NTT docomo

SH-05D

docomo STYLE series

Introduction

Thank you for purchasing "SH-05D". Before use of SH-05D, make sure that you read this manual to ensure proper operation.

Explanation for operation of SH-05D

Other than this manual, "Guide" (contained in the FOMA terminal) or "Manual (detailed edition)" (PDF file) explains how to operate SH-05D.

■ **"Manual" (this manual)**
   Explanation for contents displayed on the screen or operation of basic function

■ **"Guide" (in Japanese only) (contained in the FOMA terminal)**
   Explanation for the outline and operation of frequently-used function
   From SH-05D　In the Normal menu, [Tool] ▶ [Guide] ▶ select an item

■ **"Manual (detailed edition)" (in Japanese only) (PDF file)**
   Explanation for the detailed information and operation of all functions
   From a PC　Download from the DOCOMO website
   http://www.nttdocomo.co.jp/support/trouble/manual/download/index.html
   ※ The URL and contents are subject to change without prior notice.

Basic package

Battery Pack SH34

SH-05D terminal
(includes warranty and
Back Cover SH60)

Manual
(Japanese version)

< Wireless charger >　< Exclusive AC adapter >
Wireless Charger SH01 (includes warranty)

● For details on optional parts compatible with the FOMA terminal ☞P. 88

● The explanations in this manual are based on the case when Kisekae tool is set for the FOMA terminal color "Rose".
● The screens and illustrations in this manual are shown as examples. The actual screens and illustrations may differ.
● Note that "SH-05D" is referred to as the "FOMA terminal" in this manual.
● Reproduction of this manual in part or in whole is prohibited.
● The contents of this manual are subject to change without prior notice.

Contents

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FOMA Terminal

- SH-05D supports with W-CDMA and Wireless LAN System.
- Because the FOMA terminal relies on radio signals, it cannot be used in places with no signal (such as tunnels, underground or in buildings), in places with a weak signal or outside the FOMA service area. You may not use the FOMA terminal in the upper floors of a building even with no obstructions in sight. There may also be times when the signal is strong and you are not moving but the call is interrupted.
- Because the FOMA terminal uses electrical signals, it is possible for a third party to listen in on a conversation. However, since the W-CDMA system automatically applies privacy to every call, a third party that tries to listen in only hears static.
- The FOMA terminal converts conversations into a digital signal and sends it to the other party over the radio. If the signal cannot be reconverted properly by such as moving to an area with a weak signal, the voice may not be heard correctly.
- Keep a separate memo and note information (e.g. phonebook, schedule, memo, record message, voice memo) stored in the FOMA terminal. DOCOMO shall not be liable for any loss of content due to a failure, repair, upgrade or other handling of the FOMA terminal.

- It is recommended to save the important data to the microSD Card. If you own a PC, you can also transfer and store the information such as a phonebook, mail and schedule to your PC using DOCOMO keitai datalink.
- The user hereby agrees that the user shall be solely responsible for the result of the use of SSL/TLS. Neither DOCOMO nor the certifier as listed herein makes any representation and warranty as for the security in the use of SSL/TLS. In the event that the user shall sustain damage or loss due to the use of SSL/TLS, neither DOCOMO nor the certifier shall be liable for any such damage or loss.
  Certifier: VeriSign Japan K.K., Cybertrust Japan Co., Ltd., GlobalSign K.K., RSA Security Japan Ltd., SECOM Trust Systems Co., Ltd., Comodo CA Ltd., Entrust, Inc., Go Daddy, Inc.
- The FOMA terminal supports the FOMA Plus-Area and the FOMA HIGH-SPEED area.

Unlocking SIM card

The FOMA terminal can unlock the SIM card. Unlock the SIM card to use non-DOCOMO SIM cards.
- SIM card can be unlocked at a docomo Shop.
- Commission is incurred separately for unlocking SIM card.
- When using non-DOCOMO SIM card, some services and functions are unavailable. DOCOMO shall not be liable for guaranteeing operation of the FOMA terminal.
- For details on unlocking SIM card, refer to DOCOMO website.

What You Can Do with SH-05D

docomo Palette UI ☞P. 37
MyFACE
You can freely paste MyFACE contents which display various information on the left and the right of the stand-by display. The MyFACE information is updated periodically and you can get a new information. Also, you can download and add your favorite MyFACE contents from the site, and switch and delete the contents easily.
Shortcut
You can freely paste a shortcut at the bottom of the stand-by display. You can easily access your favorite functions and contents by pasting their shortcut. Also, you can easily group and switch the shortcuts.

Guide (in Japanese only) ☞P. 38
Guide is a convenient function which allows you to check an operation method of function on the FOMA terminal. You can search immediately without a manual.

eco mode ☞P. 43
eco mode is a function to conserve battery power by adjusting display brightness etc. Also, eco mode can be set to ON automatically or a function to limit can be selected according to battery level and the set time period.

Shabette-Kensaku ☞P. 74
Shabette-Kensaku is a function to perform i-mode search by voice. By speaking the keywords you want to search (words, station name, address, etc. you are interested in) while [Speak keyword in Japanese] is displayed, you can perform the i-mode search.

Waterproof/Dust-proof function ☞P. 22
The FOMA terminal is waterproof and dust-proof.
You can call or watch 1Seg programs in the rain, in a bathroom, at a poolside, etc. Also, rinse off dirt from the FOMA terminal with tap water.
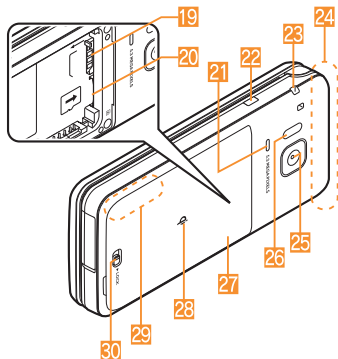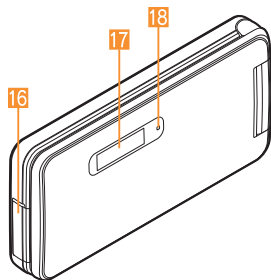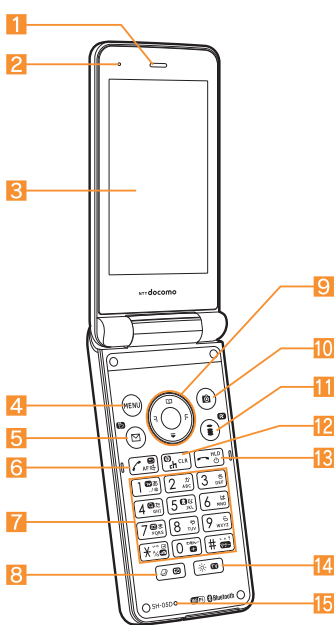
Charging by just putting on ☞P. 29
You can charge the battery pack easily by just putting the FOMA terminal/battery pack on the accompanying wireless charger.

Bright mode ☞P. 44
To make the screen easy to see even under the sunlight, the bright mode displays the display brightly and clearly.

Part Names and Functions

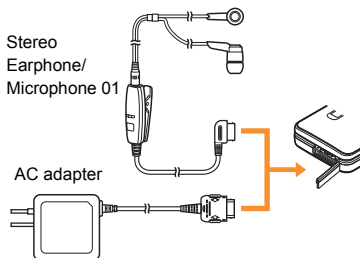● Key illustrations may look different from actual keys.

1 Earpiece

2 Air vent
● A vent to remove excess air from the FOMA terminal.

3 Main display (☞P. 33)

4 ▣: MENU/Operation guidance key (☞P. 35, P. 41)

5 ▣: Mail/Operation guidance key (☞P. 35, P. 55)

6 ⌒: Start/Hands-free key (☞P. 49)

7 1 to 9, ✳, 0 and ♯: Dial/Character entry keys

8 ▣: Multi/VeilView key (☞P. 41)

9 ✿⊙: Multi-guide key (☞P. 35)

10 ▣: Camera/Operation guidance key (☞P. 35, P. 64)

11 ⓘ (ℤ): i-mode/Operation guidance key (☞P. 35, P. 59)

12 CLR (ch): i-Channel/Clear key (☞P. 62)
● Displays the channel list.
● Returns to the previous screen.

13 ☏: Power/End key (☞P. 31)
● Press for at least 2 seconds to turn the power on/off.
● Use to end the function being activated and return to stand-by display.

14 ☀: Bright/TV key (☞P. 44)
● Activates the bright mode.
● Activates 1Seg.

15 Mouthpiece/Microphone

16 External connector terminal
● Integrated terminal to use for charging and connecting the earphone/microphone, etc.

17 Sub display (☞P. 34)

18 Called/Charging LED
● Flashes while receiving a call etc.
● Illuminates while charging.
● Illuminates/Flashes while activating the camera/shooting with the camera.

19 docomo mini UIM card slot (☞P. 28)

20 microSD Card slot (☞P. 79)

21 Speaker

22 ▯: Side key
● Use to shoot still pictures or moving pictures.

23 Strap hole

24 FOMA antenna*

25 Camera
- Use to shoot still pictures or moving pictures.

26 Infrared port (☞P. 80)

27 Back cover (☞P. 23)

28 Φ mark
- When charging, place the FOMA terminal slowly so that Φ mark of the wireless charger faces that of the FOMA terminal.

29 Bluetooth/Wi-Fi antenna*

30 Back cover lever (☞P. 23)

* The antenna is built in the terminal. Covering the antenna area with your hand may influence the quality.

- The 1Seg antenna is built in the terminal. The whole FOMA terminal works as the antenna.

Precautions (Always follow these directions)

- Before use, read these "Precautions" carefully and use your FOMA terminal properly.
  Keep this manual in a safe place for future reference.
- These precautions contain information intended to prevent bodily injury to the user and to surrounding people, as well as damage to property, and must be observed at all times.

The following symbols indicate the different degrees of injury or damage that may occur if information provided is not observed and the FOMA terminal is used improperly.

⚠ **Danger**	**This symbol indicates that "death or serious bodily injury may directly and immediately result from improper use".**
⚠ **Warning**	**This symbol indicates that "death or serious bodily injury may result from improper use".**
⚠ **Caution**	**This symbol indicates that "minor injury and/or property damage may result from improper use".**

The following symbols indicate specific directions.

⊘ Don't	**Indicates a prohibited action.**
🔧⊘ No disassembly	Indicates not to disassemble the device.
✋⊘ No wet hands	Indicates not to handle the device with wet hands.
⊘ No liquids	Indicates not to use the device near water or get it wet.

❗ Instruction	**Indicates that instructions specified are compulsory (must be followed).**
🔌 Unplug	Indicates that the power cord must be unplugged from the outlet.

"Precautions" is explained in the following six sections.

Handling the FOMA terminal, battery pack, adapters, wireless charger, and docomo mini UIM card (general)

⚠ **Danger**

⊘ Don't	**Do not use, store or leave the equipment in locations subject to high temperatures (near a fire or heating unit, in a kotatsu, under direct sunlight, inside a vehicle on a hot day, etc.).**

May cause fires, burns or bodily injury.

⊘ Don't	**Do not place the equipment inside cooking appliances such as microwave ovens or pressure cookers.**

May cause fires, burns, bodily injury or electric shock.

🔧⊘ No disassembly	**Do not attempt to disassemble or modify the equipment.**

May cause fires, burns, bodily injury or electric shock.

⊘ No liquids	**Do not get the equipment wet with water, drinking water, pet urine, etc.**

May cause fires, burns, bodily injury or electric shock.
Refer to the following for details on waterproofness.
☞ "Waterproof/Dust-proof function" on P. 22

❗ Instruction	**Use only the battery packs and adapters specified by NTT DOCOMO for use with the FOMA terminal.**

May cause fires, burns, bodily injury or electric shock.

⚠ Warning

🚫 **Do not subject the equipment to strong force or impacts or throw it.**
Don't

May cause fires, burns, bodily injury or electric shock.

🚫 **Do not allow conductive materials (such as metal objects and pencil lead) to come into contact with the charger terminal or external connector terminal. In addition, do not insert such objects.**
Don't

May cause fires, burns, bodily injury or electric shock.

🚫 **Do not cover or wrap the equipment with bedding, etc. when using or charging.**
Don't

May cause fires or burns.

🚫 **Do not use the FOMA terminal near high-precision electronic devices or devices that use weak electronic signals.**
Don't

May interfere with the operation of electronic devices.
Take particular care with the following devices
Hearing aids, implanted cardiac pacemakers, implanted cardioverter-defibrillators or other electronic medical equipment. Fire alarms, automatic doors, and other equipment controlled by electronic signals. If you use an implanted cardiac pacemaker, implanted cardioverter-defibrillator or other electronic medical equipment, contact the respective manufacturer or vendor to check whether the operation of the equipment is affected by signals.

❗ **Make sure to turn off the FOMA terminal and not to charge the battery in locations such as gas stations where flammable gas is generated.**
Instruction

May cause a gas explosion or fire.

❗ **If you notice anything unusual, such as an unusual odor, overheating, discoloration or deformation during use, charging or storage, immediately follow the instructions below.**
Instruction
● **Unplug the power cord from the outlet or cigarette lighter socket.**
● **Turn off the FOMA terminal.**
● **Remove the battery pack from the FOMA terminal.**

May cause fires, burns, bodily injury or electric shock.

⚠ Caution

🚫 **Do not leave the equipment on unstable surfaces, such as on a wobbling table or sloped surface.**
Don't

May fall and cause injury.

🚫 **Do not store the equipment in locations that are subject to humidity, dust or high temperatures.**
Don't

May cause fires, burns or electric shock.

❗ **If being used by a child, have a guardian teach him/her the proper handling procedures. In addition, check that the child is using the equipment as directed.**
Instruction

May result in bodily injury.

❗ **Keep the equipment out of the reach of young children.**
Instruction

A young child may swallow the equipment or suffer other bodily injury.

Instruction **Be very careful when using the FOMA terminal connected to adapters repeatedly or for a long time.**

The FOMA terminal, battery pack or adapters may become warm if i-αppli, videophone or 1Seg is used for a long time while charging. Touching high temperature areas for a long time may cause skin irritations, itchiness or low-temperature burn in some people.

Handling the FOMA terminal

⚠ Warning

Don't **Do not aim the infrared port towards the eyes.**

May cause eye injury.

Don't **Do not aim the infrared port towards home electric appliances with an infrared device during Ir communication.**

May interfere with the operation of infrared devices and cause an accident.

Don't **Do not allow water or other liquids, metal, flammable material or other foreign objects to enter the docomo mini UIM card or microSD Card slot on the FOMA terminal.**

May cause fires, burns, bodily injury or electric shock.

Instruction **Turn off the FOMA terminal in areas where the use of mobile phones is prohibited, such as in aircraft or hospitals.**

May interfere with the operation of electronic devices and electronic medical equipment.
In addition, if auto power on function is set to on, disable this function before turning off your mobile phone.
Follow the instructions given by the respective medical facilities regarding the use of mobile phones on their premises.
Actions such as using a mobile phone aboard aircraft are prohibited and punishable by law.
However, follow the instructions on use of the FOMA terminal given by the airline if the mobile phone can be used aboard aircraft by setting the mobile phone such as setting it not to emit radio wave.

Instruction **Keep the FOMA terminal away from the ears during a call in which hands-free is set or while the ring tone is ringing.**
When you attach the earphone/ microphone, etc. to the FOMA terminal to play games, music, etc., do not make the volume too loud.

Excessive high volume may damage your hearing.
Also, it may prevent you from hearing the ambient sounds and cause an accident.

Earphone Signal Level
The maximum output voltage for the music player function, measured in accordance with EN 50332-2, is 34.0 mV.

Instruction **If you have a weak heart, take extra precautions when setting functions such as the vibrator and ring tone volume for incoming calls.**

May have harmful effects on your heart.

If you are using electronic medical equipment, contact the respective manufacturer or vendor to check whether the operation of the equipment is affected by signals.

Instruction

May interfere with the operation of electronic medical equipment, etc.

In case that the display part or camera lens is damaged, make sure to pay attention to a broken glass and the exposed inside of the FOMA terminal.

Instruction

The surfaces of the display part and the camera lens are covered by plastic panels so as to minimize the possibility of glass scattering. However, touching the broken or exposed parts may cause injury.

⚠ Caution

Do not swing the FOMA terminal by its strap etc.

Don't

May hit you or others around you, resulting in bodily injury.

Do not use the damaged FOMA terminal.

Don't

May cause fires, burns, bodily injury or electric shock.

If the display is broken and internal substances such as liquid crystal then leaks, do not get the liquid on your skin (face, hands, etc.).

Don't

May result in loss of eyesight and harm to your skin.

If internal substances such as liquid crystal come into contact with your eyes or mouth, immediately rinse your eyes or mouth with clean water and see a doctor.

If the liquid comes into contact with your skin or clothes, immediately wipe it off with alcohol, and wash with water and soap.

If you use the FOMA terminal in an automobile, contact the automobile manufacturer or vendor to check whether the operation of the electronic equipment is affected by signals.

Instruction

May interfere with the operation of electronic equipment in some vehicle models. In such cases, stop using the FOMA terminal.

Use of the FOMA terminal may cause skin irritations such as itchiness, rashes or eczema in some people. If this occurs, immediately stop using the FOMA terminal and seek medical treatment.

Instruction

For details on materials of each part ☞ "Material list" on P. 14

Do not close the FOMA terminal on your fingers or objects such as the strap.

Instruction

May result in bodily injury.

Look at the display in a well-lit place, keeping a certain distance from the screen.

Instruction

Otherwise, eyesight may be decreased.

Handling battery pack

Check the type of battery using the information printed on the battery pack label.

Label	Battery type
Li-ion00	Lithium-ion

⚠ Danger

🚫 Don't
Do not touch terminals with metallic objects such as wires. In addition, do not carry or store the battery pack with metallic necklaces, etc.
The battery pack may catch fire, explode, overheat or leak.

🚫 Don't
Check that the battery pack is facing the correct direction before you attach it to the FOMA terminal. If you are having difficulty fitting the battery pack to the FOMA terminal, do not use excessive pressure to force the battery into place.
The battery pack may catch fire, explode, overheat or leak.

🚫 Don't
Do not throw the battery pack into a fire.
The battery pack may catch fire, explode, overheat or leak.

🚫 Don't
Do not puncture, hit with a hammer or step on the battery pack.
The battery pack may catch fire, explode, overheat or leak.

❗ Instruction
If the battery fluid, etc. comes into contact with your eyes, do not rub your eyes but immediately rinse your eyes with clean water. Then seek prompt medical treatment.
May result in loss of eyesight.

⚠ Warning

🚫 Don't
If any trouble such as a deformation or scratches caused by a drop is found, never use it.
The battery pack may catch fire, explode, overheat or leak.

❗ Instruction
If the battery pack leaks, emits an unusual odor, etc., immediately stop use and move it away from any flame or fire.
The battery fluid is flammable and could ignite, causing a fire or explosion.

❗ Instruction
Prevent your pet from biting the battery pack.
The battery pack may catch fire, explode, overheat or leak.

⚠ Caution

🚫 Don't
Do not dispose of used battery packs in ordinary garbage.
May cause fires or damage to the environment. Place tape over the terminals to insulate unnecessary battery packs, and take them to a docomo Shop, retailer or institution that handles used batteries in your area.

Do not use or charge a wet battery pack.

Don't

The battery pack may catch fire, explode, overheat or leak.

If the battery fluid, etc. leaks, do not get the liquid on your skin (face, hands, etc.).

Instruction

May result in loss of eyesight and harm to your skin. If the liquid, etc. comes into contact with your eyes, mouth, skin or clothes, immediately rinse them with clean water.
If the liquid comes into contact with your eyes or mouth, see a doctor immediately after rinsing your eyes or mouth.

Handling adapters and wireless charger

⚠ Warning

Do not use if the cord of the adapter or of the wireless charger is damaged.

Don't

May cause fires, burns or electric shock.

Never use the AC adapter or the wireless charger in humid locations such as a bathroom.

Don't

May cause fires, burns or electric shock.

The DC adapter should only be used in negative grounded vehicles. Never use this adapter in positive grounded vehicles.

Don't

May cause fires, burns or electric shock.

Do not touch adapters or the wireless charger if you hear thunder.

Don't

May cause electric shock.

Take care not to short-circuit the charging terminal when it is connected to an outlet or cigarette lighter socket. Also, take care not to allow any part of your body (hands, fingers, etc.) to come into contact with the charging terminal.

Don't

May cause fires, burns or electric shock.

Do not place heavy objects on the cord of the adapter or of the wireless charger.

Don't

May cause fires, burns or electric shock.

When plugging/unplugging the AC adapter into/from the outlet, do not allow metallic straps or other metallic objects to come into contact with the terminal.

Don't

May cause fires, burns or electric shock.

Do not place foreign objects between the wireless charger and the FOMA terminal.

Don't

May cause overheat or burns or catch fire.

Do not paste stickers such as aluminium or metallic objects on the wireless charger.

Don't

May cause overheat or burns or catch fire.

Do not connect the voltage converter for overseas travel (Travel converter) to the wireless charger.

Don't

May cause overheat or electric shock or catch fire.

Do not handle the cord of the adapters, the wireless charger or the outlet with wet hands.

No wet hands

May cause fires, burns or electric shock.

Do not charge any parts wet with water with the wireless charger.

No liquids

May cause fires, burns, bodily injury or electric shock.

Always use the specified power supply and voltage.
When using overseas, use the AC adapter that is available overseas.

Instruction

Using the incorrect voltage may cause fire, burns or electric shock.
AC adapter: 100V AC
DC adapter: 12/24V DC (for negative grounded vehicles only)
AC adapter available overseas: 100 to 240V AC (Connect only with household AC outlet)

If the fuse in the DC adapter blows, always replace it with a fuse of the specified type.

Instruction

May cause fires, burns or electric shock. Refer to the respective manuals for information on the correct fuse specifications.

Wipe off any dust on the power plug.

Instruction

May cause fires, burns or electric shock.

Fully plug the AC adapter or the power plug into the outlet.

Instruction

May cause fires, burns or electric shock.

Always grasp the adapters when unplugging the power plug from the outlet or cigarette lighter socket. Do not forcibly pull by the cord of the adapter or of the wireless charger.

Instruction

May cause fires, burns or electric shock.

If you have an implanted cardiac pacemaker or an implanted cardioverter-defibrillator, consult a doctor about the use of the wireless charger.

Instruction

Electromagnetic signals may have harmful effects on the operation of implanted cardiac pacemakers and implanted cardioverter-defibrillators.

Unplug the power plug from the outlet or cigarette lighter socket when not using for a long time.

Unplug

May cause fires, burns or electric shock.

Should water or other liquids enter the equipment, remove the power plug from the outlet or cigarette lighter socket immediately.

Unplug

May cause fires, burns or electric shock.

Always unplug the power plug from the outlet or cigarette lighter socket before cleaning the adapters.

Unplug

May cause fires, burns or electric shock.

Handling docomo mini UIM card

⚠️ **Caution**

Be careful with the cutting surface when detaching the docomo mini UIM card.

Instruction

May cause bodily injury.

Handling near electronic medical equipment

The precautions detailed here conform to the guidelines drawn up by the Electromagnetic Compatibility Conference Japan, regarding the protection of electronic medical equipment from signals emitted by mobile phones.

⚠ Warning

Observe the following in hospitals or other medical facilities.

Instruction

- Do not take your FOMA terminal into operating rooms, ICUs (Intensive Care Units) or CCUs (Coronary Care Units).
- Turn off your FOMA terminal inside hospital wards.
- Turn off your FOMA terminal even when you are in an area outside hospital wards, such as a hospital lobby, since electronic medical equipment may be in use nearby.
- Where a medical facility has specific instructions prohibiting the carrying and use of mobile phones, observe those instructions strictly.
- If auto power on function is set to on, disable this function before turning off your mobile phone.

Turn off your FOMA terminal in crowded places such as rush-hour trains in case somebody nearby is using an implanted cardiac pacemaker or implanted cardioverter-defibrillator.

Instruction

Electromagnetic signals may have harmful effects on the operation of implanted cardiac pacemakers and implanted cardioverter-defibrillators.

If you have electric medical equipments such as an implanted cardiac pacemaker or an implanted cardioverter-defibrillator, always carry or use your FOMA terminal at least 22 cm away from your implant.

Instruction

Electromagnetic signals may have harmful effects on the operation of the electric medical equipments.

Patients receiving medical treatment away from a hospital or medical facility (e.g. home treatment) who are using electronic medical equipment other than implanted cardiac pacemakers or implanted cardioverter-defibrillators should consult the respective manufacturers for information regarding the effects of signals on the equipment.

Instruction

Electromagnetic signals may have harmful effects on the operation of electronic medical equipment.

Material list

Terminal/Back cover/Battery pack

Part		Material/Surface treatment
Surface of FOMA terminal	Display side	PC, PMMA resin/Hard coating
	Back of display side	PMMA resin/Hard coating
	Side surface of display side, Surrounding section of keyboard side	Polyamide resin with glass/UV coating
	Left side, Right side, Back of keyboard side	PC+ABS-GF20 resin/UV coating
	Keyboard side	UV cured resin
	Hinge section	ABS resin/UV coating

Part		Material/Surface treatment
Camera window		PMMA resin/ Hard coating
Back cover	Back cover	PC+ABS-GF20 resin/UV coating
	Lever	POM resin
	Gasket	EPDM/Low friction coating
Protective cover	Top of keyboard side	PET resin/UV cured resin
	Bottom of keyboard side	Urethane resin
	Hinge section	ABS resin/UV coating
Operation key (including ornament)		UV cured resin
Side Key		ABS resin/UV coating
External connector terminal	External connector terminal	SUS/Nickel plating
	Cover	PC resin, Elastomer resin/UV coating
	Gasket	EPDM/Low friction coating
Infrared port		ABS resin
docomo mini UIM card slot	Lever	Nylon 46
	Metal section	SUS
Battery storage side		Polyamide resin with glass
Battery storage section	Surrounding section of battery storage section	Polyamide resin with glass
	Screw	SUS/Passivation coating
Battery terminal	Battery terminal connector	LCP
	Battery terminal	Copper alloy/ Gold plating

Part		Material/Surface treatment
Battery pack	Battery pack	PC resin/Spark erosion
	Terminal section	Copper alloy/Full surface nickel with plating base, Gold plating

Wireless charger

Part	Material/Surface treatment
Main body	PC/Surface texturing
Charging assist button	PC/Surface texturing
Terminal of AC adapter	PA
Screw	SWCH/Zn5 bk/ CM2 (Black)
Cord of AC adapter	TPE
AC adapter	PC
Power plug of AC adapter	Brass/Ni plating
Connector of AC adapter (Metal section)	Brass/Ni plating
Connector of AC adapter (Surrounding section of metal section)	TPE
Ferrite core	TPE

Handling Precautions

General notes

● **SH-05D is waterproof/dust-proof, however, do not allow water to seep or dust to get in the FOMA terminal and do not allow accessories or optional parts to get wet or do not allow dust to adhere.**
The battery pack, adapters, the wireless charger and the docomo mini UIM card are not waterproof/dust-proof. Do not use in humid locations such as a bathroom and do not get wet by raining, etc. Also, when you have the handset close to your body, humidity from sweating causes corrosion inside and leads to malfunction. Note that if problem is found to be due to moisture, handset and parts are not covered by warranty and in some cases may be irreparable. Even when repairs are possible, repair charges will be incurred, since damage is not covered by warranty.

● **Clean only with a soft and dry cloth (such as the type used for eyeglasses).**
　• Forceful rubbing of the display with a dry cloth may scratch the display surface.
　• Note also that the display coating may stain if moisture or soiling is left on the surface for a long period.
　• Never use chemicals such as alcohol, thinners, benzene or detergents, as these agents may erase the printing on the handset or cause discoloration.

● **Occasionally clean terminals with a dry cotton swab, etc.**
Unclean terminals may result in poor connections and loss of power. Keep terminal clean with a dry cotton swab, etc.
Take care of the terminal while cleaning it.

● **Do not place the handset near an air conditioning vent.**
Condensation formed due to rapid changes in temperature may cause internal corrosion and lead to malfunction.

● **Do not apply excessive force to the FOMA terminal and battery pack when using them.**
Carrying the handset in a tightly packed bag or sitting on the handset in your pocket may cause a damage to display, other internal components or battery pack or result in malfunction.
Keeping an external connector device plugged into the external connector terminal (earphone/microphone terminal) may cause a damage to the connector or result in malfunction.

● **Do not rub or scratch the display with metal, etc.**
May scratch the handset and cause malfunction or damage.

● **Read the respective manuals supplied with the battery pack and adapters carefully.**

Notes about the FOMA terminal

● **Avoid using the handset in extremely high or low temperatures.**
Use the FOMA terminal within the range of a temperature between 5°C and 40°C (for temperatures of 36°C or higher, such as in a room with a bath, limit usage to a short period of time) and a humidity between 45% and 85%.

● **Using the handset close to landline phones, TVs or radios may have harmful effects on the operation of such equipment. Move as far away as possible from such items before use.**

● **Keep a separate memo and note information stored in the FOMA terminal.**
DOCOMO shall not be liable for any loss of content.

- **Do not drop or otherwise subject the FOMA terminal to severe impact.**
  May damage the handset and cause malfunction.
- **When connecting an external connector device to the external connector terminal (earphone/microphone terminal), do not put it in obliquely or do not pull it while it is plugged in.**
  May damage the handset and cause malfunction.
- **Do not close the FOMA terminal on strap, etc.**
  May damage the handset and cause malfunction.
- **The FOMA terminal becomes warm during using or charging but this is not a malfunction.**
- **Do not leave the camera in direct sunlight.**
  May cause discoloration or burn-in.
- **Use the FOMA terminal with the external connector terminal cover closed.**
  Dust, water and others enter inside and cause a malfunction.
- **Do not use the FOMA terminal without the back cover.**
  May detach the battery pack or cause malfunction or damage.
- **Do not cover the surface of the display or keys with an extremely thick sticker.**
  May cause malfunction, damage or error.
- **While using a microSD Card, do not remove the card or turn off the FOMA terminal.**
  May cause data loss or malfunction.
- **Never place a magnetic card near the FOMA terminal or pinch it.**
  The stored magnetic data in cash cards, credit cards, telephone cards, floppy disks, etc. may be erased.

- **Never place magnetized items near the FOMA terminal.**
  Putting highly magnetized items closer may cause an error.
- **Do not decorate the FOMA terminal with stickers etc.**
  Charging with the wireless charger may become unavailable.

Notes about battery pack

- **Battery pack is a consumable product.**
  Though usage time varies with use, change battery if battery level is extremely low even after fully charged. Purchase a specified new battery pack.
- **Charge battery in areas where ambient temperature is between 5°C and 35°C.**
- **The usage time for a battery pack depends on the usage and deterioration of battery pack.**
- **Depending on usage, the battery pack may swell as it approaches the end of its service life but this will not cause problems.**
- **Note the followings when the battery pack is stored.**
  - The storage with the battery pack fully charged (immediately after charging is completed)
  - The storage with no battery level (cannot turn the FOMA terminal on)

  May lower the performance or shorten the life of the battery pack.
  The second level of the battery pack icon or approximately 40% is recommended as the battery level for storage.

Notes about adapters and wireless charger

● **Charge battery in areas where ambient temperature is between 5°C and 35°C.**
● **Do not charge battery pack in the following locations.**
  ■ Areas with high humidity or dust or in areas exposed to strong vibrations
  ■ Close to landline phones, TVs, radios, etc.
● **Adapters or the wireless charger may become warm during charging but this is not a malfunction.**
● **Do not use DC adapter to charge battery when the car engine is not running.**
  May cause car battery to run down.
● **When using an outlet with a feature to prevent the plug from being removed accidentally, follow instructions in the outlet user's guide.**
● **Do not subject to strong force or impacts. Also, do not disfigure the charger terminals.**
  May cause a malfunction.
● **Do not use the wireless charger with a blanket etc. covering it.**
● **Connect only the specified devices and exclusive AC adapter to the wireless charger.**
● **Do not charge with metallic straps or other metallic objects inserted between the FOMA terminal and the wireless charger.**
● **Do not place the FOMA terminal on the wireless charger with the adapters connected to the FOMA terminal.**
● **Never place a magnetic card etc. near the wireless charger.**
  The stored magnetic data in cash cards, credit cards, telephone cards, floppy disks, etc. may be erased.

● **Never place magnetized items near the wireless charger.**
  Putting highly magnetized items closer may cause an error.

Notes about docomo mini UIM card

● **Do not apply unnecessary force when inserting/removing the docomo mini UIM card.**
● **Customer is responsible for malfunctions arising from inserting docomo mini UIM card into a different IC card reader/writer.**
● **Always keep IC area clean.**
● **Clean only with a soft and dry cloth (such as the type used for eyeglasses).**
● **Keep a separate memo and note information stored in the docomo mini UIM card.**
  DOCOMO shall not be liable for any loss of content.
● **To protect the environment, please take any unnecessary docomo mini UIM cards to a docomo Shop or retailer.**
● **Do not damage, touch haphazardly or short-circuit the IC.**
  May cause data loss or malfunction.
● **Do not drop or otherwise subject the docomo mini UIM card to severe impact.**
  May cause a malfunction.
● **Never bend the docomo mini UIM card or place heavy objects on it.**
  May cause a malfunction.
● **Do not insert the docomo mini UIM card to the FOMA terminal with a label or sticker attached on the card.**
  May cause a malfunction.

Notes on using Bluetooth® function

● **The FOMA terminal supports the security function that meets the Bluetooth specification for the security during communication using Bluetooth function. However, the security may not be sufficient depending on the configuration. Take care of the security while making communication using Bluetooth function.**

● **Even if any leak of data or information occurs while making communication using Bluetooth function, DOCOMO shall not be liable for any loss of content.**

● **Radio frequencies**
The radio frequencies the Bluetooth function of the FOMA terminal uses are as follows.

ⓐ   ② ③

2.4FH1

④

① 2.4: This radio equipment uses the 2.4 GHz band.
② FH: The modulation system is the FH-SS system.
③ 1: The estimated coverage distance is 10 m or less.
④ ▮▮▮▮▮: All radio frequencies between 2400 MHz and 2483.5 MHz are used and the frequencies for mobile object identifiers shall not be avoided.

● **Cautions on using Bluetooth devices**
Bluetooth operates at radio frequencies assigned to the in-house radio stations for a mobile object identifier that have to be licensed and is used in production lines of a factory, specific unlicensed low power radio stations, and amateur radio stations (hereafter, referred to as "another radio station") in addition to industrial, scientific, medical devices or home electric appliances such as microwave ovens.
1. **Before using the FOMA terminal, make sure that "another radio station" is not operating nearby.**
2. **If radio interference between the FOMA terminal and "another radio station" occurs, avoid interference by moving immediately to another place or "turning off the power".**
3. **Contact the number listed in "General Inquiries" on the back of this manual for further details.**

Notes about wireless LAN (WLAN)

● **Wireless LAN (WLAN) uses radio waves to communicate information. Therefore, it has an advantage of freely connecting to the LAN within the service area. On the other hand, if security setting is not set, it is possible for a malicious third party to intercept the communication contents or hack. It is recommended to set security setting at your own risk and judgement.**

● **Wireless LAN**
Do not use wireless LAN near magnetic devices such as electric appliances or AV/OA devices or in radio waves.
  • Magnetism or radio waves may increase noises or disable communications (especially when using a microwave oven).
  • When used near TV, radio, etc., reception interference may occur or channels on the TV screen may be disturbed.
  • If there are multiple wireless LAN access points nearby and the same channel is used, search may not work correctly.

● **Radio frequencies**
The radio frequencies the WLAN-installed devices use are indicated on the battery storage section. The following are the descriptions:
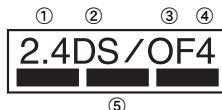
① 2.4: This radio equipment uses the 2400 MHz band.
② DS: The modulation system is the DS-SS system.
③ OF: The modulation system is the OFDM system.
④ 4: The estimated coverage distance is 40 m or less.
⑤ ▮▮▮ ▮▮▮ ▮▮▮: All radio frequencies between 2400 MHz and 2483.5 MHz are used and the frequencies for mobile object identifiers shall not be avoided.

Available channels vary depending on the country. For use in an aircraft, contact the airline beforehand. There are restrictions on the use of wireless LAN in some countries or regions such as France. If you intend to use Wi-Fi overseas, check the local laws and regulations beforehand.

- **Cautions on using 2.4 GHz devices**
  WLAN-installed devices operate at radio frequencies assigned to the in-house radio stations for a mobile object identifier (radio stations requiring a license) used in production lines of a factory, specific unlicensed low power radio stations (radio stations requiring no license), and amateur radio stations (radio stations requiring a license) in addition to industrial, scientific, medical devices or home electric appliances such as microwave ovens.
  1. **Before using this device, make sure that the in-house radio stations for a mobile object identifier, specific unlicensed low power radio stations and amateur radio stations are not operating nearby.**
  2. **If the device causes harmful radio interference to the in-house radio stations for a mobile object identifier, immediately change the radio frequency or stop use, and contact the number listed in "General Inquiries" on the back of this manual for crosstalk avoidance, etc. (e.g. partition setup).**
  3. **If the device causes radio interference to specific unlicensed low power radio stations for a mobile object identifier or amateur radio stations, contact the number listed in "General Inquiries" on the back of this manual for further details.**

Caution

- **Never use the FOMA terminal that is modified. Using a modified device violates the Radio Law.**
  The FOMA terminal has acquired the certification of conformity with technical regulations for the specified radio station based on the Radio Law, and the "Technical Conformity Mark ⊕ " is printed on the model nameplate of the FOMA terminal as a proof.
  If the screws of FOMA terminal are removed and a modification is given to the inside, the certification of conformity with technical regulations will become invalid.
  Never use the FOMA terminal without the valid certification. Doing so violates the Radio Law.
- **Be careful when using the FOMA terminal while driving a motor vehicle.**
  Using a mobile phone in hand while driving is regarded as a punishable act.
  However, the punishment has no application in some cases such as when rescuing sick and injured people or maintaining public safety.
- **Do not change the basic software improperly.**
  Repairs may be refused when improper changes of basic software are found.

Waterproof/Dust-proof function

SH-05D is waterproof to IPX5[1] and IPX7[2] standards, and dust-proof to IP5X[3] standards if the external connector terminal cover is securely closed as well as the back cover is attached and locked.

[1] IPX5 means that phone keeps functioning after being subjected to a jet flow (approximately 12.5 liters/min) discharged from a nozzle (inner diameter: 6.3 mm), from all directions (approximately 3 m from the handset) for 3 minutes or more.

[2] IPX7 means that SH-05D phone keeps functioning after it is slowly submerged to depth of 1 m in static tap water at room temperature, left there for approximately 30 minutes and then taken out.

[3] IP5X means the level of protection. Phone keeps functioning in safety after it is left in the device containing dust (diameter: 75 μm or smaller) for 8 hours, agitated and then taken out.

What you can do with waterproof/dust-proof function of SH-05D

● You can call or watch 1Seg programs without using an umbrella in the rain (for rainfall of approximately 20 mm per hour).

● You can rinse off dirt from the FOMA terminal. Wash the FOMA terminal with low-pressure water flow (6 liters/min or lower and tap water at room temperature (between 5°C and 35°C)), holding it approximately 10 cm below faucet or shower head. Wash by using only your hands, not a brush or sponge, with the back cover attached and locked, and the external connector terminal cover held in position. Drain the handset before use (☞P. 26).

● You can use the FOMA terminal at a poolside. Do not throw water in a swimming pool on the FOMA terminal or soak the FOMA terminal in the water of a swimming pool.

● You can use the FOMA terminal in a bathroom. Do not soak the FOMA terminal in the bathtub.

Things to keep in mind

To maintain waterproof/dust-proof performance, check the followings.

● Securely close the external connector terminal cover and the back cover. Be careful not to apply excessive force on the rubber gasket when opening and closing them.

● Make sure that the external connector terminal cover and the back cover are completely closed without floating.

● Before using, make sure that the back cover lever is at the LOCK position.

● To maintain waterproof/dust-proof performance, the FOMA terminal has the external connector terminal cover and the back cover that allow you to close securely. May cause injuries to your nails or fingers if you try to open them forcibly.

Opening external connector terminal cover

Hook a finger on the slot to open.

Slot
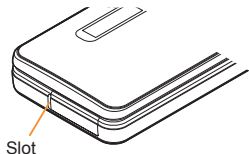
Closing external connector terminal cover

Push and close securely in the direction of the arrow so that gaps are not left between the FOMA terminal and the external connector terminal cover.

Attaching back cover

1. **Insert the tab of the top of the back cover into the FOMA terminal slot (█1), attach it in the direction of the arrow (█2) and securely push down with both hands (█3)**
   - The back of the back cover has also eight tabs to insert the back cover. Securely push tab areas down with both hands so that gaps are not left between the FOMA terminal and the back cover.

Slot

Tab

█1

Back cover

█2

█3

Securely push tab areas down with both hands
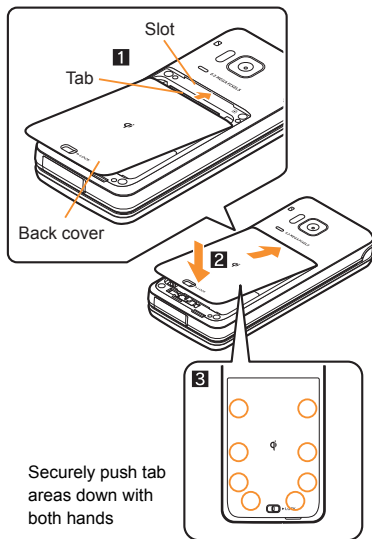
2 **Slide the back cover lever in the direction of the arrow (4) to lock**

Lever

4
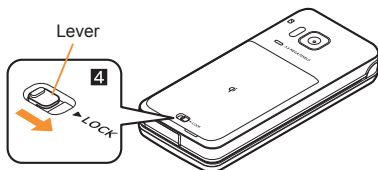
▶LOCK

Removing back cover

1 **Slide the back cover lever in the direction of the arrow (1) to unlock and remove the back cover (2)**

● The FOMA terminal has a slot to remove the back cover. Securely hold the FOMA terminal as shown in the illustration to prevent excessive force on the back cover and hook a nail on the slot and remove the back cover upward.

1

2

▶LOCK

Slot
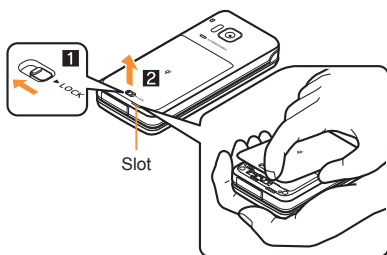
● To maintain waterproof/dust-proof performance, replacement of parts is required every 2 years regardless of whether the FOMA terminal appears normal or abnormal. DOCOMO replaces the parts as a chargeable service. Bring the FOMA terminal to a repair center that DOCOMO specifies.

Precautions

● When your hands or the FOMA terminal are wet, do not attach/remove the back cover or open/close the external connector terminal cover.

● Securely lock the back cover and close the external connector terminal cover. Even a fine obstacle (one hair, one grain of sand, tiny fiber, etc.) put between contact surfaces may allow water to seep or dust to get in.

● If the FOMA terminal gets wet with water or other liquids with the external connector terminal cover or the back cover open, the liquid may get inside the terminal causing electric shocks or malfunction. Stop using the FOMA terminal, turn off the power, remove the battery pack and contact a repair center that DOCOMO specifies.

● The rubber gaskets of the external connector terminal cover and the back cover play an important role in maintaining waterproof/dust-proof performance. Do not remove or scratch them. Also, prevent dust from adhering to them.
If the rubber gasket of the external connector terminal cover or the back cover is damaged or deformed, replace it at a repair center that DOCOMO specifies.

- Do not insert sharp objects through external connector terminal cover and back cover gaps. It causes damage to the rubber gasket and allow water to seep or dust to get in.
- If the back cover is damaged, replace it. Water may seep inside from a damaged section causing troubles such as electric shocks or corrosion of the battery.
- Do not use the FOMA terminal underwater (including opening/closing and key operations). May cause malfunction.
- Do not apply water flow stronger than allowed (☞P. 22) (over 6 liters/min). May cause malfunction though SH-05D provides waterproof performance of IPX5.
- Do not let the FOMA terminal get wet with liquids other than water at room temperature (between 5°C and 35°C).
- Do not wash the FOMA terminal in a washing machine, etc.
- To prevent condensation, do not bring the FOMA terminal from a cold place to a bathroom, etc. without letting the FOMA terminal warmed to room temperature.
- Do not expose the FOMA terminal to extreme humidity for long periods. Avoid prolonged use in bathrooms.
- Never soak the FOMA terminal in hot spring water or water containing soap, detergent or bath powder.
- Do not soak the FOMA terminal in hot water, use it in a sauna or apply hot air (from a hair dryer, etc.) to it.
- Do not soak the FOMA terminal in seawater.
- Do not put the FOMA terminal directly on sand/dirt.
- Do not leave the FOMA terminal wet. In cold places, water may freeze and cause malfunction.
- The FOMA terminal does not float on water.
- Do not let the FOMA terminal fall. It may become scratched and cause the waterproof/dust-proof performance to degrade.

- Do not leave water on the mouthpiece, earpiece or speaker. Such water may interfere with talking.
- Accessories and optional parts are not waterproof/dust-proof. When the FOMA terminal is placed on the accompanying wireless charger, do not use it in rooms where water is regularly in use such as bathroom, shower room, kitchen, lavatory, etc. even if the exclusive AC adapter is not connected to it.

Soap/Detergent/Bath powder   Seawater   Swimming pool

Hot spring   Sand/Dirt

- DOCOMO does not guarantee actual operations under all states. Malfunctions deemed to be caused by inappropriate operation by the customer are not covered by the warranty.

Draining water when the FOMA terminal gets wet

When the FOMA terminal is wet, water may flow out after wiping it off. Drain the water following the steps below.

1 **Wipe the FOMA terminal surface with dry and clean cloth, etc.**
- If a strap is attached, dry the strap well.
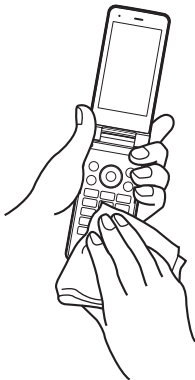
2 **Shake the FOMA terminal approximately 20 times, securely holding its hinge section, until there is no more water splattering**

To drain water off the speaker, shake the FOMA terminal with the speaker turned up
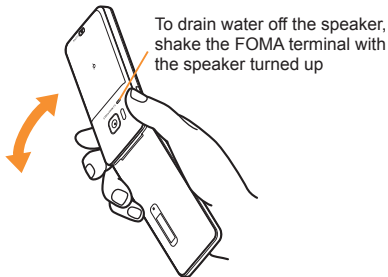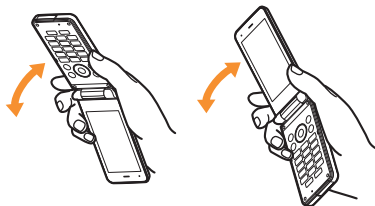
3 **Softly press dry and clean cloth, etc. against the FOMA terminal to wipe off water remaining in the mouthpiece, earpiece, speaker, keys or hinges**

● Pat the opening with cloth to remove water because there may be any water remaining in the grooves of each part.
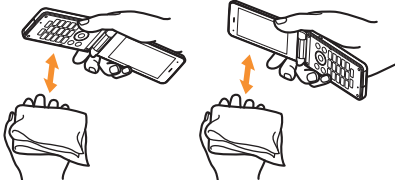
4 **Wipe off water drained from the FOMA terminal with dry and clean cloth, etc.**

● Water, if any, remaining in the FOMA terminal may ooze up after wiping off.

Charging

Accessories and optional parts are not waterproof/dust-proof. Check the followings before and after charging.

● Make sure that the FOMA terminal is not wet. If the FOMA terminal is wet or after the FOMA terminal is wet, adequately drain it and wipe off water with dry and clean cloth, etc. before placing on the wireless charger or opening the external connector terminal cover.

● When the external connector terminal cover is opened for charging, close the cover securely after charging. It is recommended that the wireless charger be used for charging to prevent water from seeping inside and dust from getting in from the external connector terminal.

● Never try to charge the battery pack when the FOMA terminal is wet.

● Do not touch accessories or optional parts with your wet hands. May cause electric shock.

● Do not use accessories or optional parts in a place subject to water. Do not use them in rooms which water is regularly in use such as bathroom, shower room, kitchen, lavatory, etc. May cause fire or electric shock.

Before Using

Inserting docomo mini UIM card

A docomo mini UIM card is an IC card that records personal information, such as phone numbers, etc.

● You cannot use the docomo mini UIM card with other than the compatible terminals and may not be able to use a part of the site and data when you change from the UIM.

● The FOMA terminal supports only docomo mini UIM card. Change the UIM at a docomo Shop.

1 **Set docomo mini UIM card into docomo mini UIM card slot with the IC (gold) side turned down (1)**

Notch

IC (gold)

● Insert docomo mini UIM card securely (2).

1　　　2

Notch
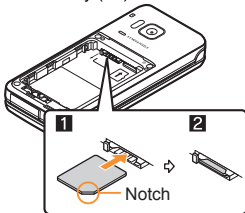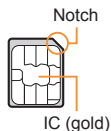
● Note that pulling forcibly or adding forces on the lever may damage it.

● Note that inserting or removing the docomo mini UIM card forcibly may damage the docomo mini UIM card.

Attaching battery pack

● Perform with the FOMA terminal turned off and closed while holding with your both hands.

● The battery pack is not waterproof/dust-proof.

1 **Remove the back cover (☞P. 24)**

2 **Attach the battery pack**

● Turn the recycle mark side of the battery pack up, match tabs and attach the battery pack.

With a recycle mark side up

Tabs
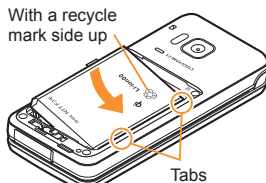
3 **Attach the back cover (☞P. 23)**

● Using unnecessary force when attaching or removing the battery pack may damage the connector terminal for the battery pack (charger terminal) on the FOMA terminal.

● Securely close the back cover. If not closed securely, the back cover may come off and the battery pack may fall out due to vibration. May damage the waterproof/dust-proof performance and allow water to seep or dust to get in.

Charging

- It is recommended that the accompanying wireless charger be used for charging to prevent water from seeping or dust from getting in caused by forgetting to close the external connector terminal cover.
- The AC adapter and wireless charger are not waterproof/dust-proof. Never try to charge the battery pack when the FOMA terminal is wet. For precautions on the waterproof/dust-proof performance when charging ☞P. 27

Charging by using wireless charger

- Compatible devices provided by docomo with ϙ mark can be charged with the wireless charger. Read the instruction manuals of the compatible devices that you are going to use.

ϙ | Products with ϙ mark conform with wireless power standard of Wireless Power Consortium (WPC).

- Part names are as followings.

Charging assist button
Charging area
Charging information
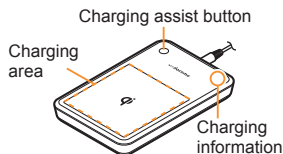
- Charging assist button is the button to move the electrical coil to the center of the charging area and start charging if the charging does not start.

1 **Insert the connector of the exclusive AC adapter into the wireless charger (**1**)**
- Insert the connector securely.

2 **Insert the power plug of the exclusive AC adapter into an outlet (**2**)**

3 **When you place the FOMA terminal on the wireless charger, charge alert is heard, charging LED and charging information illuminate and charging starts**
- Place the FOMA terminal slowly with the ϙ mark side turned down so that ϙ mark of the wireless charger faces the battery pack.

Connector

Charging LED

Charging information

100V AC outlet

Charging assist button

Exclusive AC adapter

Power plug
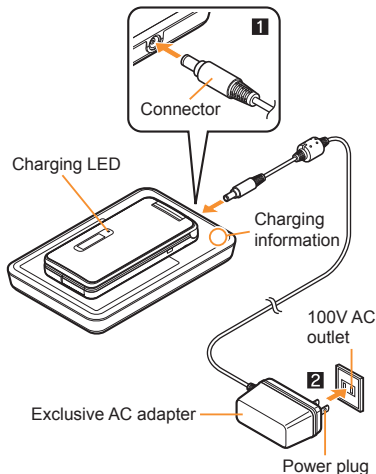
4 **When charge alert is heard after charging LED and charging information turn off, charging is complete**

● Remove the FOMA terminal from the wireless charger.

● Pull the exclusive AC adapter out of the outlet if it is not used for a long time.

● If charging does not start, remove the FOMA terminal/battery pack from the charging area and replace it on the center of the charging area after pressing the charging assist button approximately two seconds later (If the compatible device is not removed but slide, the charging assist button does not work).

● If the FOMA terminal is equipped with a cover etc., it may not be charged depending on material, thickness, etc. of the cover etc. Remove the FOMA terminal out of the cover etc. to securely charge it.

● If electronic devices are used near the wireless charger, the FOMA terminal may not be charged. When you use electronic devices, keep them at least 30 cm away from the wireless charger to use them.

● Do not move the wireless charger and the FOMA terminal/battery pack while charging.

● Do not let the vibrator activated while charging the FOMA terminal. It may move or fall due to vibrations.

● If you charge the FOMA terminal with a commercially available product with Φ mark, the handset may not receive calls during charging. Charge with the accompanying wireless charger.

Charging by using AC adapter

● Read the user's guide of FOMA AC Adapter 01/02 (sold separately).

1. Open the external connector terminal cover and insert the AC adapter horizontally into the external connector terminal (■1)

Charging LED

External connector terminal

■1

External connector terminal cover

Connector (with the arrow side up)
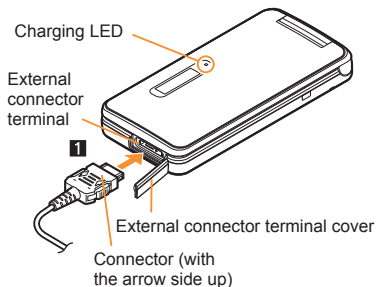
2. When inserting the AC adapter power plug into an outlet, charge alert is heard, charging LED illuminates, and charging starts

100V AC outlet
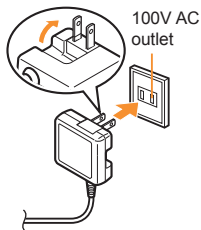
3. When charge alert is heard and charging LED turns off, charging is complete

● When removing the connector, always hold the release buttons on both sides (■1) and unplug it horizontally (■2).

■1

■2

■1

Release buttons
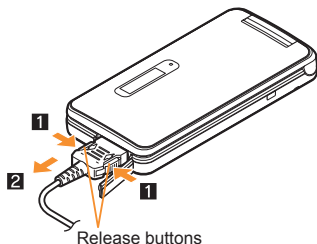
● Do not forcibly insert or remove. May cause damage to the external connector terminal and the connector or result in malfunction.

Turning power on

1. ⌒ **(for at least 2 seconds)**
● Stand-by display appears when initial settings are complete.
● Press ⌒ for at least 2 seconds to turn the power off.

Changing screen display to English

1. In the Normal menu, [本体設定] (Setting) ▶ [文字表示/入力] (Text display/input) ▶ [Select language] ▶ [English]

Making initial setting

- If the setting of Password is not complete, the setting screen appears every time the power is turned on.
- Alternatively, in the Normal menu, [Setting] ▶ [Other setting] ▶ [Initial setting] to display the setting screen.

1 **[Date and time setting]** ▶ **set the date and time**

2 **[Password]** ▶ **register a terminal security code**

3 **[Keypad sound]** ▶ **set the keypad sound**

4 **[Text size]** ▶ **set the font size collectively**

5 📷

Notifying the other party of your phone number

You can display your number (caller ID) on the other party's phone (display) when you make a voice or videophone call.

- When you hear a message requesting caller ID, activate Caller ID notification or put "186" and make a call again.

1 **In the Normal menu, [TEL function]** ▶ **[Dial/Receive call setting]** ▶ **[Caller ID notification]**

2 **[Setting]** ▶ **select the setting** ▶ **[OK]**

Checking your own phone number

1 **In the Normal menu, [Profile]**

Saving your own name and image

1 **In the Normal menu, [Profile]**

2 📷 ▶ **enter the terminal security code**

3 **Set each item** ▶ 📷

```
User information
[Name]
[Reading]           NO IMAGE
[Select/Shoot image]
📞 090XXXXXXXX
☎ [Phone number]
✉ [Mail address]
🎂 [Birthday]
✏ [Note]
📮 [PostalCode/Address]
🏢 [Company name]
🏢 [Department]
```
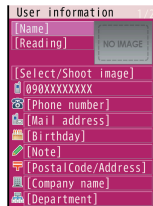
Changing mail address or configuring spam mail prevention

You can connect to the i-mode site for changing mail address or configuring spam mail prevention, etc. Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on setting method.

1 **In stand-by,** ✉ ▶ **[Mail setting]** ▶ **[Address/Spam setting]**

2 **[YES]**

Screen Explanation

Viewing display

 Icon display area

Main icons

▊▊▊	Battery level ▊▊▊→▊▊▊→▊▊→▊→▢ (High ◀━━━▶ Low)
▊▊▊	Signal status ▊▊▊→▊▊→▊→▊ (Strong ◀━━▶ Weak) ● When [圏外] appears, the handset is outside the service area or in a place with no signal.
▮▮	i-mode
📶 AP	Wi-Fi
▲▲	Ir communication
🔊 🔊	Hands-free
✉ ✉ₛ ✉ ◉	i-mode mail/SMS/Area Mail/Information received
📺 📺 📺 📺	i-αppli
🕐 📅	Alarm/Schedule
📡	Software update
SD 🚫	microSD Card
🚗	Public mode (Drive mode)

🔇 📳	Silent/Vibrator
💟 📵	Manner mode
🔒	Keypad dial lock
📼	Record message
✏	VeilView
📇	docomo mini UIM card error
Self	Self mode
🎵	Music&Video Channel program reservation
☀	Bright mode
3G	3G
❄	Bluetooth
🎵 🎵	Music&Video Channel
🔒	Personal data lock
📹 📹	1Seg recording
🔌	USB connection

Checking notices with stock icon

Stock icons appear in the stand-by display and notify you when a call is missed or a new mail is received.

Stock icon

Main meanings of marks

- ▉ : Missed call
- 🔁 : Record message
- 👜 : Voice mail
- ✉ : Mail message

1 **A stock icon appears in the stand-by display ▶ ◉**

2 **Select the stock icon**
- ● The stock icon disappears after you check the details.

Viewing sub display

The following shows a screen when Clock display is set to [Stand-by clock (S)] in the Display setting of Sub-display setting.

Icon display area

Clock display

Setting and selecting menu

Set, change or register functions from the menu screens.

The explanations in this manual are based on the method for retrieving a function from the Normal menu.

Displaying each menu

Press [MENU] in the stand-by display to display Normal menu, Basic menu and Shortcut menu.
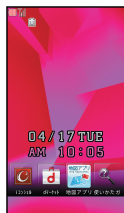
● You can change the menu which is displayed when you press [MENU] (☞P. 41).

Stand-by display

Normal menu

Shortcut menu

Basic menu

Operation guidance key

Use to select or execute the menus displayed in the operation guidance. The following shows the keys assigned to select or execute the menu items displayed in the guidance.
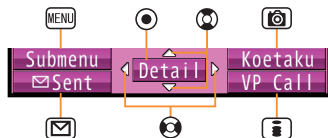
Operation guidance menu

In the operation guidance, menus appear according to the function being used and situation.
The following table describes examples of the main operation guidance menus that appear.

OK	Set selected item
Submenu	Display the submenu
Agree	Check selected image, music, etc.
Back	Return to the previous screen
Show all	Display sorted files as a list
Cancel	Cancel an operation such as receiving mail
SelAll/ClrAll	Select/Disable all selectable items
Shortcut	Add the shortcut
Close	Close the submenu screen, etc.

Menu operation

- For details on the available functions ☞P. 89
- The method for selecting functions may differ depending on the Kisekae Tool set for the Normal menu.

The way of activating alarm with Multi guide key is explained as an example below.

Normal menu   [Tool] appears
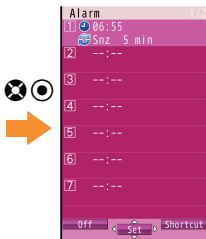
Alarm is activated

Selecting a function from submenu

When [Submenu] appears in the operation guidance, functions (submenu) that can be used in the screen appear by pressing [MENU]. Select the displayed submenu with ⊗.
If there are multiple pages in submenu, switch pages with ⊗.

docomo Palette UI

When the FOMA terminal is turned on, the stand-by display appears. When you press ⊗ in the stand-by display, the MyFACE screen appears and when you press ◎ twice, the shortcut screen appears. You can use various functions by registering the contents and shortcuts in each screen.

⊗

MyFACE screen
(Calls list)

⊗

Stand-by display

⊗

MyFACE screen

◎ (twice)

◎

Shortcut screen

1 **MyFACE contents**
2 **MyFACE update notification**
3 **Stand-by shortcut**
4 **i-Channel ticker**
5 **Group name**
6 **Shortcuts**
7 **New additional icon**
8 **Number of shortcuts in a group**

Basic Operation 37
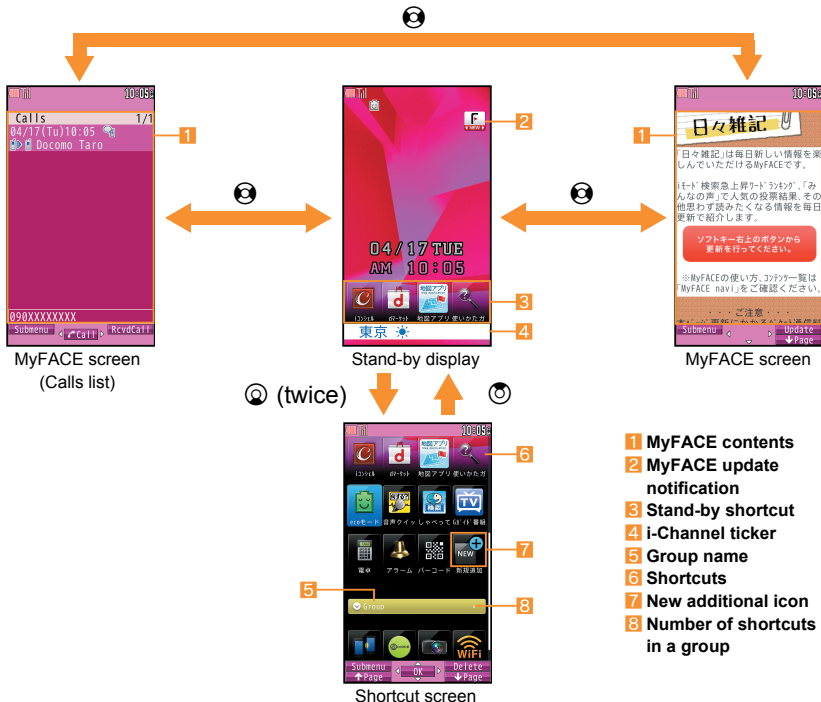
Using MyFACE

1 In stand-by, 😊
- Update the MyFACE contents: 📷

- Packet communication charges are also incurred for updating the pre-installed MyFACE contents when you change the host setting.

🔡 Setting MyFACE

1 In the Normal menu, [Setting] ▶ [Screen/Display] ▶ [MyFACE setting]

2 Select an item
- ◆ [MyFACE usage setting] ▶ select the setting
- ◆ [Update notification setting] ▶ select the setting
- ◆ [Auto-update setting when roaming] ▶ select the setting
- ◆ [Set operation when battery is low] ▶ select the setting
- ◆ [MyFACE viewer setting] ▶ select an item

[Auto-update setting when roaming]
- When you move abroad, [Don't auto-update] is set and the confirmation screen appears.
- Packet communication charges are incurred for updating all the MyFACE contents during the international roaming.

Using shortcut

1 In stand-by, 😊 ▶ 😊

2 Select a shortcut

🔡 Creating a shortcut
Example: Normal menu

1 Point the cursor to a menu item ▶ [MENU] ▶ [Create shortcut]
- Alternatively, in the shortcut screen, [新規追加] (Add new shortcut) ▶ point the cursor to an item ▶ [MENU].

🔡 Moving a shortcut/group

1 In the shortcut screen, point the cursor to a shortcut/group ▶ ⊙ (for at least 1 second) ▶ select a destination

Using Guide

※ Guide function is provided in Japanese.

Use this function when you do not know the operation method of FOMA terminal. Guide appears and you can check the explanations and operation methods of each function. Also, you can activate functions directly from Guide.

使いかたガイド
目次
機能名や目的から、機能概要や操作方法を探すことができます
索引
フリーワード検索
ブックマーク
困ったときには
その他のご案内
Select
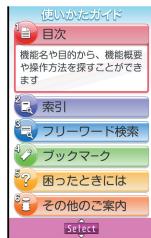
1 In the Normal menu, [Tool] ▶ [Guide]

2 Select an item

Character Entry

Entering characters

Enter characters for functions such as phonebook and mail on the FOMA terminal.

● The explanations in this manual are based on method for entering characters in 5-touch entry method using dial buttons.

Switching entry modes

Switch entry modes to enter various types of characters.

1 In the character entry screen, 🖂

漢	ア	7	区
a	a	1	_1
A	A			← Items to switch

2 Select the entry mode

漢	Kanji/Hiragana
ア	Double-byte katakana
7	Single-byte katakana
区	Kuten code
a	Double-byte alphabet characters (lower case → upper case)
a	Single-byte alphabet characters (lower case → upper case)
1	Double-byte numbers
_1	Single-byte numbers
A	Double-byte alphabet characters (upper case → lower case)
A	Single-byte alphabet characters (upper case → lower case)

Entering characters

Example: When entering "電話"

1 In the character entry screen, enter "でんわ"

● でんわ: **4** (four times) ▶ **✳** (once) ▶ **0** (three times) ▶ ⊙ ▶ **0** (once)
● To enter multiple characters assigned to the same key: Enter a character ▶ ⊙ ▶ enter a character

2 📷

3 ⊙

Entering pictograms/symbols

1 In the character entry screen, 📷

● To switch between Deco-mail pictogram/ pictogram/Deco-mail picture: 📷
● To switch between single- and double-byte symbols: [MENU]

2 Select a pictogram/symbol

Entering emoticons

1 In the character entry screen, [MENU] ▶ [Pict/Symbol/Smiley] ▶ [Smiley]

● For a mail message: In the character entry screen, [MENU] ▶ [Quote phrase/data] ▶ [Pict/ Symbol/Smiley] ▶ [Smiley]

2 Select a category ▶ select an emoticon

Sound/Screen Setting

Changing ring tone

1. **In the Normal menu, [Setting] ▶ [Sound/Vibration/Manner] ▶ [Ring tone]**

2. **Select an item**
   - ◆ [Call ring tone]
   - ◆ [Videophone]
   - ◆ [Mail] ▶ select an item

3. **Set each item ▶ 📷**

● If you set a melody for the ring tone, the related functions of the vibrator setting (☞P. 40) will be set to [OFF].

Changing ring tone volume

1. **In the Normal menu, [Setting] ▶ [Sound/Vibration/Manner] ▶ [Adjust volume]**

2. **Select an item**
   - ◆ [Alert/Call volume] ▶ select an item ▶ ⊙
   - ◆ [Mail/Msg. alert vol] ▶ ⊙

Changing keypad sound volume

1. **In the Normal menu, [Setting] ▶ [Sound/Vibration/Manner] ▶ [Adjust volume]**

2. **[Operation sound] ▶ ⊙**

Setting vibrator

You can set the vibration for incoming calls, alarms and using i-αppli.

1. **In the Normal menu, [Setting] ▶ [Sound/Vibration/Manner] ▶ [Vibration mode]**

2. **Select an item**

3. **Select the vibrator**

● Note that if you set the vibrator and put the FOMA terminal on a table, it may fall due to vibration.

Using manner mode

You can switch the FOMA terminal to mute.
- ● The following sounds are heard even while the manner mode is set.
  - ■ Shutter sound of camera
  - ■ Record start/end sound of camera
  - ■ Record start/end sound of voice recorder
- ● The vibrator is activated regardless of the manner mode settings when the earthquake early warning is received. In addition, when any of the following sounds is set to ring in Personalized, the dedicated alarm tone (beep sound) also sounds.
  - ■ Keypad sound
  - ■ Mail alert volume
  - ■ Alarm sound
  - ■ Call alert volume
  - ■ Low battery alert

1. **In the Normal menu, [Setting] ▶ [Sound/Vibration/Manner] ▶ [Silent mode]**

2 Select a type

- ◆ [General]
- ◆ [Personalized] ▶ set each item ▶ 📷
- ◆ [Silent manner mode]
- ● [🔔]/[🔇] appears when the manner mode is set.

Disabling manner mode

- ● In stand-by, ⚏ (for at least 1 second)

Changing screen setting

Changing main display

1 **In the Normal menu, [Setting] ▶ [Screen/Display] ▶ [Stand-by display setting] ▶ [Image/i-αppli]**

2 **Select an item**

Making display hard to see from people around

Display the pattern (design or animation) on the screen to prevent others from seeing the screen.

1 **📖 (for at least 1 second)**

- ● [🖹] appears when VeilView is set.

Disabling VeilView

- ● 📖 (for at least 1 second)

Changing menu display

You can set the start menu which is displayed when you press 📶 in the stand-by display.

1 **In the Normal menu, [Setting] ▶ [Screen/Display] ▶ [Menu preference]**

2 **[Select startup menu] ▶ select a menu**

- ● Following items can be set.
  - ■ Normal menu: You can select the preset Kisekae tool (☞P. 42) and set it. Each Kisekae tool consists of different functions and designs. Also, download Kisekae tool from a site etc.
  - ■ Basic menu: You can select an icon displayed on the menu to retrieve the function. Also, enter a function number assigned to the Setting menu to retrieve the function quickly.
  - ■ Shortcut menu: You can register functions frequently used, people or groups and create an original menu.

Changing font size

1 **In the Normal menu, [Setting] ▶ [Text display/input] ▶ [Font size]**

2 **Select an item ▶ select the font size**

Changing Machi-chara setting

A character appears in the stand-by display when you set Machi-chara.

1. **In the Normal menu, [Setting]▸ [Screen/Display]▸[Machi-chara setting]**

2. **[Display setting]▸ set each item▸ 📷**

░ Setting to talk with Machi-chara

You can set whether to output Machi-chara voice when you use Quick voice activation (in Japanese only).

● Pre-installed [メイちゃん] and [セイリアン] are compatible with Machi-chara chat setting.

1. **In the Normal menu, [Setting]▸ [Sound/Vibration/Manner]▸ [Machi-chara chat setting]**

2. **Select the setting**
   ◆ [ON]▸ select the voice output destination
   ◆ [OFF]

Setting Kisekae tool

You can change the Normal menu screen, stand-by display, menu icon, ring tone, etc. collectively.

1. **In the Normal menu, [Setting]▸ [Screen/Display]▸[Kisekae Tool setting]**

2. **Point the cursor to Kisekae tool▸ 📷▸[Yes]**
   ● To check data: Select Kisekae tool (to display the data list screen in Kisekae tool)▸ select data

Setting illumination

1. **In the Normal menu, [Setting]▸ [Backlight/Illumination]▸[Light alert]**

2. **Select an item**

3. **Set each item▸ 📷**

Checking missed calls or new mails

1 **In the Normal menu, [Setting]▸ [Screen/Display]▸ [Each display setting]**

2 **[Info display & light]▸ select an item**

- Following items can be set.
  - Caller/Sender info: Set whether to display phone numbers, name, etc. registered in phonebook when receiving a call or mail.
  - Indicator light: LED flashes at approximately 4-second intervals and notifies you of missed calls and new mails.

Setting eco mode

1 **In the Normal menu, [Setting]▸ [Battery]▸ [eco mode]**

2 **Select the setting**

- [🔋] appears when eco mode is set.

eco mode auto-start setting

1 **In the Normal menu, [Setting]▸ [Battery]▸ [eco mode auto-start set.]**

2 **Select an item**

- ◆ [Auto-start ON/OFF]▸ select the setting
- ◆ [Start method]▸ select an item▸ set each item▸ 📷
- ◆ [eco mode item set.]▸ select an item▸ 📷
  - You can set the target item when you set the eco mode.
  - When you match the cursor to the item, [🍃] at the bottom of the display changes according to how great the effect is when setting the item. The more [🍃] there are, the greater the effect will be.
- ◆ [Return to default]▸ [Yes]
- ◆ [Check user's guide]
- When eco mode is set to [OFF] while eco mode auto-start set. is enabled, [🔋] appears.

Setting light of display and keypad

1 **In the Normal menu, [Setting] ▶ [Backlight/Illumination] ▶ [Display light]**

2 **Select an item**
- ◆ [Display light time] ▶ select an item ▶ select the setting
  - You can set the length of light time for each function when the FOMA terminal is not in use for a set length of time.
- ◆ [Light time-out] ▶ select the time
  - Display is turned off when the FOMA terminal is not in use for a set length of time.
- ◆ [Brightness] ▶ ⊙
  - You can select from five display brightness levels. Check brightness with adjusting.
- ◆ [Keypad backlight] ▶ select the setting ▶ 📷

Using bright mode

To make the screen easy to see even under the sunlight, the bright mode displays the display brightly and clearly.

1 ⊛
- When you set the bright mode, [🌟] is displayed.

Disabling bright mode
- ⊛

Lock/Security

Various security codes

Some functions for convenient use of the FOMA terminal require security codes.

Precautions for various security codes
- Do not use easily estimated numbers for security codes to be set such as "birthday", "part of a phone number", "address or room number", "1111" or "1234". Keep a separate memo of security codes.
- Keep security codes private. If the security codes are found and improperly used by others, DOCOMO shall not be liable for any loss of the users.
- If you forget your security codes, you are required to bring your identification (a driver's license etc.), your FOMA terminal and your docomo mini UIM card to a docomo Shop.
  For further details, contact the number listed in "General Inquiries" on the back of this manual.
- PUK (PIN Unlock Key) is described in the agreement form (customer copy) you received at the time of subscription at a docomo Shop. If you made a subscription outside a docomo Shop, bring your identification (a driver's license etc.) and your docomo mini UIM card to a docomo Shop or contact the number listed in "General Inquiries" on the back of this manual.

Terminal security code
(Default: 0000)

● If you enter the wrong terminal security code five times continuously, the power is turned off.

⚙ Changing terminal security code

1 **In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Change security code] ▶ enter the current terminal security code**

2 **Enter the new terminal security code**

3 **Enter the new terminal security code again**

4 📷

Network security code
(At subscription: Set any code)

Network security code is a four-digit code required for confirming the subscriber's identity when an order is received at a docomo Shop, docomo Information Center or "お客様サポート" (user support) (in Japanese only) or used for accessing various network services.

⚙ Changing network security code

1 **In stand-by, 🔳 ▶ [お客様サポート] (user support) ▶ [各種設定 (確認・変更・利用)] (settings (check/change/use)) ▶ [ネットワーク暗証番号変更] (change network security code)**

i-mode password
(At subscription: 0000)

A four-digit "i-mode password" is required to register/delete sites in マイメニュー (My menu) or subscribe/cancel message services and charged i-mode services (Additionally, information providers may set their own passwords).

⚙ Changing i-mode password

1 **In stand-by, 🔳 ▶ [English] ▶ [Options] ▶ [Change i-mode Password]**

PIN1 code/PIN2 code
(At subscription: 0000)

You can set two security codes, PIN1 code and PIN2 code, on the docomo mini UIM card.
The PIN1 code is a four- to eight-digit security code that is entered when a docomo mini UIM card is inserted in the FOMA terminal or when the FOMA terminal is turned on to prevent unauthorized use by a third party. Enter the PIN1 code to enable making/receiving calls and operating the handset. The PIN2 code is a four- to eight-digit security code that is entered for performing operations such as resetting total call cost, using or applying for client certificates.

● If you enter the wrong PIN1 code or PIN2 code three times continuously, it is locked.

▤ Setting PIN code

1 In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [UIM setting]

2 Select an item

◆ [Change PIN1 code] ▶ enter the terminal security code ▶ enter the current PIN1 code ▶ enter the new PIN1 code ▶ enter the new PIN1 code again ▶ 📷

• When the PIN1 entry ON/OFF is set to [OFF], you cannot change the PIN1 code.

◆ [Change PIN2 code] ▶ enter the terminal security code ▶ enter the current PIN2 code ▶ enter the new PIN2 code ▶ enter the new PIN2 code again ▶ 📷

◆ [PIN1 entry ON/OFF] ▶ [ON] ▶ enter the PIN1 code

• You can set to enter the PIN1 code when the power is turned on.

PUK (PIN Unlock Key)

You cannot change the code.

PUK is an eight-digit number used to disable the PIN1/PIN2 code lock.

● If you enter the wrong code ten times continuously, the docomo mini UIM card is completely locked. In this case, contact a docomo Shop.

Various lock functions

Lock function	Operation/Restriction
All lock	Prevents all operations other than power on/off and answering calls/videophone calls. ● Enable: In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Lock settings] ▶ [All lock] ▶ enter the terminal security code ● Disable: In stand-by, enter the terminal security code
Omakase Lock	Omakase Lock is a service to lock the personal data in case of loss, etc. by only your request to DOCOMO via phone. **Set/Release Omakase Lock** ☎ 0120-524-360 Office hours: 24 hours (in Japanese only) (open all year round) ※ Unavailable from part of IP phones. ● Omakase Lock can also be set/released from the My docomo website using PCs. ● Refer to "Mobile Phone User's Guide [Basic Usage]" for details on Omakase Lock.
Self mode	Prevents communication such as calls, i-mode mails, i-mode or Ir communication. ● Enable/Disable: In the Normal menu, [Setting] ▶ [Other setting] ▶ [Self mode] ▶ select the setting ▶ [Yes]

Lock function	Operation/Restriction
Personal data lock	Prevents the display of mail, personal information, etc. ● Enable/Disable: In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Lock settings] ▶ [Personal data lock] ▶ enter the terminal security code ▶ select the setting
Keypad dial lock	Prevents calls or i-mode mails/SMS to a number not registered in the phonebook. ● Enable/Disable: In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Keypad dial lock] ▶ enter the terminal security code ▶ select the setting
Auto-key lock	Prevents key operation automatically when the FOMA terminal is closed or set time passed after the display disappeared. ● Enable/Disable: In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Lock settings] ▶ [Auto-key lock] ▶ select the lock type ▶ enter the terminal security code ▶ set each item ▶ 📷 ● Disable Lock on close temporarily: Open the FOMA terminal and enter the terminal security code ● Disable Display off lock temporarily: Press any key to show the display ▶ 🔲 ▶ enter the terminal security code

Basic Operation 47

Incoming call restriction

Setting response to a call with no caller ID

You can set different responses when caller ID is not sent depending on the non-disclosure reason.

● The following are the types of non-disclosure reason.

   ■ Anonymous   ■ Payphone   ■ Unavailable

1 **In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Call rejection setting]**

2 **Select an item**
   ◆ [Anonymous] ▶ enter the terminal security code ▶ set each item ▶ 📷
   ◆ [Payphone] ▶ enter the terminal security code ▶ set each item ▶ 📷
   ◆ [Unavailable] ▶ enter the terminal security code ▶ set each item ▶ 📷

Rejecting a call from a caller unset in phonebook

1 **In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Call rejection setting]**

2 **[Unregistered caller] ▶ enter the terminal security code ▶ select the setting**

Resetting to default

Resetting various functions

● For items that return to default by Reset ☞P. 89

1 **In the Normal menu, [Setting] ▶ [Other setting] ▶ [Reset]**

2 **Enter the terminal security code**

3 **Select an item ▶ 📷 ▶ [Yes]**

Deleting registered data collectively

You can delete all saved data and reset the settings of each function to default.

● Protected data in the FOMA terminal is also deleted.

1 **In the Normal menu, [Setting] ▶ [Other setting] ▶ [Delete all data]**

2 **Enter the terminal security code ▶ [Yes]**

Call

Making a voice/videophone call

● The FOMA terminal does not have a camera inside, so images which you send to the other party are Chara-den, still pictures or images being shot with the camera on the back of the FOMA terminal.

● DOCOMO videophones comply with "3G-324M as defined by the international 3GPP standard". Connection is not available with videophones using other standards.

Making a call by entering a phone number

1. **In stand-by, enter a phone number**
   ● Start with the area code.

2. **⌒ (Phone)/📷 (V.phone)**

3. **⌷ to end the call**

Making a call from phonebook

1. **In stand-by, ⊙**

2. **Point the cursor to the name**

3. **⌒ (Phone)/📓 (V.phone)**

Making a call with redials/received calls

1. **In the Normal menu, [TEL function] ▶ [Dialed/Received calls] ▶ [Received calls]/[Redial]**

2. **Point the cursor to the history**

3. **⌒ (Phone)/📓 (V.phone)**

Using service of Koe-no-Takuhaibin

If your message was recorded, SMS notifies the other party that your message was recorded. You can play the message using the Phone To function from the transmitted SMS.

● Refer to the DOCOMO website for details.

■ When you record a Koe-no-Takuhaibin

1. **In stand-by, enter a phone number ▶ 📓**

2. **Record a message according to the voice guidance ▶ ⌷**
   ● SMS notifies the other party that your message was recorded.

■ When you play a Koe-no-Takuhaibin

1. **Select a record notice SMS**

2. **[再生] (Play) ▶ [Phone] ▶ ⌒/⌨**
   ● Alternatively, in the Normal menu, [TEL function] ▶ [Koe-no-Takuhaibin] ▶ [Message confirm(voice)] ▶ [Yes].

Making an international call

WORLD CALL is an international calling (voice or videophone call) service available from DOCOMO FOMA terminal in Japan.

WORLD CALL is registered when FOMA services are registered (excluding users who did not apply for WORLD CALL).

● WORLD CALL charges are billed with the monthly FOMA service charges.
● Commission and monthly usage fees are free.
● For details on WORLD CALL, contact the number listed in "General Inquiries" on the back of this manual.
● To make an international call through a company other than DOCOMO, contact the representative companies for instructions.

1 **In stand-by, enter "+" (0 for at least 1 second), country code, area code (city code) and phone number**

   ● For other parties' phone numbers and area codes (city codes) that begin with "0", omit the "0" when entering (except some countries or regions such as Italy).

2 **📞 (Phone)/📹 (V.phone)**

3 **[Yes]**

Receiving a voice/videophone call

1 **When a call is received, the ring tone sounds and the called LED flashes**

● When the caller does not send a caller ID, a non-disclosure reason message appears.
   • [User Unset]: When the caller purposely withholds caller ID
   • [PublicPhone]: When the call is received from a payphone
   • [Unavailable]: When the caller cannot send a caller ID, such as when the call is received from overseas or ordinary (landline) telephones via various transfer services

2 **📞**

3 **📴 to end the call**

Adjusting earpiece volume

1 **During a call, ◎**

When you cannot answer a call

Setting record message (voice/videophone calls)

If you set record message, the FOMA terminal answers a call and records the caller's message when you cannot answer.

1 **In the Normal menu, [TEL function] ▶ [Record message/Voice memo] ▶ [Record message]**

2 **[ON]**

● Recorded contents may be lost due to malfunctions, repairs or other handling of the FOMA terminal. DOCOMO shall not be liable for any loss of content. It is recommended that a memo be kept of contents for record message (voice/videophone calls).

Playing record message

1. **In the Normal menu, [TEL function]▶ [Record message/Voice memo]▶ [Record message list]**

2. **Select a message**

3. **[No]**

Setting Public mode (Drive mode)

When Public mode (Drive mode) is set, the caller hears a message stating that you are driving or otherwise unable to answer because you are in a place that does not allow the use of mobile phone and the call is automatically disconnected.

● A ring tone does not sound when a voice/videophone call is received. The stock icon [🚗] appears on the display and the call is saved in Received calls.

1. **In stand-by, ✕ (for at least 1 second)**

   Disabling Public mode (Drive mode)
   ● In stand-by, ✕ (for at least 1 second)

Setting Public mode (Power off)

If Public mode (Power off) is set, when a call is received with the power turned off, the caller hears a message stating that you are in a place that does not allow the use of mobile phone and the call is automatically disconnected.

1. **In stand-by, ✕②⑤②⑤① ▶ ☎**

   Disabling Public mode (Power off)
   ● In stand-by, ✕②⑤②⑤⓪ ▶ ☎

Using various network services

● You can use the following DOCOMO network services on the FOMA terminal.

Service name	Subscription	Monthly fee
Voice Mail Service	Necessary	Fees apply
Missed Call Notification Service	Not necessary	Free
Call Waiting Service	Necessary	Fees apply
Call Forwarding Service	Necessary	Free
Nuisance Call Blocking Service	Not necessary	Free
Caller ID Notification Service	Not necessary	Free
Public mode (Drive mode)	Not necessary	Free
Public mode (Power off)	Not necessary	Free
Caller ID Display Request Service	Not necessary	Free
English Guidance	Not necessary	Free
Multi Number	Necessary	Fees apply
2in1	Necessary	Fees apply
OFFICEED	Necessary	Fees apply
Melody Call	Necessary	Fees apply
Koe-no-Takuhaibin	Not necessary	Free

● Network services are not available outside the service area or in a place with no signal.

- For details on "OFFICEED", refer to the DOCOMO website for corporations (in Japanese only) (http://www.docomo.biz/html/service/officeed/).
- Refer to "Mobile Phone User's Guide [Network Services]" for details on each network service.
- For subscription and inquiries, contact the number listed in "General Inquiries" on the back of this manual.

Setting Voice Mail Service

1. **In the Normal menu, [TEL function] ▶ [Voice mail service]**

2. **[Activate] ▶ [Yes] ▶ [Yes] ▶ enter the ringing time ▶ [OK]**

Setting Call waiting service

1. **In the Normal menu, [TEL function] ▶ [Other network service] ▶ [Call waiting]**

2. **[Activate] ▶ [Yes] ▶ [OK]**

Setting Call Forwarding Service

1. **In the Normal menu, [TEL function] ▶ [Other network service] ▶ [Call forwarding]**

2. **[Activate] ▶ [Yes] ▶ [Yes] ▶ enter a phone number ▶ 📷 ▶ [Yes] ▶ enter the ringing time ▶ [OK]**

Emergency call

Emergency calls	Phone number
Emergency call to police	110
Emergency call to fire station/ medical assistance	119
Emergency call at sea	118

- The FOMA terminal supports "Location notification of emergency call".
  When dialing an emergency number such as 110, 119, and 118, the information of your location (location information) is automatically notified to the agency that received the emergency call (e.g. the police station). Depending on your location and the reception status of the signal, the agency that received the emergency call may not be able to confirm the exact location.
  If you are not sending your caller ID by calling with "184" added or other means, your location information and phone number are not notified. However, if the agency that received the emergency call considers your location information and phone number necessary for important purposes, such as life saving, the agency can retrieve them regardless of your settings. In addition, the area/timing to introduce "Location notification of emergency call" depends on the state of preparation in each agency that receives emergency calls.

- When calling 110, 119, and 118 from your FOMA terminal, the police or fire stations may return your call for verification purposes. State that you are calling from a mobile phone, and give your phone number and exact location. Remain stationary to ensure that you are not disconnected while making an emergency call, and keep handset turned on to receive calls for approximately 10 minutes afterwards.
- Depending on the region, calls to the police or fire station may not be connected.
- If you call 110, 119 or 118 by videophone with the FOMA terminal, the call is disconnected. When Auto redial as voice is set to [ON], the call is automatically switched to the voice call and made again.

Using overseas

International roaming (WORLD WING) is a service that enables you to use the same FOMA terminal as you use in Japan in the service area of DOCOMO affiliated overseas telecommunications carriers without changing your phone number and mail address. You can use voice calls, SMS and i-mode mail without any changes in settings.

Available area
You can use the FOMA terminal in the 3G network service areas. In addition, this service is available in countries and regions supporting 3G 850 MHz. Check the available area. You cannot use the FOMA terminal in the GSM/GPRS network service area.

Refer to the following before using the FOMA terminal overseas.
- "Mobile Phone User's Guide [International Services]"
- DOCOMO International Services website
- "海外ご利用ガイド" (in Japanese only) pre-installed in [My document] of Data box

Subscription
- Check the status of a subscription for WORLD WING. For details, contact "General Inquiries" on the back of this manual.

Charge
- Overseas charges (call charges, packet communication charges) differ from those in Japan.
- When a call is received during international roaming, the call is forwarded from Japan. Call charges to Japan are incurred by the caller and receiving charges by the receiver.

Inquiries
- When the FOMA terminal or the docomo mini UIM card is lost or stolen overseas, promptly contact DOCOMO and conduct a procedure for canceling the use of service from your country of stay. Refer to the back of this manual for inquiries. Note that communication/calling charges after the FOMA terminal or the docomo mini UIM card is lost or stolen are incurred to the subscriber.

- For country codes, international call access number, universal number international prefix and information on available countries, regions and telecommunications carriers, refer to "Mobile Phone User's Guide [International Services]" or the DOCOMO International Services website.

Available services overseas

Main communication service	3G
Voice call[*1]	○
Videophone[*1]	○
SMS[*2]	○
i-mode[*3]	○
i-mode mail	○
i-Channel[*3, 4]	○
i-concier[*5]	○
i-Widget[*6]	○
Packet communication by connecting a PC	○

*1 When the 2in1 is used, calling from Number B is not available. When Multi Number is used, calling from Additional Number is not available.
*2 Enter the same phone number as used in Japan when sending to the FOMA terminal.
*3 Overseas use settings for i-mode are required.
*4 Overseas use settings for i-Channel are required. Packet communication charges for automatically updating information provided by Basic Channel are incurred (included in i-Channel usage fee in Japan).
*5 Overseas use settings for i-concier are required. Packet communication charges are incurred for each information reception.
*6 Setting i-Widget for overseas use is required. Multiple Widget Appli may attempt communication when i-Widget screen appears. In such case, packet communication charges are incurred for each communication.

● Some services are not available depending on the telecommunications carrier or network.

Making a call to outside the country you stay in (including Japan)

Make a call from your country of stay to Japan or other countries.

1 In stand-by, enter "+" (⓪ for at least 1 second), country code, area code (city code) and other party's phone number
   ● When the area code (city code) begins with "0", omit the "0" when dialing (Include "0" when making a call to some countries or regions such as Italy).

2 ⌇ (Phone)/⌇ (V.phone)

Making a call in country you stay

You can make a domestic call in your country of stay in the same way as you do in Japan.

1 In stand-by, enter a phone number

2 ⌇ (Phone)/⌇ (V.phone)

Making a call to WORLD WING user overseas

When you make a call to a WORLD WING user overseas, you make a call as an international call to Japan regardless of your country of stay.

1 In stand-by, enter "+" (⓪ for at least 1 second), country code "81" (Japan) and the other party's mobile phone number excluding the first "0"

2 ⌇ (Phone)/⌇ (V.phone)

Mail

You can exchange mails with other i-mode compatible terminals and e-mail via the Internet by subscribing to i-mode service. You can attach up to ten files (pictures, moving picture files, etc.) in total of 2 MB to a message. Also, Deco-mail is available. You can easily send an expressive mail by changing character color and size or background color and inserting Deco-mail pictograms. Moreover, Flash movie Decome-Anime with a message or image inserted is available.

● Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-mode mail.

Sending i-mode mail

1 **In stand-by, 🖂 ▶ [Compose message]**

2 **[<No address>] ▶ enter an address**
 ● When selecting [Search phonebook], you can enter up to 50 addresses at the same time.

3 **Select the SUB field ▶ enter a subject**

4 **[Message] ▶ enter a message**
 ● To decorate the mail automatically: After entering a message, [Auto-Decome] in the mail composition screen
   • To move on to the next conversion candidate: 🖾
 ● To attach files: Select the attachment field in the mail composition screen ▶ select a file

5 **🖾**

Creating Deco-mail/Decome-Anime

Creating Deco-mail

You can change color and font size of message text, insert images such as Flash movies or change background color when composing i-mode mail.

1 **In the message entry screen, MENU ▶ [Decorate mail]**

2 **Decorate**
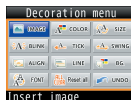
Palette

 ● Select the decoration method from the palette or submenu, set contents of decorating and enter messages.

Creating Decome-Anime

Decome-Anime is an expressive mail service that uses Decome-Anime Templates and Flash movies with a message or an image inserted.

1 **In stand-by, ✉ ▶ [Create new Decome-Anime] ▶ [Edit]**

2 **Point the cursor to the template ▶ 📷**

3 **Select an edit item**
   ◆ [✐] ▶ select an item ▶ edit
   ◆ [📑] ▶ edit
   ◆ [✐] ▶ [Select image] ▶ point the cursor to the image ▶ 📷

4 **📷**

Checking received i-mode mail

1 **Receive i-mode mail automatically**

2 **After reception, the receive complete screen appears and i-mode mail ring tone sounds**
   ● If no operations are performed in the receive complete screen for approximately 15 seconds, the screen before reception automatically reappears.

3 **[Mail] ▶ select a mail**

● [-END-] appears at the end of the message. When receiving limit is exceeded, [/] or [//] appears and the exceeding portion is automatically deleted.

Displaying a mail in Inbox/Outbox/Unsent box

1 **In stand-by, ✉**

2 **Select a box**

3 **Select a mail**

Replying to i-mode mail

1 **In the received mail details screen, MENU ▶ [Reply/Forward]**

2 **Select the reply method**
   ◆ [Reply]
   ◆ [Reply with quote]
   ◆ [View reply]
   ◆ [Quick reply] ▶ select a message
   ◆ [Decome-Anime reply]
   ◆ [Vreply Decome-Anime]

3 **Compose and send a mail**

Checking new i-mode mail

Received i-mode mail or Message R/F are stored at the i-mode center while the handset is outside the service area, in the self mode or when the power is turned off. You can check and receive mails from the i-mode center.

1 **In stand-by, ✉ ▶ [Check new mail/message]**

Sorting i-mode mail

Set Sort rules for user folders and sort i-mode mail and SMS automatically.

1 **Point the cursor to the folder** ▶ **[MENU]** ▶ **[Sort rules]**

2 **Select a number to save**

3 **Set the sort rules**

4 **Repeat step 2 and 3 to set multiple sort rules**

5 **[📷]**

Early warning "Area Mail"

Area Mail is a service to receive the earthquake early warning, etc. provided by the Japan Meteorological Agency.

● Area Mail is a free service that does not require a subscription.

● Area Mail is received without i-mode subscription.

Receiving Area Mail

1 **Receive Area Mail automatically**

2 **When Area Mail is received, the dedicated alarm tone (beep sound) or Area Mail dedicated ring tone sounds and the called LED flashes**

● After receptions, some Area Mail automatically display a message, while others display [Area mail received].

● When [Area mail received] appears, the screen before reception automatically reappears after approximately 30 seconds.

Setting Area Mail

1 **In stand-by, [✉] ▶ [Mail setting] ▶ [Early warning "Area Mail" setting]**

2 **[Receive setting] ▶ select the setting**

Using SMS

You can use SMS by entering mobile phone number in the TO field.

Sending SMS

1 **In stand-by, [✉] ▶ [Compose new SMS]**

2 **Select the TO field ▶ enter an address**

3 **[Message] ▶ enter a message**

4 **[📷]**

Checking received SMS

1 **Receive SMS automatically**

2 **After reception, the receive complete screen appears and the SMS ring tone sounds**

3 **[Mail] ▶ select an SMS**

Phonebook

You can use the FOMA terminal phonebook and docomo mini UIM card phonebook.

Adding phonebook entries

● The following items can be added to one phonebook.
  ■ FOMA terminal phonebook: Memory number, name, reading, image/moving picture, group, phone number, mail address, birthday, text memo, postal code/postal address, company name, department, job title and URL
  ■ docomo mini UIM card phonebook: Name, reading, group, phone number, mail address
  • Reading is entered automatically when you enter a name.

Adding new phone number, mail address, etc.

1 **In the Normal menu, [TEL function] ▶ [Phonebook] ▶ [Add to phonebook]/[UIM operation]**

2 **Set each item ▶ 📷**

Adding entries from redials/ received calls to phonebook

1 **In the Normal menu, [TEL function] ▶ [Dialed/Received calls] ▶ [Received calls]/[Redial]**

2 **Point the cursor to the history ▶ MENU ▶ [Add] ▶ [Add to phonebook]**

3 **Set each item ▶ 📷**

Registering all numbers/addresses displayed in a mail

1 **In the mail details screen, select mail addresses or phone numbers**

2 **[Reg all number/address] ▶ set each item ▶ 📷**
  ● You can register up to three phone numbers or mail addresses respectively.

Editing phonebook entries

1 **In stand-by, ◎ ▶ point the cursor to the name ▶ MENU ▶ [Edit/ Settings] ▶ [Edit]**

2 **Edit the phonebook ▶ 📷**

3 **Add to phonebook**
  ◆ [Overwrite]
  ◆ [New entry]

Deleting phonebook entries

1 **In stand-by, ◎ ▶ point the cursor to the name ▶ MENU ▶ [Delete]**

2 **Select the deletion method**

i-mode/Full Browser

Viewing i-mode site

i-mode enables you to use online services, such as connection to sites and the Internet, and i-mode mail, using display of i-mode compatible terminals.

● i-mode is a paid service that requires a subscription.
● Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-mode.

Using i-mode

● Sites and web pages on the Internet are generally protected by copyright law. Selling and redistributing whole or a part of texts, images or other data downloaded to i-mode compatible terminals from these sites and web pages for non-personal use as they are or a part changed without author's permission are prohibited.
● Still pictures/moving pictures/melodies downloaded from sites, files sent/received by mail (still pictures/moving pictures/melodies, etc.), "Screen memos", "Message R/F", etc. cannot be displayed/played, if a different docomo mini UIM card is inserted or the handset is turned on without a docomo mini UIM card.
● If files with access restrictions by a docomo mini UIM card are set as the stand-by display, ring tone, etc. and a different docomo mini UIM card is inserted or the handset is turned on without a docomo mini UIM card, settings are reset to default.

1 **In stand-by,** 🔘
2 **Select an item**

Viewing web pages designed for PC

You can view sites that are not supported by i-mode as they appear on PCs with the FOMA terminal using Full Browser.

● Note that making a communication with large-volume data, such as viewing a web page with many images and downloading data will lead to higher communication charges.
● You can use Full Browser through Wi-Fi. Packet communication charges are incurred if you switch from Wi-Fi to FOMA network. Note that the network does not return to Wi-Fi automatically if you switch to FOMA network.

1 **In the Normal menu, [i-mode/ web]** ▶ **[Full Browser Home]**

● Some sites with large amounts of information do not appear properly.

Switching browsers

For i-mode

1 **While viewing sites with i-mode, [MENU] ▶ [Full Browser] ▶ [Switch to FB]**

For Full Browser

1 **While viewing sites with Full Browser, [MENU] ▶ [i-mode Browser] ▶ [Switch to i-mode]**

● Note that different communication charges are incurred when switching between i-mode and Full Browser.

Viewing and operating sites

Selecting a link and moving to a new screen

Normally, text string to which links are set appears in blue. A selected link is highlighted.

● Some links may be set to images. If you select, the image is outlined.

1 **While viewing sites, select a link**

Moving to previous/next page

The FOMA terminal saves sites you viewed. Press [✉]/[📷] to show the memory without communication. This memory is called the "cache".

● Information such as previously entered character, setting, etc. is not viewed when you view pages saved in the cache.
● The cache is reset by ending i-mode/Full Browser.

● When switching from i-mode to Full Browser, you can return to the page displayed with i-mode by pressing [✉]. Likewise, when switching from Full Browser to i-mode, you can return to the page displayed with Full Browser by pressing [✉].

Saving frequently accessed sites

You can save frequently viewed sites and web pages on the Internet as bookmarks for convenient access.

1. **While viewing sites, [MENU] ▶ [Bookmark] ▶ [Add bookmark]**

2. **[OK]**

3. **Select a folder**

Viewing sites from bookmarks

1. **In the Normal menu, [i-mode/web] ▶ [Bookmark]**

2. **Select a bookmark**
   - Bookmarks are listed in the order of use.
   - Connection is made with i-mode from i-mode bookmarks, while it is made with Full Browser from Full Browser bookmarks.

Saving site contents

You can save screens from your favorite sites etc. as screen memos to the FOMA terminal or microSD Card.

1. **While viewing sites, [MENU] ▶ [Screen Memo] ▶ [Save screen memo]**

2. **Select a save destination ▶ [Yes]**
   - The screen memo is saved.
   - To save the screen capture only: Select a save destination ▶ [Only displayed]

- Some screens may not be saved as screen memos depending on the site such as the site whose size is zero-byte or assigned not to be saved as screen memos.

Displaying screen memos

1. **In the Normal menu, [i-mode/web] ▶ [Screen Memo]**

2. **Select a memo**
   - If you select a link in the screen memo, connection is made with i-mode for the screen memo of i-mode, while it is made with Full Browser for the screen memo of Full Browser.

i-Channel

※ The i-Channel service is provided in Japanese.
i-Channel is a service that sends news, weather and other information to i-Channel supported terminals. The latest information received automatically is displayed in the stand-by display using a ticker. Additionally, press ⬛ (ch) to display the latest information in a list of channels.
i-Channel is a paid service that requires a subscription (i-mode subscription is required).
i-Channel has "ベーシックチャネル (Basic Channel)" provided by DOCOMO and "おこのみチャネル (Okonomi (Optional) Channel)" provided by IP (Information Providers). Packet communication charges for automatically updating information provided by "Basic channel" are not incurred. Packet communication charges for automatically updating information provided by "Okonomi (Optional) Channel" that can be customized are incurred. Note that packet communication charges are incurred when detailed information are viewed in both "Basic channel" and "Okonomi (Optional) Channel".
Packet communication charges are incurred for automatically updating information and viewing detailed information during international roaming.

Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-Channel.

Displaying i-Channel

1. **In stand-by, ⬛ (ch)**
2. **Select a channel**

Setting i-Channel display

Set whether to display i-Channel ticker in the stand-by display and sub display.

1. **In the Normal menu, [i-mode/web] ▶ [i-Channel] ▶ [Ticker display set.]**
2. **Select the display destination of ticker ▶ set each item ▶ 📷**
   ● If [Main display] is selected, the sample of a ticker appears at the lower part of the display.

Camera

Screen layout and operations for shooting screen

Shooting screen layout

Still picture   **Moving picture**

1 **Focus frame**   2 **Icon display position**
3 **Zoom bar**   4 **Status indication**
5 **Remaining time**

Key operations for shooting screen

Key operations for shooting still picture screen

Mini preview	📷	Switch High speed mode/ Normal mode	✉
Switch to moving picture*1	🄸	Adjust brightness	🔘
Adjust zoom*2	❸	Focus lock	📶
Switch camera-mode	①	Switch screen display*3	②
Return to default	③	Fix camera shake	④
Select size	⑤	Select image quality	⑥
White balance	⑦	Auto timer	⑧
Other setting	⑨	Select save destination	✳
Activate operation guide	⑩	My camera	🔣
Switch face detection frame	✳ (1 s or more)		

*1 The key operation is switched to that for switching to still picture mode while face information is registered.
*2 Operation is not available when the shooting size is maximum.
*3 Every time the key is pressed, the display switches in the order of button/grid display → grid display → button/grid hide → button display.

Key operations for shooting moving picture screen

Mini preview	📷	Scene/Mode setting	✉
Switch to still picture	🄸	Adjust brightness	🔘
Adjust zoom	❸	Focus lock	📶
Switch camera-mode	①	Switch screen display*	②
Return to default	③	Fix camera shake	④
Switch image/voice	⑤	Select image quality	⑥
White balance	⑦	Auto timer	⑧
Other setting	⑨	Select save destination	✳
Activate operation guide	⑩	My camera	🔣

* Every time the key is pressed, the display switches in the order of button/grid display → grid display → button/grid hide → button display.

Shooting still/moving pictures

- Although the camera is made with high-precision technology, some pixels or lines look constantly dark or bright. Further, white lines and other noise may appear in images especially when shooting images in dimly lit surroundings.
- If the camera lens is exposed to direct sunlight for a long time, the internal color filter may discolor, creating a discoloration of shot videos.
- Images shot in shooting conditions which include the sun, a light or other strong light source may appear dark and distorted.
- Shooting the sun directly may damage the performance of the CMOS.
- Shot still pictures or moving pictures may not be saved when the battery level is low.

Shooting still pictures

1 In stand-by, ⊚
- When still pictures shooting is activated, the called LED illuminates.

2 ⊚/❑
- Shoot a still picture.
- Since Auto save mode is set to [ON] by default, the still picture is saved automatically and this operation is completed.

3 ⊚/❑
- Save a still picture.

Shooting moving pictures

1 In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [Camera] ▶ [Movie shooting]

- When moving pictures shooting is activated, the called LED illuminates.

2 ⊚/❑
- The subject at the center is automatically focused and shot.
- To pause/resume shooting: MENU
- To shoot a still picture: ✉

3 ⊚/❑ to end shooting
- Since Auto save mode is set to [ON] by default, the moving picture is saved automatically and this operation is completed.

4 [Save]

Viewing still/moving pictures after shooting

Displaying shot still pictures

1 In the Normal menu, [Data box] ▶ [My picture]

2 [Camera] folder ▶ select a still picture
- To set as stand-by display etc.: Point the cursor to the still picture ▶ MENU ▶ [Set screen] ▶ select an item

Playing shot moving pictures

1 In the Normal menu, [Data box] ▶ [i-motion/Movie]

2 [Camera] folder ▶ select a moving picture
- To set as stand-by display, etc.: Point the cursor to the moving picture ▶ 🛈 ▶ select an item

Shooting in various ways

Function	Details	Setting/Starting method
Shoot by scene	You can set the camera to shoot with natural colors and focus based on the surroundings and subject.	In the shooting screen, MENU ▶ 📷 ▶ [Shooting menu] ▶ [Shoot by scene]
Focus setting	You can switch the AF (auto focus) mode according to the subject.	In the shooting screen, MENU ▶ [AF]
Face registration	You can shoot the face image and register it as face information or shoot a picture with registered face information and focus mark displayed on the still picture shooting screen.	In the still picture shooting screen, MENU ▶ 📷 ▶ [FaceReg] ▶ [Save new] ▶ register a face
Toy camera	You can shoot and arrange still pictures just like shooting with toy camera by adding tunnel effect, blurring, etc.	In the Normal menu, [CAMERA/TV/MUSIC] ▶ [Camera] ▶ [Toy camera]
Effect camera	You can set effects for still pictures and moving pictures to change the color tone and touch.	In the shooting screen, MENU ▶ 📷 ▶ [Shooting menu] ▶ [Effect shot] ▶ select the effect type
Multishot camera	You can shoot pictures continuously and choose the favorite photograph from shot still pictures and save it.	In the Normal menu, [CAMERA/TV/MUSIC] ▶ [Camera] ▶ [Multishot camera]

1Seg

Using 1Seg

1Seg is a service provided by TV broadcasters (broadcast stations) etc. Communication charges are not incurred for receiving video, voice and sound. Contact NHK for details on viewing fees of NHK.

※ Packet communication charges are incurred when accessing a site such as a "data broadcasting site", "i-mode site" or others. Also, some sites require information charges to use (i-mode paid sites).

※ For details on the "1Seg" service, see the website below.
The Association for Promotion of Digital Broadcasting
From a PC   http://www.dpa.or.jp/english/
From i-mode   http://www.dpa.or.jp/1seg/k/ (in Japanese only)

🔲 Broadcasting wave

1Seg is one of the broadcasting services, and the receiving signal (broadcast wave) differs from that of FOMA service.
In the following places, the signal status may become weak or the signal may not be received.

■ Place that is far from the tower which sends the broadcasting wave
■ Mountain areas or behind a building
■ A tunnel, basement or a place in the rear of a building

To receive in better conditions, move to another place etc. so that the reception status may become better.

Precautions

Channels will be reorganized in some areas due to the termination of analog broadcasts. Therefore, setting the channel list on yourself once again with the automatic channel setting may be necessary (☞67). Also, make sure to select a channel list after doing so. For details on the channel repack of digital broadcasts, refer to the following web pages or other sources.

総務省テレビ受信者支援センター (デジサポ) チャンネル変更コールセンター (Ministry of Internal Affairs and Communications, DTV Support Center, Call Center for Changing Channel)
Phone number 0120-922-303
From PC   http://www.digisuppo.jp/index.php/repack/ (in Japanese only)
From i-mode   http://digisuppo.jp/m/index.php (in Japanese only)

🔲 About battery level

When battery starts to run out while using 1Seg, [Battery low.Cancel operation and charge battery] appears and 1Seg automatically ends.

🔲 Screen display for first use of 1Seg

A confirmation screen of disclaimer appears for first use of 1Seg after purchase.
Press ⊙ according to the displayed contents. The same confirmation screen does not appear after that.

Before using 1Seg

● If you use 1Seg for a long time while charging, the service life of the battery pack may become shorter than estimated.
● DOCOMO shall not be liable for any loss or change of the saved data due to malfunctions, repairs or other handling of the FOMA terminal. When changing the model or asking for repair of your FOMA terminal, you cannot transfer the stored contents (video and still pictures taken from 1Seg, TVlink, data in the broadcasting storage area, etc.) in the terminal.

Setting channels

To watch 1Seg, set the channels and select a channel list first.

● Perform Auto setting inside the area of a terrestrial digital TV broadcasting service.

1 **In the Normal menu, [CAMERA/TV/MUSIC]▶[1Seg]▶[Channel setting]**
   ● When the confirmation screen appears: [Yes]▶proceed to step 3

2 **[MENU]▶[Create]**

3 **Select the registration method**
   ◆ [Use preset]
      • Select a prefecture/district to use from preset information of broadcast stations of each area and save into the channel list.
   ◆ [Auto setting]▶[Yes]
      • Broadcast station is automatically searched and saved into the channel list.
      • If you do not select an area: [No]▶proceed to step 6

4 **Select an area**

5 **Select a prefecture/district**

6 **[Yes]**

Watching 1Seg

1 **In the Normal menu, [CAMERA/TV/MUSIC]▶[1Seg]▶[Activate 1Seg]**

Screen layout and operations for watching screen

1Seg watching screen layout

1 **Video**
2 **Caption**
3 **Data broadcasting**
4 **Channel number**
5 **Broadcast station/Program name**
6 **Icon display position**

Key operations for 1Seg watching screen

Operate TV mode

Select a station with UP/DOWN	⊙
Select a station with one-touch operation	[1] to [9], [✳], [0], [♯]
Select a station by searching a frequency	⊙ (for at least 1 second)/ ⊙ (for at least 1 second) ● To cancel selecting a station by searching a frequency: ⊙/[CLR]
Adjust volume	⊙

Mute/Disable	$\boxdot$
Turn caption settings on/off	$\boxdot$ (for at least 1 second)
Activate program guide i-αppli	$\boxed{\hspace{0.2cm}}$
Display simple program guide	$\boxed{\hspace{0.2cm}}$ (for at least 1 second)
Record a video of 1Seg program	$\boxed{\vargamma}$ (for at least 1 second) ● To stop recording: $\boxed{\vargamma}$
Record 1Seg programs as a still picture	$\boxed{\vargamma}$
Switch operation	$\boxed{\mathbf{i}}$
Switch screen display	$\boxed{*}$ (for at least 1 second)
Switch vertical/horizontal	$\boxed{\bullet}$
End 1Seg	$\boxed{\frown}$ ▶ [Yes]

Setting timer for starting or recording 1Seg

1 **In the Normal menu, [CAMERA/TV/MUSIC] ▶ [1Seg] ▶ [TV timer list]**

2 **MENU ▶ [Set new timer] ▶ [Manual reception]/[Manual recording]**

3 **Set each item ▶ $\boxed{\hspace{0.2cm}}$ ▶ $\boxed{\hspace{0.2cm}}$**
● When [Manual recording] is selected, the confirmation screen stating that 1Seg may not be recorded correctly depending on signal status appears.

Playing recorded videos

1 **In the Normal menu, [Data box] ▶ [1Seg]**

2 **[Video] folder ▶ select a video**

```
╔═══════════════════════╗
        Music
╚═══════════════════════╝
```

■ Handling the music data

● This manual refers to Chaku-uta full® and WMA (Windows Media® Audio) files played using MUSIC Player as "music data".
  • "Chaku-uta full" is a registered trademark of the Sony Music Entertainment (Japan) Inc.
● The FOMA terminal can play WMA files or Chaku-uta full® which are protected with copyright protection technology.
● When downloading the music data from web pages on the Internet, check use conditions (license, prohibited acts, etc.) carefully before use.
● WMA files, which are protected with copyright protection technology, are played using the information unique to the FOMA terminal. When the information unique to the FOMA terminal is changed due to a failure, repair, upgrade and others, WMA files, which are saved before change, may not be able to be played.
● DOCOMO shall not be liable for handling of CCCD (Copy Controlled CD) or even if you cannot save music data as a WMA file.
● You can use music data saved on the FOMA terminal or the microSD Card for personal use only. Refrain from infringing upon intellectual property rights of a third party's copyrighted material. Do not copy or transfer music data saved on the FOMA terminal or the microSD Card to PC or any other medium.

Music&Video Channel

※ The Music&Video Channel service is provided in Japanese.

Music&Video Channel is a service that up to approximately 2 hour music programs are automatically distributed at night if your favorite programs such as music programs are set in advance.

● Music&Video Channel is a paid service that requires a subscription (i-mode and the flat-rate i-mode packet communication service are also required to be subscribed).
● Some programs may require a separate fee in addition to Music&Video Channel service charge.
● If you insert the docomo mini UIM card to the FOMA terminal, which does not support Music&Video Channel, after subscribing Music&Video Channel, you cannot use Music&Video Channel. However, a service usage fee is incurred unless you cancel Music&Video Channel subscription.
● During international roaming, setting or acquiring programs is not available[*]. When going abroad, deactivate the distribution of programs in advance. Also, after returning to Japan, activate the distribution again.
  * When programs are attempted to be set or acquired during international roaming, packet communication charges are incurred for connecting to i-mode.
● If you cancel i-mode or Music&Video Channel or delete My Menu registration, the program data in the Delivery program folder may be deleted.

● Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on Music&Video Channel.

Setting programs

1. **In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [Music&Video Channel] ▶ [Program setting]**

2. **Follow instructions on screen and set a program**
   ● [🎵] appears in the stand-by display 12 hours before the program distribution. The acquisition of the program is automatically performed at night. When the acquisition is successfully completed, the stock icon [🎵] appears. When the acquisition is failed, [🎵] appears. In this case, acquire the program manually.

Playing programs

1. **In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [Music&Video Channel]**

2. **Select a program**

Downloading Chaku-uta full®

You can save Chaku-uta full® downloaded from sites.
● You can download up to 5 MB Chaku-uta full®.

1. **While viewing sites, select Chaku-uta full®**

2. **[Save] ▶ select a save destination**

Playing music data

1 **In the Normal menu, [Data box]▶ [MUSIC]**

2 **Select music data**

Screen layout and operations for MUSIC Player screen

MUSIC Player screen layout
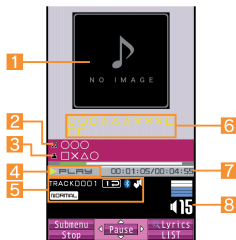
1 **Jacket image**
2 **Title**
3 **Artist's name**
4 **Playback status**
5 **Icon display position**
6 **Uta-moji Lyrics**
7 **Play time/Total time**
8 **Volume**

Key operations for MUSIC Player screen

Pause/Play	⊙
Stop	✉
Adjust volume	🔘
Mute/Disable	⏢
Play previous song/ Return to beginning of song*	⮐
Fast reverse	⮐ (for at least 1 second)
Play next song	⮑
Fast forward	⮑ (for at least 1 second)
Jump to a start position assigned to a key	①: Beginning ② to ⑨: Positions divided by one-ninth increments of the total playback time
Add to Quick playlist	⌗
Show lyrics	📷
Search lyrics	📷 ▶ [Yes]
Display the list screen of music data for playback	ⓘ
End MUSIC Player	⬛ ▶ [Yes]

*   Playback time is less than approximately 2 seconds: Play previous song
  Playback time is approximately 2 seconds or more: Return to beginning of song

i-αppli/i-Widget

Activating i-αppli

i-αppli is software for the i-mode compatible terminal. Download various software from i-mode sites for more convenient use of the FOMA terminal, such as updating stock prices or weather information automatically or enjoying games without connecting to the network.

- For use overseas, packet communication charges differ from those in Japan.
- Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-αppli.
- To use preset software again after deleting, you can download it from the iMenu site, [SH-MODE] (in Japanese only).

  [iMenu] ▶ [メニューリスト] (menu list) ▶ [ケータイ電話 メーカー] (mobile phone manufacturer) ▶ [SH-MODE]

  QR code to connect to the site

  - Packet communication charges are incurred when downloading.

1 **In the Normal menu, [i-αppli] ▶ [Software list]**

2 **Select software to activate**

- Packet communication charges are incurred for some software.

Activating Widget Appli

i-Widget is a convenient function used to easily access to frequently used contents and tools (Widget Appli) such as calculator/ clock, memo, and stock prices.
Widget Appli can be added by downloading from sites.
If you paste the Widget Appli on the i-Widget screen, you can use it quickly next time.

- If the i-Widget screen is displayed, multiple Widget Appli may communicate.
- Packet communication charges are incurred when detailed information are viewed.
- Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-Widget.
- For use overseas, packet communication charges differ from those in Japan.

1 **In stand-by, 1 (for at least 1 second)**

- i-Widget screen appears.

2 **Select Widget Appli**

3 **⊠/CLR**

- Widget Appli is pasted on the i-Widget screen.
- To end Widget Appli: ⓘ ▶ [YES]

i-motion/Movie

Playing i-motion downloaded from sites

i-motion refers to image, voice and music data. You can download i-motion to the FOMA terminal from i-motion compatible sites, etc. and play it.

● The following shows i-motion that can be played.

Type	Description
Standard type (can be saved*)	Play after downloading data.
	Play while downloading data.
Streaming type (cannot be saved)	Play while downloading data at the same time. Data that you finished playing will be deleted, and they cannot be played repeatedly or saved in the FOMA terminal.

* Some standard type i-motion cannot be saved.

● You can play saved i-motion using the i-motion player.

1 While viewing sites, select i-motion

● To save i-motion: While i-motion is played/paused, 🔳 ▶ [Save] ▶ point the cursor to the folder ▶ 📷
 • When playing i-motion finished: [Save] ▶ point the cursor to the folder ▶ 📷

Playing movies downloaded from sites

Play movies provided in portal sites or movie dedicated sites on the Internet with Internet movie player of the FOMA terminal.

● Internet movie player supports the playback of Windows Media Video and Windows Media Audio.
● Making a communication with large-volume data such as streaming type movie without download limits for Full Browser will lead to higher packet communication charges.
● The following shows the movie that can be played.

Type	Distribution system	Description
Streaming type	Live distribution	Movie is distributed in real time.
	On-demand distribution	Movie prepared on server in advance is distributed.

1 While viewing sites, select a movie ▶ [Yes]

● To play movies saved to the Import folder of the microSD Card: In the Normal menu, [Tool] ▶ [microSD] ▶ [Import] ▶ [i-motion/Movie] ▶ select a movie

i-concier

※ The i-concier service is provided in Japanese.

i-concier is a service to support your life like a butler or a concierge. It can keep your various data and timely provide contents of memo or schedule, and information tailored to your living area, current location or hobby and interests. i-concier information is provided by Machi-chara (a character in the stand-by display) in the stand-by display.

- i-concier is a paid service that requires a subscription (i-mode subscription is required).
- If non-subscribers of the Data Security Service newly subscribe to i-concier, they are supposed to be subscribers of the Data Security Service.
- In addition to monthly usage fees of i-concier, a separate fee may be incurred depending on contents (information, i-schedule, etc.).
- Packet communication charges are incurred for receiving information excluding some cases.
- Packet communication charges are incurred for using detailed information.
- Packet communication charges are incurred for receiving information and viewing detailed information during international roaming. In addition, for use overseas, packet communication charges differ from those in Japan.
- To use i-concier overseas, overseas settings for i-concier are required.
- Packet communication charges are incurred for automatically updating i-schedule, memo, ToruCa, phonebook, etc.

- Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-concier.

Receiving information

A popup message appears in the stand-by display and notifies you when information is received or the set time of today's schedule or the set time of schedule alarm arrives.

1 **A popup message appears in the stand-by display ▶ ●**

2 **Select the popup message**
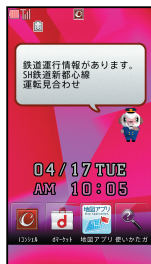
"ひつじのしつじくん®"
©NTT DOCOMO

Displaying i-concier screen

1 **In the Normal menu, [i-concier]**

2 **Select the function icon**

Convenient Tools

Using Shabette-Kensaku

You can enter the keyword by voice and search the site by connecting to i-mode.

● Packet communication charges are incurred when using Shabette-Kensaku.

1 **In the Normal menu, [Tool] ▶ [Shabette-Kensaku]**

● When you activate Shabette-Kensaku for the first time, select [Use].

2 **When [Speak keyword in Japanese] appears, speak the contents to search to the mouthpiece**

● Speak within approximately 10 seconds. When you stop speaking, approximately 10 seconds pass or you press ●, the voice input ends and search results are displayed.

● Talk in a natural way. In the following cases, Shabette-Kensaku may not work properly.
  ■ When the voice is too loud or too low
  ■ When the surrounding noise is big
  ■ When the phonation is not clear
  ■ When the phonation is not natural
  ■ When the phonation speed is too fast
  ■ When you push buttons or touch the mouthpiece

Using Quick voice activation

※ Quick voice activation function is provided in Japanese.

You can retrieve and execute a function with voice in the stand-by display.
It is convenient when you cannot find the menu of function to use or when you want to activate a function immediately.

1 **In stand-by, ⌷ (for at least 1 second)**

2 **When [それではど うぞ ★★音声受 付中★★] (Go ahead ★★ Receiving voice★ ★) appears, speak the function to use to the mouthpiece**
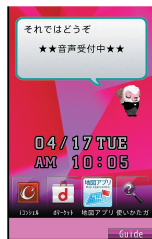
"ひつじのしつじくん®"
©NTT DOCOMO

- Speak within approximately 10 seconds. When you stop speaking, approximately 10 seconds past or you press ⦿, the voice input ends and applicable function is activated.
- Guide (in Japanese only) is activated when the function to be used is not specified.

- Talk in a natural way. In the following cases, Quick voice activation may not work properly.
  - When the voice is too loud or too low
  - When the surrounding noise is big
  - When the phonation is not clear
  - When the phonation is not natural
  - When the phonation speed is too fast
  - When you push buttons or touch the mouthpiece

Using schedules

- Be sure to set the date and subject.
For Normal

1 **In the Normal menu, [Tool]▶ [Schedule]▶ 🗐 ▶ [New entry]**

2 **Set each item▶ 🔊**

Using alarm

1 **In the Normal menu, [Tool]▶ [Alarm]**

2 **Select a number to save**

3 **Set each item▶ 📷**
- To switch items: ⊗

Using bar code reader

1 **In the Normal menu, [CAMERA/TV/ MUSIC]▶ [Camera]▶ [Scanning camera]▶ [Bar code reader]**

2 **Display bar code to be scanned in the center of the screen▶ ⦿**
- Position the camera 10 cm or more from the bar code (JAN/QR codes). Keep aligned and do not move the FOMA terminal or code while scanning.

3 **Use the scanned results**

Using Bluetooth function

You can connect the FOMA terminal to Bluetooth devices wirelessly.
- Wireless communications with all the Bluetooth devices are not completely guaranteed.
- Electromagnetic signals from the Bluetooth device may affect the operation of electronic medical equipment. As some cases may result in accident, turn off the FOMA terminal and other Bluetooth devices in the following place.
  - On trains ■ On airplanes ■ In hospitals
  - Nearby automatic doors or fire alarms
  - In places such as gas stations where flammable gas is generated

Registering Bluetooth devices on FOMA terminal

● To register a Bluetooth device, the Bluetooth passkey must be entered. Before starting the registration, enter the same user-specified 4- to 16-digit number on the FOMA terminal and the other party's Bluetooth device.

● Switch the other party's Bluetooth device to the registration stand-by status in advance.

1 In the Normal menu, [Tool] ▶ [Bluetooth] ▶ [List/cnnct/discnct]

   ● The device list screen appears when registered device exists. Press 回 and proceed to step 3.

2 [Yes]

3 Point the cursor to the Bluetooth device to register ▶ 💬 ▶ [Register Devices]

4 Enter the Bluetooth passkey

● Entering the Bluetooth passkey may not be required depending on the other party's Bluetooth device.

Connecting with Bluetooth devices

1 In the Normal menu, [Tool] ▶ [Bluetooth] ▶ [List/cnnct/discnct]

2 Select a Bluetooth device to connect to

Using Wi-Fi

The FOMA terminal supports Wi-Fi and allows you to connect to the Internet using Full Browser via the access point at home or public wireless LAN service.

IEEE 802.11n

● 5.2GHz/5.3GHz/5.6GHz (W52/W53/W56) is not supported.

● MIMO (Multiple Input Multiple Output) is not supported.

● 40MHz radio-frequency bandwidth system (HT40) is not supported.

Using access point mode

Set the FOMA terminal to the access point (base unit) and connect the Wi-Fi compatible device (sub unit) to use services such as playing games.
Also, use the FOMA terminal as an access point to connect Wi-Fi compatible devices within local area network.

● An access point mode is not available overseas.

● Subscription to Internet service provider such as mopera U is necessary for using an access point mode.

● Packet communication charges when using an access point mode are same as when connecting a PC or PDA, etc. Note that making a communication with large-volume data will lead to higher communication charges.

⊞ Setting use of access point mode

1 **In the Normal menu, [Tool]▶ [Wi-Fi]▶ [AP mode (base unit)]**
- The access point mode screen appears.

2 **Select an item**
- ◆ [Start AP mode]/[Start AP mode (local)]
- ◆ [Cnncted dev(sub) list]▶ select the Wi-Fi compatible device▶ set each item▶ 📷
- ◆ [Stop AP mode]▶ [Yes]

⊞ Setting access point mode

1 **In the access point mode screen, 📋**

2 **Select an item**
- ◆ [Wireless setting]▶ enter the terminal security code▶ set each item▶ 📷
- ◆ [Host (APN) list]
- ◆ [External device list]▶ select a Wi-Fi compatible device▶ set each item▶ 📷
- ◆ [Set local transmission]▶ select the setting
- ◆ [Reset settings]▶ enter the terminal security code▶ [Yes]

Using client mode

You can connect to the access point at home or public wireless LAN service via Wi-Fi and use the Internet.
- You cannot use the i-mode via Wi-Fi.
- Note that switching from Wi-Fi to FOMA network charges a packet communication and leads to higher communication charges. Also, note that it does not return to Wi-Fi automatically when switching to FOMA network.

⊞ Setting use of client mode

1 **In the Normal menu, [Tool]▶ [Wi-Fi]▶ [Client mode (sub)]**

2 **Select an item**
- ◆ [Connection(automatic)]
- ◆ [Register new host]▶ select the registration method
- ◆ [Host list]▶ point the cursor to the access point▶ 📷▶ set each item▶ 📷
- ◆ [Disconnect/Stop]

Data Management

Using microSD Card

You can save data, such as the phonebook, mail or bookmark in the FOMA terminal to microSD Card or import data in microSD Card to the FOMA terminal.
microSD Card is sold separately.
You can purchase microSD Card and its adapter at home electronics shops.

- SH-05D is compatible with commercially available microSD Card of up to 2 GB and microSDHC Card of up to 32 GB (as of January 2012). Refer to the following sites (in Japanese only) for the latest information such as the manufacturer, available capacity, etc. of the microSD Card. In addition, for microSD Cards that are not provided in the sites, contact the manufacturer of each microSD Card.
  - From i-mode [SH-MODE] (as of January 2012)

    [iMenu] [メニューリスト] (menu list) [ケータイ電話メーカー] (mobile phone manufacturer) [SH-MODE]
  - From a PC

    http://k-tai.sharp.co.jp/support/d/sh-05d/
    Note that the provided information is the information checked for operation. DOCOMO shall not be liable for all operations.
- Do not insert or remove a microSD Card while the FOMA terminal is on. Data may be damaged and operation may not work properly.

- Do not remove the microSD Card or turn off the FOMA terminal immediately after inserting the microSD Card in the FOMA terminal or while editing data on a microSD Card. Data may be damaged and operation may not work properly.
- Format unformatted microSD Cards on the FOMA terminal before use. microSD Cards formatted on PCs or other devices may not be used properly by the FOMA terminal.
- When a microSD Card formatted on another FOMA terminal or PC is used, the displayed folder name may differ.
- Since some types of microSD Cards do not support copyright protection functions, they may not be formatted. There is no guarantee for the save and copy of data of the microSD Card because it is unsupported by FOMA terminal.
- When a microSD Card used on another FOMA terminal or PC is inserted, it may not be used.
- Back up the data saved in a microSD Card and store in another place. DOCOMO shall not be liable for any loss or change of the saved data.

Inserting/Removing microSD Card

1. Slowly insert the microSD Card with the metal terminal side turned down

- Push slowly with a finger until a click is heard.
- Gently push the microSD Card in before removing.
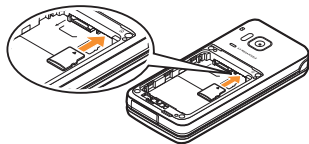
- Note that excessive force may damage the FOMA terminal or microSD Card.
- Keep your face away from microSD Card when inserting or removing card. When taking your fingers off abruptly, card may pop out.

Formatting microSD Card

- Note that all the data in the microSD Card is deleted when formatted.

1. In the Normal menu, [Tool] ▶ [microSD] ▶ 📷

2. Enter the terminal security code ▶ [Yes]

Copying data to microSD Card/ FOMA terminal

Example: i-motion

1. In the Normal menu, [Data box] ▶ [i-motion/Movie] (▶ [→microSD])*
   * When the save destination is microSD

2. Point the cursor to i-motion ▶ MENU ▶ [Move/Copy] ▶ [Copy to microSD]/ [Copy to the phone]

3. Select the copying method

Backing up data to microSD Card

You can collectively backup data, such as phonebook or mail, and each setting information.

1 **In the Normal menu, [Tool]▸ [microSD]▸ [Backup/Restore]**

2 **[Backup to microSD]▸ enter the terminal security code▸ [Yes]**

● When backing up the phonebook, a confirmation screen asking whether to save the profile appears.

Sending and receiving data via Ir communication

15°
15°

Infrared port
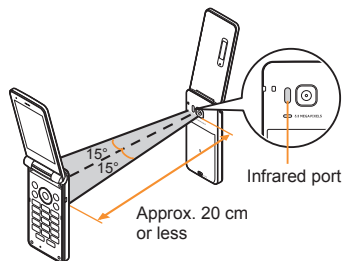
Approx. 20 cm or less

● Face the infrared ports of the receiver's and sender's FOMA terminal each other and set the distance between them to approximately 20 cm or less.

Sending data

Example: Phonebook

1 **In stand-by, ⊙**

2 **Point the cursor to the name▸ MENU▸ [Send data]▸ [Send Ir data]**

3 **Select the sending method**
   ◆ [Send]
   ◆ [Send all]▸ enter the terminal security code▸ enter the authentication password

4 **[Yes]**

Receiving data

1 **In the Normal menu, [Tool]▸ [Infrared]▸ [Receive infrared data]**

2 **Select the receiving method**
   ◆ [Receive]▸ [Yes]
   ◆ [Receive all]▸ enter the terminal security code▸ enter the same authentication password as the sender's▸ [Yes]

3 **[Yes]**

Connecting to PC

By connecting the FOMA terminal and your PC, exchange WMA files and images in the microSD Card. In addition, connect to the Internet and perform data communication.

- FOMA USB Cable with Charge Function 02 (sold separately) or FOMA USB Cable (sold separately) is required.
- For a data communication, installation of the "FOMA communication configuration file" (Driver) is required.
  Refer to "Manual for PC Connection" for details. You can download "FOMA communication configuration file" and "Manual for PC Connection" from the DOCOMO website.
  http://www.nttdocomo.co.jp/support/ (in Japanese only)

DOCOMO Connection Manager

DOCOMO Connection Manager is a software which is convenient for using data communication of DOCOMO. Easily set the PC depending on the subscription. In addition, use the charge counter function to check the approximate communication charges or usage fee.
Refer to the DOCOMO website for details.

http://www.nttdocomo.co.jp/support/utilization/application/service/connection_manager/ (in Japanese only)

Support

Troubleshooting

- First, check whether the software update is required. If it is required, update the software (☞P. 86).
- If there is no improvement in problems even after checking the following items, feel free to contact the number listed in "Repairs" (in Japanese only) on the back of this manual or a repair center that DOCOMO specifies.

■ Power

The FOMA terminal is not turned on

● Is the battery pack attached properly?	P. 28
● Make sure the battery has not run out.	–

■ Charging

Cannot charge the battery (Charging LED does not illuminate or it flashes)

● Is the battery pack attached properly?	P. 28
● Are the adapter power plug and the cigarette lighter plug inserted into the outlet or cigarette lighter socket properly?	P. 31
● Are the adapter and the FOMA terminal set properly?	P. 31
● When using the AC adapter (sold separately), is the connector of the AC adapter properly connected to the FOMA terminal?	P. 31
● If calling, transmitting or another function is performed for a long time while charging, the FOMA terminal may become warm and charging LED may flash. Charge again after the terminal temperature lowers.	–

Charging is not completed (The battery level decreases despite of charging)

● Charging may not be completed during calling and communication. Also, the battery level decreases and charging may not be completed depending on the battery adapter you use if charging is started while watching/recording 1Seg, playing movies/i-motion, getting Music&Video channel programs, starting Music&Video players and music players, operating i-αppli and using the camera. This is not a malfunction. To complete charging, we recommend you to charge after finishing the operations.	–

Cannot charge with the accompanying wireless charger (Charging information is not illuminated)

● Is the exclusive AC adapter used?	P. 29
● Are the power plug and connector of the exclusive AC adapter securely inserted?	P. 29
● Make sure there is no foreign object between the wireless charger and the FOMA terminal or battery pack.	P. 29
● Charging has been completed or nearly completed.	P. 29
● Have you put the FOMA terminal or battery pack around the center of the charging area?	P. 29
● Place the FOMA terminal or battery pack in the right direction.	P. 29

Cannot charge with the wireless charger (Charging information flashes quickly)

● Is the exclusive AC adapter used? Also, make sure there is no malfunction. If the situation has not improved even after the exclusive AC adapter is connected, unplug the power plug from the outlet and insert it again a few seconds later.	–

● Make sure there is no foreign object between the wireless charger and the FOMA terminal or battery pack.	P. 29
● Put the FOMA terminal or battery pack around the center of the charging area.	P. 29

Cannot charge with the wireless charger (Charging information flashes slowly (flashes for approximately two seconds)

● Make sure the temperature of the FOMA terminal or battery pack is not too high or too low. Put the FOMA terminal or battery pack in a place where the temperature is between 5°C and 35°C for a while before charge.	–

Charging time with the wireless charger is long

● Make sure the temperature of the place for charging the FOMA terminal/battery pack is not too high or too low. Charge in a place where the temperature is between 5°C and 35°C.	–

▉ Terminal operation

Becomes hot while operating/charging

● Temperature of the FOMA terminal, battery pack or adapter may rise while operating or charging or when performing i-αppli, making a videophone call or watching 1Seg for a long time, etc. while charging. There is no safety hazard.	–

Battery usage time is short

● Make sure the battery pack is not left for a long time outside the service area. Outside the service area, since electric waves are searched to make communication available, more electric power than usual is used.	–

● The usage time for the battery pack depends on the usage environment and deterioration level.	–
● Battery pack is a consumable product. Service time per charge is gradually reduced every time the battery is charged. Purchase a specified new battery pack if the usage time becomes extremely shorter than when the battery was purchased even after fully charged.	–

Power turns off/The FOMA terminal restarts

● Unclean terminals for the battery pack may result in poor connections and loss of power. Wipe with a dry cotton swab etc.	–
● Make sure the IC portion of the docomo mini UIM card is not dirty.	P. 28

Not activated by pressing keys

● Make sure All lock is not set.	P. 47
● Make sure the FOMA terminal is not turned off.	P. 31

docomo mini UIM card does not recognize

● Is a docomo mini UIM card inserted facing right direction?	P. 28

Clock is incorrect

● Clock may become incorrect if the power is turned on for a long time. Make sure Auto time adjust is set to [ON] and turn the power on again in a location with good signal conditions.	–

▉ Calling

Calls cannot be made with the dial

● Make sure All lock is not set.	P. 47
● Make sure Keypad dial lock is not set.	P. 47
● Make sure self mode is not set.	P. 47

Connection cannot be made ([圏外] does not disappear even after moving to another place or calls cannot be made/received even though signal status is not bad)

● Turn the power on again or attach the battery pack or docomo mini UIM card again.	P. 28 P. 31
● Depending on the signal type, even though status is "inside the service area" or "[Tᵢₗ] (indicating signal status) appears", making/receiving a call may not be available. Move to another place and call again.	P. 33
● Make sure Accept call from specified caller/ Reject call from specified caller is not set.	–
● In crowded place, heavy telephone/mail traffic may be caused and make it difficult to get a connection. In such case, [Please wait] appears and a busy signal is played. Move to another place or call again later.	–

📷 Camera

Still pictures and moving pictures shot by the camera are not clear

● Set the focus setting to [Closeup] when shooting a near subject.	P. 65
● Make sure the camera lens is neither misted up nor exposed to dirt.	P. 64
● Use the focus lock.	–
● Set the Face recognition AF of the focus setting to [ON] when shooting a person.	P. 65
● Set Fix camera shake to [Auto] (still picture)/[ON] (moving picture).	–

Warranty and After-Sales Service

Warranty

● Make sure that the warranty card is included with your FOMA terminal at the time of purchase. Check that the name of the retailer, the date of purchase, and the necessary details have been filled in on the warranty card. Be sure to keep it in a safe place. Contact the retailer if any necessary details on the warranty card are not completed.
The warranty period without charge is 1 year from the date of purchase.

● For the purpose of improvement, the specifications for this product and its accessories are subject to complete or partial change without prior notice.

After-Sales Services

📠 If you have problems with your FOMA terminal

Refer to "Troubleshooting" in this manual or "Guide" (in Japanese only) contained in the FOMA terminal before requesting repairs.
Contact the number listed in "Repairs" (in Japanese only) on the back of this manual if problems persist.

📠 If your FOMA terminal needs repairs after contacting DOCOMO

Bring your FOMA terminal to a repair counter that DOCOMO specifies. However, the repair shop is only open during business hours. Note that it may take several days to repair depending on the damaged condition.

During the warranty period

● The FOMA terminal will be repaired without charge in accordance with the terms of the warranty.

- When bringing the FOMA terminal in for repairs, be sure to bring the warranty card. Even during the warranty period, a fee will be charged for repairs of malfunctions or damage caused by your improper handling (damage of display and connector) if no warranty certificate is presented.
- Repairs for damages caused by the use of devices and accessories other than those specified by DOCOMO will also incur a fee, even during the warranty period.

Repairs may not be possible in the following circumstances.

- When a repair counter considered water exposure (Example: When the moisture detection seal has reacted)
- As a result of inspection, when damage from water exposure, condensation, sweat or other liquids are found or when the internal circuit board is damaged or deformed (Repairs may not be possible when external connector terminal (earphone/microphone terminal), display, etc. is damaged or when a housing is cracked)
- ※ Even when repairs are possible, repair charges will be incurred because the warranty does not cover such damage.

After the warranty period has expired
Charged repairs will be carried out upon request.

Replacement parts
Replacement parts (required to maintain the functionality of the FOMA terminal) will be kept in stock basically for 6 years following production. However, note that there may be a case when repair is not possible for the shortage of replacement parts depending on the faulty part.

🔧 IMPORTANT!

- Never attempt to modify the FOMA terminal or its accessories.

- Repairs may be refused depending on the extent of the modification.
  The following cases may be considered as a modification.
  - Stickers are applied to the display or keys
  - Decorations are made to the FOMA terminal with adhesive agent
  - Exterior parts are replaced with those which are not standard DOCOMO product
- Repairs for any malfunction or damage caused by such modifications will incur fees, even during the warranty period.
- Do not peel off the model nameplate attached to the FOMA terminal.
  - If the nameplate seal does not function as a certification, repairs may be refused because conformity to the standards cannot be determined.

技術基準適合認証品

- Information stored in your FOMA terminal, such as the settings of various functions, may be cleared or reset if your FOMA terminal is damaged, repaired or mishandled.
  - If this occurs, please re-enter the information or re-specify the settings.
- When the FOMA terminal is repaired, MAC address for Wi-Fi and Bluetooth address may be changed regardless of the faulty part.
- The following sections of the FOMA terminal contain parts that generate magnetic waves. Keep ATM cards and other objects likely to be affected by magnetic waves away from the FOMA terminal. Cards may become unusable.
  - Sections: speaker, earpiece
- This FOMA terminal is waterproof/dust-proof, however, if the inside of the FOMA terminal gets wet or becomes moist, immediately turn off the power and remove the battery pack. Then, visit a repair counter. The FOMA terminal may not be repaired depending on its condition.

Error information send setting

When an error has occurred in the FOMA terminal, this function sets to send the recorded error information to DOCOMO.

● Although an error has occurred, it may not be recorded depending on the error type.

● The recorded information is sent to docomo at night.

● Packet communication charges for sending error information are not incurred.

● The sent information does not include the information that specify individuals.

1 **In the Normal menu, [Setting]▶ [Other setting]▶ [Error info send set.]▶ enter the terminal security code▶ select the setting**

i-mode fault diagnosis site

※ The i-mode fault diagnosis site is only available in Japanese.

You can check whether the FOMA terminal can normally send and receive mails, download images or melodies or perform other operations. When a malfunction is found after checking, contact the number listed in "Repairs" (in Japanese only) on the back of this manual.

Accessing the "i-mode fault diagnosis site"

i-mode site: [iMenu]▶[お知らせ] (notice)▶[サポート情報] (support information)▶[お問い合わせ] (inquiries)▶[故障・電波状況お問い合わせ先] (inquiries about fault/signal status)▶[ｉモード故障診断] (i-mode fault diagnosis)

QR code to connect to the site

● Overseas use is charged.

Updating software

This function checks if the FOMA terminal needs to be updated by connecting to network, and if necessary, updates software by downloading a part of software using packet communication.

● If updating software is necessary, check the DOCOMO website or "お客様サポート" (user support) (in Japanese only) on iMenu for updates. When updating, select "Auto-update", "Now update" or "Reserve".

● You can update software even if the FOMA terminal contains phonebook, camera image, downloaded data, etc. However, DOCOMO cannot protect some data that could be lost due to malfunction, damage, water exposure and so on. It is recommended that important data be backed up before updating. Note that some data, such as downloaded data, cannot be backed up.

♻ Using software update

● Do not remove the battery pack while the software is updating. Failure to update software may occur.

● Recharge battery before updating software.

● Updating (downloading and rewriting) software may take time.

● Making/Receiving calls, communication functions, Clean Up and other functions cannot be used while software is being updated (Receiving voice calls is possible during download).

- It is recommended to update software at a location with a strong signal (three bars for the antenna icon) and you are not moving. If signal status becomes weak or download is interrupted when downloading software, update software again in a location with good signal conditions.
- When updating software, the information unique to the FOMA terminal (model, serial number, etc.) is automatically sent to the server (DOCOMO software update server). Sent information is only used for software update.
- If software update fails, [Rewrite failed] appears and all operations are not available. In this case, bring the FOMA terminal to a repair center that DOCOMO specifies.

Starting software update from icon

When the software is automatically downloaded, [⟦⟧] appears in the stand-by display.

1 **[⟦⟧] appears in the stand-by display ▶ ⊙ ▶ select [⟦⟧]**

2 **Select the rewriting method**
- To confirm settings: [OK]
- To change settings: [Change]
- To start rewriting: [Now rewrite]

Starting software update from menu

1 **In the Normal menu, [Setting] ▶ [Other setting] ▶ [Software update]**

2 **Enter the terminal security code ▶ [Update]**

3 **Select the update method**

Scan function

Delete or stop activating any data or applications that could cause operational malfunctions. These types of data include data or programs that are downloaded to the FOMA terminal.

- The scan function helps to protect the handset from damage caused by data such as data received from web pages or mails. If the pattern definition corresponding to a particular harmful file is not downloaded or saved, the scan function will not be able to protect the FOMA terminal.

Updating pattern definitions

- First, update pattern definitions to bring them up-to-date.

1 **In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Scanning function] ▶ [Update]**

2 **[Yes] ▶ [Yes]**

3 **[OK] when updating is completed**

Displaying scanned results

▣ Displaying detected errors
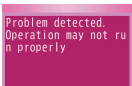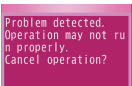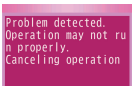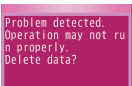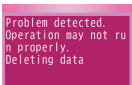
- If you select [Detail] in the warning screen, error names appear. When no error name exists for the contents of the pattern data, [Detail] does not appear.

```
Problem factors
BehaviorLv4
BehaviorLv3
BehaviorLv2
BehaviorLv1
BehaviorLv0
Omitted: Total 6
        OK
```

- Up to five error names appear. Error names after the sixth are skipped and the total number of errors appears when six or more are detected. If same error is detected more than once, it is only listed once.

▓ Displaying scanned results

Level 0	Level 1
Problem detected. Operation may not run properly	Problem detected. Operation may not run properly. Cancel operation?
[OK]: To display/ activate/call	[No]: To display/ activate/call [Yes]: To cancel operation

Level 2	Level 3
Problem detected. Operation may not run properly. Canceling operation	Problem detected. Operation may not run properly. Delete data?
[OK]: To end	[Yes]: To delete the data [No]: To end without deleting

Level 4
Problem detected. Operation may not run properly. Deleting data
[OK]: To delete the data

Options and related devices

Combine the FOMA terminal with various optional accessories (sold separately) for expanded personal and business use. Some products may not be available in certain areas. Contact a docomo Shop or retailer for details.
Refer to the user's guide of each product for more details on optional parts.

- FOMA AC Adapter 01[*1]/02[*1]
- Battery Pack SH34
- Back Cover SH60
- Earphone Terminal P001[*2]
- Flat-plug Stereo Earphone Set P01[*3]
- Flat-plug Earphone/Microphone with Switch P01[*3]/P02[*3]
- Stereo Earphone Set P001[*2]
- Earphone/Microphone with Switch P001[*2]/ P002[*2]
- Earphone/Microphone 01
- Stereo Earphone Set 01
- Earphone Plug Adapter P001[*3]
- Earphone Plug Adapter for External connector terminal 01
- Earphone Plug Adapter 01
- FOMA USB Cable[*4]
- Wireless Earphone Set 02
- FOMA AC Adapter 01 for Global use[*1]
- FOMA DC Adapter 01/02
- FOMA Indoor Booster Antenna[*5]
- In-Car Hands-Free Kit 01[*6]
- FOMA In-Car Hands-Free Cable 01
- In-Car Holder 01
- FOMA Dry Battery Adapter 01
- Carry Case S 01

- Carry Case 02
- Bone conduction microphone/receiver 01[*3]/02
- FOMA USB Cable with Charge Function 02[*4]
- FOMA Portable Charging Adapter 01/02/03
- FOMA Indoor Booster Antenna (Stand Type)[*5]
- FOMA eco Solar Panel 01
- Wireless Charger SH01[*5]
- Wireless Charger 01[*5]

*1 Refer to P. 31 for details on charging with an AC adapter.
*2 Earphone Plug Adapter for External connector terminal 01 and Earphone Plug Adapter are required.
*3 Earphone Plug Adapter for External connector terminal 01 is required.
*4 The use of USB HUB may prevent working correctly.
*5 For use only in Japan.
*6 FOMA In-Car Hands-Free Cable 01 is required to charge SH-05D.

Appendix

Menu list

- When settings are reset by Reset (☞P. 48), functions return to default settings (marked with ☐).
  - Some items may include functions which do not return to default settings.

Normal menu/Basic menu list

- Depending on the Kisekae tool set in the Normal menu, the function names may differ from those described.

Mail menu

Inbox	
Outbox	
Unsent messages	
Compose message	
Create new Decome-Anime	
Decome-Template	Deco-mail
	Decome-Anime
Compose new SMS	
Check new mail/message	
Check new SMS	
Receive option	
Decome-Item	Pattern conversion
	Font

Mail setting	Receive setting
	Display
	Edit signature
	Common phrases/Store word
	Check new mail/message setting
	Reply setting
	Blog/SNS settings
	Mail group
	Address/Spam setting
	Auto save setting when editing
	SMS settings
	Early warning "Area Mail" setting
Mail logs	Sent msg. log
	Received msg. log

🔳 i-mode/web menu

iMenu 🔍 Search	
Bookmark	
Screen Memo	
Browsing history	
Enter URL	Enter URL
	URL enter history
i-Channel	i-Channel list
	Ticker display set.
	Reset i-Channel
RSS reader	
Access shortcuts	

i-mode/web setting	i-mode Browser Set.
	FB settings
	Common Settings
	Check i-mode setting
	Reset i-mode setting
Full Browser Home	

🔳 i-αppli menu

Software list	
i-αppli call logs	
i-αppli run information	Start failure hist
	Abnormal exit hist
	Security error hist
	Trace information
i-αppli setting	Sound effect volume
	Software info disp.
	Auto-start
	i-Widget settings
	Sort software
	Display light time
	Vibration mode
	i-αppli shortcuts
	i-αppli power saver
	i-αppli call DL set

🔳 CAMERA/TV/MUSIC menu

Camera	Still image shooting
	Movie shooting
	Toy camera
	Arrange camera
	Multishot camera
	Scanning camera
	Make deco camera
	Still image album
	Movie play

1Seg	Activate 1Seg
	Program guide
	1Seg image/video
	TV timer list
	Recording result
	TVlink
	Channel setting
	User setting
MUSIC Player	
Music&Video Channel	

🔲 Data box menu

My picture
MUSIC
Music&Video Channel
i-motion/Movie
Melody
Content package
My document
Kisekae Tool
Machi-chara
Chara-den
1Seg
Other
Data search
Album
Home network

🔲 Tool menu

Bar code reader	
Calculator	
Alarm	
Infrared	Receive infrared data
	Send all infrared data
	Data exchange settings
Schedule	
Memo	
Countdown timer	
Voice recorder	
Bluetooth	Accept registered
	Receive data
	Send all via BT
	List/cnnct/discnct
	Register new dev
	Bluetooth Power ON/ Bluetooth Power OFF
	Bluetooth setting
Wi-Fi	Client mode (sub)
	AP mode (base unit)
	Home network setting
Presentation	
Manga&BookReader	
Document Viewer	
Quick search	
Data Security Service	Data check/Download
	Update phonebooks
	Update schedule etc
	Update images
	Update setting information
	Detailed setting/Exchanging history

microSD	Data box
	PIM
	ToruCa
	Used by i-αppli
	Decome-Anime
	Manga&BookReader
	Backup/Restore
	Other
	Indiv backup/restore
	Import
Guide	
Common phrases/Store word	Common phrases
	Store word
Download dictionary	
Voice Quick Start	
Shabette-Kensaku	
Contact DOCOMO	ドコモ総合案内・受付
	ドコモ故障問合せ
	海外紛失・盗難等
	海外故障

▓ **TEL function menu**

Phonebook	Search phonebook
	Add to phonebook
	UIM operation
	Add group
Record message/Voice memo	Record message list
	Voice memo list
	Record voice memo
	Record message
Dialed/Received calls	Received calls
	Redial

Dial/Receive call setting	Nuisance call blocking service
	Caller ID request
	Caller ID notification
	Arrival call act
	Dial call detailed setting
	Receive call detailed setting
	In-call detailed setting
	Headset function setting
	Call rejection setting
	Missed call notification
	Sound & Image
Videophone setting	V.phone dialing img.
	Videophone receiving
	Data session arv. Act
	Operation
	Image setting
	Notify switchable mode
Call duration/charge	Call charge
	Call duration
	Reset call cost
	Call cost limit
	Hide call cost icon
Disaster Voice Messaging	
Koe-no-Takuhaibin	Message confirm/set(site)
	Message confirm(voice)
	Settings(voice)
2in1	2in1 mode switching
	Ph.book 2in1 setting
	Stand-by display setting
	Call/receive settings
	2in1 function OFF
	Receive avoidance
Melody Call	

Voice mail service	Activate
	Ring time
	Deactivate
	Check setting
	Play messages
	Setting
	Check messages
	Tone/Vibration message notification
	Delete icon
	Setting for videophone
Other network service	Call forwarding
	Call waiting
	English guidance
	Remote access
	Multi Number
	Dual network
	Additional service
	OFFICEED

🔧 Setting menu

Screen/Display	Kisekae Tool setting
	Stand-by display setting
	MyFACE setting
	Color theme setting
	Display img quality
	VeilView
	Each display setting
	Sub-display setting
	Machi-chara setting
	Menu preference

Sound/Vibration/ Manner	Ring tone
	Other sounds
	Adjust volume
	Vibration mode
	Silent mode
	BGM play
	Machi-chara chat setting
Backlight/Illumination	Display light
	Light alert
Text display/input	Font size
	Font style
	Text input
	バイリンガル
Time	Date and time setting
	Clock format
	Auto power ON/OFF
Lock/Security	Lock settings
	Secret mode
	Privacy setting
	Caller/Sender info
	Keypad dial lock
	Call rejection setting
	Change security code
	UIM setting
	Scanning function
Battery	eco mode
	eco mode auto-start set.
	Battery level
	Battery icon setting
	Icon% temp display

External connection	USB mode
	Bluetooth
	Wi-Fi
	Femtocell
	Data exchange settings
Other setting	Self mode
	Initial setting
	Clean Up
	Delete all data
	Reset
	Disp speed pref mode
	Error info send set.
	Software update
	Check remote setting
	Memory status
Kisekae/Themes	Style theme
	Timed theme

⊞ Map/Overseas menu

Map	
imadoco search	imadoco kantan search
	imadoco search
i-area	
Select Map	
Overseas network search	Network search setting
	PLMN setting
	Display operator name setting
	Display area status
	Re-search icon display setting

Overseas setting	Inquiries(overseas)
	Barring incoming call when roaming
	Missed call notification for roaming
	Roaming guidance
	International dialing assist
	i-mode service setting
	Mail/Message usage setting
	Network service
Overseas user's guide	

⊞ i-concier menu

i-concier

⊞ Profile menu

Profile

⊞ ToruCa menu

ToruCa
ToruCa from 1Seg
ToruCa sound effect

Other functions

Quick Settings	
Shortcut menu	
Videophone	
Manner mode	
Omakase Lock	
Auto-Decome	
Text input	Set input method

Main specifications

📱 Package

Product name	SH-05D
Size	Approx. 110 (H) × Approx. 50 (W) × Approx. 17.3 (D) mm (Approx. 18.1 mm at thickest point) (when folded)
Weight	Approx. 129 g (with battery pack attached)

Continuous talk time *1, 2	FOMA/3G	Voice call: Approx. 310 min
		Videophone: Approx. 140 min (with camera image)
		Videophone: Approx. 180 min (with substitute image)

Continuous stand-by time*2, 3	FOMA/3G	At rest: Approx. 800 hr*4

1Seg watching time	Approx. 380 min

Charge time	AC adapter: Approx. 195 min
	DC adapter: Approx. 195 min
	Wireless charger: Approx. 205 min

Display	Type	Main display: New Mobile ASV LCD 16,777,216 colors Sub display: Organic EL One color
	Size	Main display: Approx. 3.2 inches Sub display: Approx. 0.9 inches
	Pixels	Main display: 409,920 pixels (480 × 854 dots) Sub display: 4,608 pixels (128 × 36 dots)

Image pickup device	Type	CMOS*5
	Size	1/4.0 inches

Camera	Effective pixels	Approx. 5.3 million pixels
	Recorded pixels (Max.)	Approx. 5.0 million pixels
	Zoom (Digital)	Up to approx. 22.0×

Recording	Number of still pictures recorded	Approx. 1,200 shots*6, 7
		Approx. 60,000 shots (when saved in 2 GB microSD Card)*6
	Continuous shooting of still pictures	Std-by: 8 shots/ VGA: 10 shots/QVGA: 40 shots/QCIF: 40 shots
	File format for still picture	JPEG
	Recording time for moving picture	Approx. 26 s each*8
		Approx. 60 min each (when saved in 2 GB microSD Card)*8
	File format for moving picture	MP4

Music playback	Continuous playback time	i-motion: Approx. 510 min*9
		Chaku-uta full® (Compatible with background playback): Approx. 5,400 min*9
		WMA file (Compatible with background playback): Approx. 3,120 min*10
		Music&Video Channel (voice) (Compatible with background playback): Approx. 1,020 min

Music playback	Continuous playback time	Music&Video Channel (moving picture): Approx. 510 min
Memory capacity	Chaku-uta®	Approx. 957 MB[11]
	Chaku-uta full®	
Wireless LAN		Meets IEEE 802.11b/g/n (2.4 GHz)

- "Chaku-uta" is a registered trademark of the Sony Music Entertainment (Japan) Inc.
- [1] Continuous talk time is an estimate of the time during which you can communicate on a phone in a location where the signal is normal.
- [2] The above mentioned talk time and stand-by time are shortened with the use of data communications, Multiaccess, and the camera.
- [3] Continuous stand-by time is an estimate of the time when FOMA terminal is closed and in a status where signals are received. Talk/Stand-by time may be reduced by about half depending on conditions including battery level status, functions used, temperature and other environmental conditions, and signal strength (no signal or weak signal). Using i-mode reduces talk (communication)/stand-by time. In addition, frequent use of each functions such as watching 1Seg, composing i-mode mail and activating downloaded i-αppli or the i-αppli stand-by will also shorten talk (communication)/stand-by time even if calls or i-mode communication are not made.
- [4] Continuous stand-by time is the average usage time when the FOMA terminal is closed when you are not moving and in a status where signals are received.
- [5] CMOS (Complementary Metal-Oxide Semiconductor) is an image device equivalent to the film of silver salt cameras.
- [6] Image size: QVGA (240 × 320 dots)/Image quality: NORMAL/File size: 25 KB

- [7] The number is the number of still pictures that can be shot when not deleting the data (that can be deleted) which is registered in advance.
- [8] Image size: VGA (640 × 480 dots)/Image quality: HIGH QUALITY/File size limit: Unrestricted/Type: Image + voice
- [9] File format: AAC format
- [10] File format: WMA format
- [11] When still picture, moving picture, music, melody, My document, Kisekae tool, Machi-chara, Chara-den, i-αppli, e-book/e-comic, Music&Video Channel, video or ToruCa are saved, the memory capacity of Chaku-uta®/Chaku-uta full® will be small.

❚❚ Battery pack

Product name	Battery Pack SH34
Battery	Lithium-ion
Nominal voltage	3.7 V DC
Nominal capacity	1,150 mAh

❚❚ Wireless charger

	Wireless Charger	Exclusive AC adapter
Input	12V DC 600 mA	100 - 240V AC 50 - 60 Hz 18 - 24VA
Output	Up to 5 W	12V DC 600 mA
Dimension	138 × 90 × 19 mm	70.5 × 30.5 × 45.0 mm (excluding protrusion and cord)
Weight	Approx. 140 g	Approx. 120 g
Temperature for usage	5°C to 35°C	5°C to 35°C
Standard	WPC	–

⯃ Estimated number of saved videos and recording time

	Maximum number of entries	Maximum recording time
FOMA terminal	99	Approx. 300 min
microSD Card (32 GB)*	99	Approx. 10,240 min

* Record up to 2 GB (Approx. 640 minutes) of 1Seg for each time. The recording ends even if you use a microSD Card of more than 2 GB and the available memory space is sufficient.

⯃ Number of saved/registered/ protected entries in the FOMA terminal

Data type		Number of entries to be saved/ registered	Number of entries to be protected
Phonebook		2,000[*1, 2]	–
1Seg	TVlink	50	–
	Reception/ Recording	100[*3, 4]	–
Channel list		10	–
Music&Video channel program		22[*2]	–
Music	Chaku-uta full®	100[*2]	–
	Uta-moji Lyrics	100[*2]	–
	Playlist	10	–
Schedule	Schedule	2,600[*4, 5]	–
	Vacation	30	–
	Holiday	5[*6]	–
Memo		2,600[*4, 5]	–

Data type		Number of entries to be saved/ registered	Number of entries to be protected
Mail (The total number of SMS and i-mode mail)	Received mail	2,500[*2, 7, 8]	2,500
	Sent mail	500[*2, 7]	500
	Unsent mail	500[*2]	500
Area Mail		30	–
Deco-mail templates	Deco-mail	100[*8]	–
	Decome-Anime	100[*8]	–
Decome-Item	Pattern conversion	10	–
	Font	5	–
Message	Message R	50[*2]	25
	Message F	50[*2]	25
Bookmark		200	–
Screen memo		400[*2]	400
Download dictionary		10[*9]	–
i-αppli		100[*2, 8]	–
Image		3,000[*2, 8, 10]	–
Moving picture/i-motion		200[*2, 8]	–
Kisekae tool		50[*2, 8]	–
MyFACE content		12[*11]	–
Machi-chara		50[*2, 8]	–
Chara-den		50[*2, 8]	–
Melody		500[*2]	–
PDF data		100[*2, 8]	–
Word, Excel, PowerPoint		100	–
ToruCa		200[*2]	–
e-book/e-comic		1,000[*2]	–
1Seg video		99[*2]	–
Font (TTF)		3	–
Content package		100[*2]	–
	Individual data	99	–

*1 You can save up to 50 entries in the docomo mini UIM card.

*2 Saved amount may be reduced depending on status of using memory.

*3 Total number of the timers for starting and recording programs.

*4 Saved amount may be reduced depending on status of using memory for starting and recording programs, Schedule and Memo.

*5 Total number of the timers for starting and recording programs, Schedule and Memo.

*6 You can save holidays besides national holidays already saved.

*7 In addition, you can save up to 20 received and sent SMS in the docomo mini UIM card.

*8 Pre-installed data which can be deleted is included.

*9 You can set up to five dictionaries.

*10 Still picture for which 1Seg programs is recorded is included.

*11 The data registered by default which is not removable and the call list are included.

Specific Absorption Rate (SAR) of Mobile Phone

This model SH-05D mobile phone complies with Japanese technical regulations and international guidelines regarding exposure to radio waves.

This mobile phone was designed in observance of Japanese technical regulations regarding exposure to radio waves (*1) and limits to exposure to radio waves recommended by a set of equivalent international guidelines. This set of international guidelines was set out by the International Commission on Non-Ionizing Radiation Protection (ICNIRP), which is in collaboration with the World Health Organization (WHO), and the permissible limits include a substantial safety margin designed to assure the safety of all persons, regardless of age and health condition.

The technical regulations and international guidelines set out limits for radio waves as the Specific Absorption Rate, or SAR, which is the value of absorbed energy in any 10 grams of tissue over a 6-minute period. The SAR limit for mobile phones is 2.0 W/kg. The highest SAR value for this mobile phone when tested for use at the ear is 0.703 W/kg. There may be slight differences between the SAR levels for each product, but they all satisfy the limit.

The actual SAR of this mobile phone while operating can be well below that indicated above. This is due to automatic changes to the power level of the device to ensure it only uses the minimum required to reach the network. Therefore in general, the closer you are to a base station, the lower the power output of the device.

This mobile phone can be used in positions other than against your ear. This mobile phone satisfies the international guidelines when used with a carrying case or a wearable accessory approved by NTT DOCOMO, INC. (*2). In case you are not using the approved accessory, please use a product that does not contain any metals, and one that positions the mobile phone at least 1.5 cm away from your body.

The World Health Organization has stated that "a large number of studies have been performed over the last two decades to assess whether mobile phones pose a potential health risk. To date, no adverse health effects have been established as being caused by mobile phone use."

Please refer to the WHO website if you would like more detailed information.

http://www.who.int/docstore/peh-emf/publications/facts_press/fact_english.htm

Please refer to the websites listed below if you would like more detailed information regarding SAR.

Ministry of Internal Affairs and Communications Website:
http://www.tele.soumu.go.jp/e/sys/ele/index.htm
Association of Radio Industries and Businesses Website:
http://www.arib-emf.org/index02.html (in Japanese only)
NTT DOCOMO, INC. Website:
http://www.nttdocomo.co.jp/english/product/sar/
SHARP Corporation Website:
http://www.sharp.co.jp/products/menu/phone/cellular/sar/index.html
(in Japanese only)
*1 Technical regulations are defined by the Ministerial Ordinance Related to Radio Law (Article 14-2 of Radio Equipment Regulations).
*2 Regarding the method of measuring SAR when using mobile phones in positions other than against the ear, international standards (IEC62209-2) were set in March of 2010. On the other hand, technical regulation is currently being deliberated on by national council (As of October, 2011).

European RF Exposure Information
Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.
The guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit for mobile devices is 2 W/kg and the highest SAR value for this device when tested at the ear was 0.704 W/kg*.
As SAR is measured utilizing the devices highest transmitting power the actual SAR of this device while operating is typically below that indicated above. This is due to automatic changes to the power level of the device to ensure it only uses the minimum level required to reach the network.
The World Health Organization has stated that present scientific information does not indicate the need for any special precautions for the use of mobile devices. They note that if you want to reduce your exposure then you can do so by limiting the length of calls or using a hands-free device to keep the mobile phone away from the head.

* The tests are carried out in accordance with international guidelines for testing.

Declaration of Conformity
This declaration relates to the handset only.

$C \in 0168 \textcircled{!}$

In some countries/regions, such as France, there are restrictions on the use of Wi-Fi. If you intend to use Wi-Fi on the handset abroad, check the local laws and regulations beforehand.

> **Hereby, Sharp Telecommunications of Europe Ltd, declares that this SH-05D is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.**
> **A copy of the original declaration of conformity can be found at the following Internet address:**
> **http://www.sharp.co.jp/k-tai/ (in Japanese only)**

FCC Notice
● This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
● Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Information to User

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient/relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

FCC RF Exposure Information

Your handset is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless handsets employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.

The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model handset when tested for use at the ear is 1.010 W/kg and when worn on the body, as described in this user guide, is 0.662 W/kg.

Body-worn Operation; This device was tested for typical body-worn operations with the back of the handset kept 1.5 cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 1.5 cm separation distance between the user's body and the back of the handset. The use of beltclips, holsters and similar accessories should not contain metallic components in its assembly.

The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

The FCC has granted an Equipment Authorization for this model handset with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model handset is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/ea/fccid/ after searching on FCC ID APYHRO00167.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) Website at http://www.ctia.org/.

About Wi-Fi

Wi-Fi Alliance® conducts an authentication test based on wireless LAN specification IEEE 802.11 to guarantee the mutual connectivity of wireless LAN device. Products which passed the test are authorized as "Wi-Fi Certified™" and their mutual connectivity with products bearing Wi-Fi logos is guaranteed.

Contents of certification

IEEE Standard[*1]

- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n

Security[*2]

- WPA™ - Personal
- WPA2™ - Personal

Special Features

■ Wi-Fi Protected Setup™*3

*1 Means the standard which becomes the base of Wi-Fi authentication based on wireless LAN specification IEEE 802.11.

*2 Means the standard of wireless LAN encryption scheme designed by Wi-Fi Alliance® based on IEEE 802.11i.
- WPA™
  Stands for Wi-Fi Protected Access and means the standard specification of interoperable security expansion.
  Temporal Key Integrity Protocol (TKIP) is used for encryption.
- WPA2™
  Meets IEEE 802.11i standards with authentication stronger than WPA™, and maintains backward compatibility.
  Advanced Encryption Standard (AES) is used for encryption and WPA2™ authentication is currently required for Wi-Fi authentication.
  Conducts an authentication with pre-shared key (WPA/WPA2-PSK) for WPA™ and Personal of WPA2™.

*3 Means WPS function which can set the connection settings of wireless LAN (SSID, authentication method or encryption key) in push-button method or PIN code entry method.

Export Administration Regulations

The Japan Export Administration Regulations ("Foreign Exchange and International Trade Law" and its related laws) will be applied to this product and its accessories under certain conditions. The Export Administration Regulations are also applied. To export or reexport this terminal and its accessories, conduct all legally required procedures at your own risk and expense. For details on the procedures, contact the Ministry of Economy, Trade and Industry or the US Department of Commerce.

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Using mobile phone with your manners!

Please be considerate of those around you when using a mobile phone in public places.

Turn off your FOMA terminal in the following places

■ **When in an area where use is prohibited**
Be sure to turn off a mobile phone on an aircraft, in a hospital and near the priority seats on the train.

Set the Public mode in the following places

■ **While driving**
Using a mobile phone in hand while driving is regarded as a punishable act. Some cases such as when rescuing sick and injured people or maintaining public safety are exempted.

■ **When in public places such as theaters, movie theaters or museums**

Be considerate of the privacy of the individuals around you

Please be considerate of the privacy of individuals around you when taking and sending photos using camera-equipped mobile phones.

DOCOMO's contribution to environment

Simplified manual

We simplified the manual and reduced paper consumption by explaining the basic operation in Japanese version of this manual.
You can check Guide (in Japanese only, contained in the FOMA terminal) and DOCOMO website for frequently-used function and detailed explanation.

Collecting and recycling of mobile phones

モバイル・リサイクル・ネットワーク
携帯電話・PHSのリサイクルにご協力を。

We collect your unnecessary mobile phones and other devices irrespective of carrier. Bring them to a docomo Shop near you.
※Intended devices: Mobile phone, PHS, battery pack, charger and desktop holder (irrespective of carrier)

General Inquiries
\<docomo Information Center\>

(Business hours: 9:00 a.m. to 8:00 p.m.)

☎ **0120-005-250** (toll free)

※ Service available in: English, Portuguese, Chinese, Spanish, Korean.
※ Unavailable from part of IP phones.

(Business hours: 9:00 a.m. to 8:00 p.m. (open all year round))

■**From DOCOMO mobile phones**　■**From land-line phones**
　(In Japanese only)　　　　　　　**(In Japanese only)**

ℹ **(No prefix) 151** (toll free)　☎ **0120-800-000** (toll free)

※ Unavailable from land-line phones, etc.　※ Unavailable from part of IP phones.

● Please confirm the phone number before you dial.
● For Applications or Repairs and After-Sales Service, please contact the above-mentioned information center or the docomo Shop etc. near you on the NTT DOCOMO website or the i-mode site.

　NTT DOCOMO website　http://www.nttdocomo.co.jp/english/

Repairs

(Business hours: 24 hours (open all year round))

■**From DOCOMO mobile phones**　■**From land-line phones**
　(In Japanese only)　　　　　　　**(In Japanese only)**

ℹ **(No prefix) 113** (toll free)　☎**0120-800-000** (toll free)

※ Unavailable from land-line phones, etc.　※ Unavailable from part of IP phones.

i-mode site　iMenu ▶ お客様サポート (user support) ▶ ドコモショップ
(docomo Shop) ▶ ※In Japanese only

Loss or theft of FOMA terminal or payment of cumulative cost overseas
\<docomo Information Center\>

(available 24 hours a day)

From DOCOMO mobile phones

| International call access code for the country you stay | **-81-3-6832-6600*** (toll free) |

* You are charged a call fee to Japan when calling from a land-line phone, etc.
※ If you use SH-05D, you should dial the number +81-3-6832-6600
(to enter "+", press and hold the "0" key for at least one second).

From land-line phones
\<Universal number\>

| Universal number international prefix | **-8000120-0151*** |

* You might be charged a domestic call fee according to the call rate for the country you stay.
※ For international call access codes for major countries and universal number international prefix, refer to DOCOMO International Services website.

Failures encountered overseas
\<Network Support and Operation Center\>

(available 24 hours a day)

From DOCOMO mobile phones

| International call access code for the country you stay | **-81-3-6718-1414*** (toll free) |

* You are charged a call fee to Japan when calling from a land-line phone, etc.
※ If you use SH-05D, you should dial the number +81-3-6718-1414
(to enter "+", press and hold the "0" key for at least one second).

From land-line phones
\<Universal number\>

| Universal number international prefix | **-8005931-8600*** |

* You might be charged a domestic call fee according to the call rate for the country you stay.
※ For international call access codes for major countries and universal number international prefix, refer to DOCOMO International Services website.

● **If you lose your FOMA terminal or have it stolen, immediately take the steps necessary for suspending the use of the FOMA terminal.**
● **If the FOMA terminal you purchased is damaged, bring your FOMA terminal to a repair counter specified by DOCOMO after returning to Japan.**

Don't forget your mobile phone… or your manners!
When using your mobile phone in a public place, don't forget to show common courtesy and consideration for others around you.

Sales: NTT DOCOMO, INC.
Manufacturer: SHARP Corporation

To prevent damage to the environment, bring used battery packs to a docomo service counter, a docomo agent or a recycle center.

LI-Ion00

'12.1 (1st Edition)
12A MS117①

SH-05D
Manual for
PC Connection

Manual for PC Connection
This manual explains the necessary items to perform the data communication with SH-05D and the installation methods of "FOMA communication configuration file" and "DOCOMO Connection Manager".
The operation procedure and screens may be partly different depending on the use environment.

'12.1 (1st Edition)

Data communication

Data communication available for the FOMA terminal

The FOMA terminal communication formats fall into three categories: packet communication, 64K data communication and data transfer.

- The FOMA terminal does not support fax transmissions.
- The FOMA terminal supports data communication with sigmarionⅢ. The high-speed communication for FOMA HIGH-SPEED area is not supported.
- The FOMA terminal is not compatible with Remote Wakeup.
- Unable to use 64K data communication by connecting a PC, etc. overseas.
- To use packet communication overseas, communicate with IP connection (PPP connection is not available for packet communication).

■ Data transfer (OBEX™ communication)

Send or receive data such as images, music, phonebook entries, and messages between the FOMA terminal and another FOMA terminal or PC, etc.

- Data which can be sent and received vary depending on transfer method. Refer to "Manual (detailed edition)" (in Japanese only) for data which can be sent and received by each transfer method.

Ir/Bluetooth communication

SH-05D

SH-05D

FOMA USB Cable with Charge Function 02 (sold separately)
microSD Card
DOCOMO keitai datalink
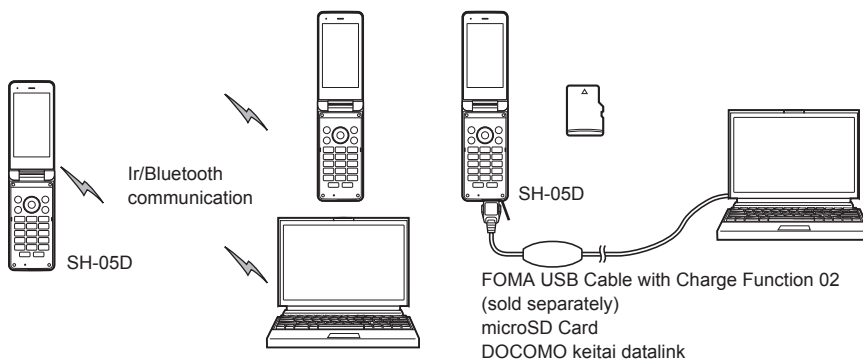
■ Packet communication

Charges incurred are based on the amount of data sent and received. When you are only connected to the network and are not sending or receiving data, no communication charges are incurred. Remain connected to the network, with no charge, and only send or receive data when necessary.

By using access points that are compatible with the FOMA packet communication, such as the DOCOMO Internet connection services "mopera U", high-speed data communication of up to 7.2 Mbps downlink and 5.7 Mbps uplink is available (A best-effort system is provided in which communication speeds vary depending on the communication environment and network traffic conditions).

- The maximum values (7.2 Mbps and 5.7 Mbps) are the values based on the technical standard, and not the actual communication speed. The actual communication speed varies depending on the network congestion or communication environment.
- The communication speeds may slow outside the FOMA HIGH-SPEED area or when connecting to the access point that does not support HIGH-SPEED or when using the device that does not support HIGH-SPEED such as DOCOMO's PDA "sigmarionⅢ".

For a packet communication, connect the FOMA terminal to a device such as a PC using FOMA USB Cable with Charge Function 02 (sold separately), Bluetooth function or Wi-Fi connection and perform appropriate settings. Best suited for sending and receiving mail text data or other relatively small amounts of data at high speeds. Note that sending or receiving large files will lead to higher communication charges.

Making voice calls while performing packet communication with a PC or other devices is possible.

■ 64K data communication

Charges incurred are based on the connection time. This communication uses access points that are compatible with FOMA 64K data communication, such as the DOCOMO Internet connection services "mopera U", or a synchronous ISDN 64K access point.

For 64K data communication, connect the FOMA terminal to a device such as a PC using FOMA USB Cable with Charge Function 02 or Bluetooth function and perform appropriate settings. Best suited for sending and receiving relatively large amounts of data, such as downloading Data box contents. Note that a long-time communication leads to higher communication charges.

1

Things to keep in mind

■ Internet service provider fees

When using the Internet, usage fees are charged by the Internet service provider. These usage fees, paid to the Internet service provider, are separate from the FOMA service fee. Contact your Internet service provider for details on usage fees.

Use the DOCOMO Internet connection services "mopera U". "mopera U" requires subscription (fees apply).

■ Host (Internet service provider, etc.) settings

Hosts for a packet communication and 64K data communication differ. For a packet communication, use a host that supports the FOMA packet communication, and for a 64K data communication, use a host that supports the FOMA 64K data communication or synchronous ISDN 64K communication.
● Connecting to DoPa access points is not possible.

■ Packet communication and 64K data communication conditions

The following conditions are necessary for a data communication (packet communication/64K data communication) using the FOMA terminal in Japan.
● The PC must support the FOMA USB Cable with Charge Function 02.
● When using Bluetooth function, PC must be compatible with Bluetooth specification ver.1.1, ver.1.2 or ver. 2.0+EDR (Dial-up Networking Profile).
● When using Wi-Fi connection, PC must be compatible with wireless LAN specification IEEE 802.11b, IEEE 802.11g or IEEE 802.11n.
● Must be within the FOMA service area.
● For a packet communication, the access point must be compatible with the FOMA packet communication.
● For a 64K data communication, the host must support the FOMA 64K data communication or synchronous ISDN 64K communication.
However, even if above conditions are met, communication may not be possible due to a busy base station or poor signal conditions.

● When performing a packet communication, the device connected to your FOMA terminal must be a JATE (Japan Approvals Institute for Telecommunications Equipment) authorized product.

■ Access authentication for using browser

The FirstPass (Client certificate) is required for access authentication when using FirstPass compatible sites with PC browser. Check the DOCOMO website for details.

Before using data communication

Operating environment

The following lists the operating environments for using data communications.

Item	System requirements
PC	PC/AT compatible When using FOMA USB Cable with Charge Function 02 (sold separately): A USB port (Universal Serial Bus Specification Rev1.1/2.0-compliant) When using Bluetooth function: Bluetooth specification ver.1.1, ver.1.2 or ver. 2.0+EDR-compliant (Dial-up Networking Profile) When using Wi-Fi connection: Wireless LAN specification IEEE 802.11b, IEEE 802.11g or IEEE 802.11n-compliant Display resolution 800 × 600 dots or more and High Color 16 bits or more are recommended ● 1024 × 600 dots or more for DOCOMO Connection Manager (1024 × 768 dots or more is recommended)
OS	Windows XP SP3, Windows Vista SP2, Windows 7 SP1 (all Japanese versions)
Required memory	Windows XP: At least 128 MB Windows Vista: At least 512 MB Windows 7 (32 bit version): At least 1 GB Windows 7 (64 bit version): At least 2 GB
Hard disk	At least 5 MB free space ● At least 10 MB free space for DOCOMO Connection Manager
Web browser*	Internet Explorer 6.0 or later
E-mail client*	Windows Mail or Outlook Express 6.0

* The operating environments are required for DOCOMO Connection Manager.

- Check the DOCOMO website for the latest information of operating environment.
- Required memory and hard disk may differ depending on the PC system configuration.
- Microsoft Internet Explorer 7.0 or later is recommended for activating menus.
  Microsoft Internet Explorer 6.0 or later is recommended for Windows XP.
- The operation in an environment with an upgraded, added or changed OS cannot be guaranteed.
- Depending on the operating environment, the use of the software may not be possible. DOCOMO holds no responsibility for responding to inquiries or guaranteeing operation in environments other than those specified above.

Required equipment

The following hardware and software are required besides the FOMA terminal and a PC.
- FOMA USB Cable with Charge Function 02 (sold separately)[1] or FOMA USB Cable (sold separately)[1]
- FOMA communication configuration file (Driver)[2]
*1 For USB connection
*2 Download from the DOCOMO website.

- Use a dedicated USB cable "FOMA USB Cable with Charge Function 02" or "FOMA USB Cable". USB cables for PC are not available since the connector shape is different.
- The use of a USB HUB may not work correctly.

Flow of setup for data transfer (OBEX™ communication)

FOMA USB Cable with Charge Function 02 (sold separately) is required to install the FOMA communication configuration file.

Install the "FOMA communication configuration file" (Driver)
● Download and install the "FOMA communication configuration file" (Driver) from the DOCOMO website (☞P. 7)

Data transfer

3

Flow of setup for data communication

This section describes the preparation to use a packet communication and 64K data communication. The flow is as shown below.

For USB connection

Install the "FOMA communication configuration file" (Driver)

● Download and install the "FOMA communication configuration file" (Driver) from the DOCOMO website (☞P. 7)

⬇

Connect up PC to the FOMA terminal using FOMA USB Cable with Charge Function 02 (sold separately) (☞P. 6)

⬇

Confirm installation (☞P. 8)

For Bluetooth connection

Connect the FOMA terminal wirelessly to your PC using Bluetooth function (☞P. 11)

⬇

Confirm the modem (☞P. 12)

⬇

Download and install "DOCOMO Connection Manager" from the DOCOMO website (☞P. 14 to P. 18)

Set up a communication manually without using "DOCOMO Connection Manager" (☞P. 20)

⬇

Connect (☞P. 19, P. 28)

● Use the broadband connection, etc. compatible "mopera U" (subscription necessary) for the convenient use of Internet with the FOMA terminal. There is a plan that only charges for months which the service was used.

For Wi-Fi connection

Set the FOMA terminal to access point mode

● Refer to "Manual (detailed edition)" (in Japanese only) of the FOMA terminal for details on access point mode

⬇

Connect the FOMA terminal wirelessly to your PC using Wi-Fi connection (☞P. 13)

⬇

Connect

● Set USB mode of the FOMA terminal to [Communication mode] for data communication using USB connection.

FOMA communication configuration file

To connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02 for a data communication, download and installation of the FOMA communication configuration file from the DOCOMO website is required (☞P. 7 to P. 10).

- If installation fails and [FOMA SH05D] is not listed in the screens of step 3 of "Confirming installed FOMA communication configuration file (Driver)" on P. 9, uninstall the FOMA communication configuration file (☞P. 9) and install it again.
- If, for some reason, the PC is unable to recognize the FOMA terminal, uninstall the FOMA communication configuration file (☞P. 9) and install it again.

Preparing Bluetooth connection

Make data communication by connecting the FOMA terminal wirelessly to a Bluetooth compatible PC.
- For details on Bluetooth connection ☞P. 11

Connecting up Wi-Fi compatible PC

Make data communication by connecting the FOMA terminal wirelessly to a Wi-Fi compatible PC.
- For details on connecting to Wi-Fi compatible PC ☞P. 13

Connecting up PC to the FOMA terminal

Connect the FOMA terminal to your PC with both devices turned on. If the FOMA terminal is connected to your PC, [ ] appears on the FOMA terminal screen. If the FOMA communication configuration file is not installed, install the file before connecting the FOMA terminal to the PC (☞P. 7).

● Refer to P. 11 for details on connecting the FOMA terminal wirelessly to your PC using Bluetooth function.
● Refer to P. 13 for details on connecting the FOMA terminal wirelessly to your PC using Wi-Fi connection.

Connecting using FOMA USB Cable with Charge Function 02

1 **Insert the FOMA terminal side connector of the FOMA USB Cable with Charge Function 02 (sold separately) into the external connector terminal on the FOMA terminal (**1**).**

Keep side with the characters up

FOMA USB Cable with Charge Function 02 (sold separately)

Open external connector terminal cover

2 **Insert the PC side connector of the FOMA USB Cable with Charge Function 02 into the USB connector on the PC (**2**).**
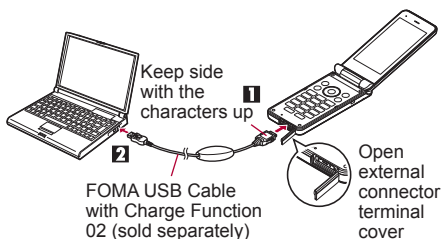
How to remove

1 Hold the release buttons on the FOMA terminal side of the FOMA USB Cable with Charge Function 02 (1), and pull out from the FOMA terminal (2).

• Pulling by force may cause a malfunction.

2 Pull the FOMA USB Cable with Charge Function 02 out from the PC.

Release buttons
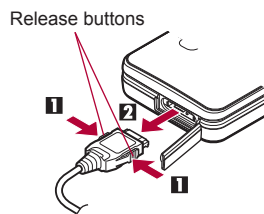
● Set USB mode setting of the FOMA terminal to [Communication mode] and connect.
  • To set to communication mode: In the Normal menu on the FOMA terminal, select [Setting] ▶ [External connection] ▶ [USB mode] ▶ [Communication mode].
● Connecting the FOMA terminal while charging with the wireless charger is also possible.
● Do not remove the FOMA USB Cable with Charge Function 02 during data communication. Otherwise, communication disconnection or data loss may occur.

Installing FOMA communication configuration file

To make data communication by connecting the FOMA terminal to a PC via FOMA USB Cable with Charge Function 02 (sold separately), the FOMA communication configuration file is required.

- End all resident software before the FOMA communication configuration file (Driver) is installed.
- When connecting with other than FOMA USB Cable with Charge Function 02, installing the FOMA communication configuration file is not required.

Installing FOMA communication configuration file (Driver)

- Install on the PC using a user with administrator rights.
  - When User Account Control screen appears, click [はい] (Yes) or [許可] (Permitted) and [続行] (Continue).
- Perform steps 1 to 6 first, and then connect the FOMA terminal to the PC.

1 Download FOMA communication configuration file (Driver) from the DOCOMO website.

- Download from the following website.
  http://www.nttdocomo.co.jp/support/utilization/application/foma/com_set/driver/style/sh05d/index.html (in Japanese only)
- The following warning message may appear. This warning is shown by the security setting of Internet Explorer but does not cause any problem for use.
  - ■ **When the [ファイルのダウンロード - セキュリティの警告] (File download - Security warning) screen appears**
    Click [実行] (Run).

2 Double-click [SH05Ds.exe] in the downloaded driver [sh-05d_driver_win7_32].

For Windows 7 (64 bit version)
1 Double-click [SH05Ds.exe] in the [sh-05d_driver_win7_64].
For Windows Vista (32 bit version)
1 Double-click [SH05Ds.exe] in the [sh-05d_driver_vista_32].
For Windows Vista (64 bit version)
1 Double-click [SH05Ds.exe] in the [sh-05d_driver_vista_64].
For Windows XP
1 Double-click [SH05Ds.exe] in the [sh-05d_driver_win_xp].

3 Click [インストール開始] (Start install).
For Windows Vista and Windows XP
- Click [インストール開始] (Start install) and proceed to step 6.

4 Click [セットアップ開始] (Start setting up).

5 Click [OK] when [デバイスメタデータをコピーしました] (Device metadata is copied) appears.

6 Connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02 when [FOMA SH05DとPCをFOMA USB接続ケーブルにて接続してください。] (Connect the FOMA SH05D to your PC via FOMA USB Cable.) appears.
- The installation in progress screen appears and installation automatically begins.
- Connect the FOMA terminal while the power is on.

7 **Click [OK] when [FOMA SH05Dドライバのインストールが完了しました。]**
(Installation of FOMA SH05D driver is completed.) appears.

- Installation of the FOMA communication configuration file finishes.

- Installation may take a few minutes.
- When [プログラム互換性アシスタント] (Program Compatibility Assistant) appears, click [このプログラムは正しくインストールされました] (This program installed correctly).
- When a message prompting to restart the PC appears, follow the instruction and restart.
- When [他のデバイスドライバのインストールが終了後に再度インストーラを実行してください。] (Run the installer again after other device drivers are installed) appears, uninstall other drivers automatically installed and install the driver. Refer to "Uninstalling FOMA communication configuration file (Driver)" for steps on uninstalling.

Confirming installed FOMA communication configuration file (Driver)

If the FOMA terminal is not properly recognized by the PC, setup and communications are not possible.

Example: Confirming Windows 7 drivers

- The screens are different for Windows Vista and Windows XP.

1 **Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel) and click**
[システムとセキュリティ] (System and security).

- System properties screen appears.

For Windows Vista

1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).

2 Click [システムとメンテナンス] (System and maintenance) ▶ the [システム] (System) icon.

For Windows XP

1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).

2 Click the [パフォーマンスとメンテナンス] (Performance and maintenance) icon ▶ the [システム] (System) icon.

2 **Click [デバイスマネージャー] (Device manager).**

- The device manager screen appears.

For Windows Vista

1 Click [デバイスマネージャ] (Device manager) in [タスク] (Task).

For Windows XP

1 Click the [ハードウェア] (Hardware) tab.

2 Click [デバイスマネージャ] (Device manager).

3 Click on each device, and confirm the name of the installed device.

Confirm that the names of all the installed devices are displayed for [ユニバーサル シリアル バス コントローラー] (Universal Serial Bus controllers), [ポート (COMとLPT)] (Ports (COM and LPT)) and [モデム] (Modems).

● The following drivers are installed when the FOMA communication configuration file is installed.

Device type	Device name
Universal Serial Bus controllers **For Windows XP** USB (Universal Serial Bus) controllers	● FOMA SH05D
Ports (COM and LPT)	● FOMA SH05D Command Port (COMx)* ● FOMA SH05D OBEX Port (COMx)*
Modem	● FOMA SH05D

* The "x" from "COMx" is a number and differs depending on the PC.
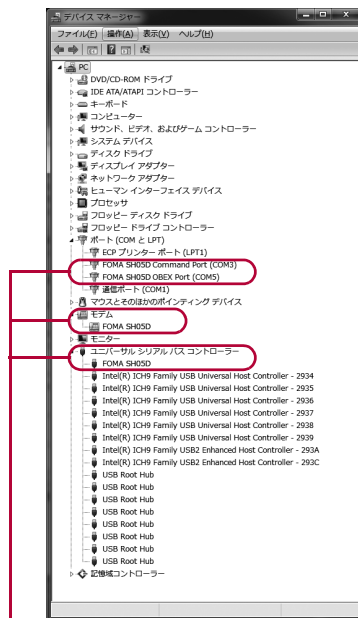
If recognized, they will appear in this manner.

● If installation fails or [FOMA SH05D] does not appear in the screen of step 3, uninstall the file and then install it again. Refer to "Uninstalling FOMA communication configuration file (Driver)" for steps on uninstalling.

Uninstalling FOMA communication configuration file (Driver)

This section describes how to uninstall the FOMA communication configuration file.

● When uninstalling the FOMA communication configuration file, the PC user must have administrator rights. An error will occur when other users attempt to uninstall this software.
Contact the computer manufacturer or Microsoft Corporation for information about configuring the administrator rights setting.

• When User Account Control screen appears, click [はい] (Yes) or [許可] (Permitted) and [続行] (Continue).

■ Uninstalling from control panel

Example: Uninstalling from Windows 7

● The screens are different for Windows Vista and Windows XP.

1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel) and click [プログラムのアンインストール] (Uninstall programs).

• The [プログラムのアンインストールまたは変更] (Uninstall or change programs) screen appears.
For Windows Vista

1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).
2 Click [プログラム] (Programs) ▶ the [プログラムと機能] (Programs and features) icon.
For Windows XP

1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).
2 Click the [プログラムの追加と削除] (Add/Remove programs) icon.
• The [プログラムの追加と削除] (Add/Remove programs) screen appears.

2 **Double-click [FOMA SH05D USB Driver].**

For Windows XP

   1 Select [FOMA SH05D USB Driver].

   2 Click [変更と削除] (Change/Remove).

3 **When [FOMA SH05D ドライバーのアンインストールを行います。] (Uninstall FOMA SH05D driver.) appears, click [はい] (Yes).**

   • Uninstallation of the FOMA communication configuration file begins.

   For Windows Vista and Windows XP

   • Click [はい] (Yes) and proceed to step 6.

4 **When [SH05Dのデバイス メタデータをWindowsから削除します。] (Delete device metadata of SH05D from Windows.) appears, click [削除開始] (Start deleting).**

5 **When [デバイスメタデータを削除しました] (Device metadata is deleted) appears, click [OK].**

6 **When [アンインストールは完了しました。PCを再起動してください。] (Uninstallation of the driver is completed. Restart the PC.) appears, click [OK] and restart the PC.**

   • Uninstallation of the FOMA communication configuration file finishes.

● If [FOMA SH05D USB Driver] is not displayed on the [プログラムのアンインストールまたは変更] (Uninstall or change programs) screen, double-click [SH05Dc.exe] in the ¥SH05D_Win7_32 folder* of the downloaded driver [sh-05d_driver_win7_32] to uninstall.

   * For Windows 7 (64 bit version): In the ¥SH05D_Win7_64 folder of the [sh-05d_driver_win7_64]
      For Windows Vista (32 bit version): In the ¥SH05D_WinVista32 folder of the [sh-05d_driver_vista_32]
      For Windows Vista (64 bit version): In the ¥SH05D_WinVista64 folder of the [sh-05d_driver_vista_64]
      For Windows XP: In the ¥SH05D_Win_XP folder of the [sh-05d_driver_win_xp]

● When [プログラム互換性アシスタント] (Program Compatibility Assistant) appears, click [このプログラムは正しくインストールされました] (This program installed correctly).

Preparing Bluetooth connection

Make data communication by connecting the FOMA terminal wirelessly to a Bluetooth compatible PC.

● When making data communication using Bluetooth function, the communication speeds of FOMA terminal is for HIGH-SPEED, however, the data communication may not be available at maximum speed because the communication speeds of Bluetooth function have limitations.
● Use a Bluetooth-linked standard modem or a Bluetooth modem provided by the Bluetooth manufacturer. Contact the maker of your PC or Bluetooth maker for information on installation and setting methods.
● Refer to the PC manual of your PC for the details on operating it.

Connecting the FOMA terminal wirelessly to your PC using Bluetooth function

To connect a PC to the FOMA terminal for the first time, register the PC on the FOMA terminal.
● Operate the PC and the FOMA terminal.

■ Registering a PC on the FOMA terminal

1 **In the Normal menu on the FOMA terminal, select [Tool] ▶ [Bluetooth] ▶ [Accept registered].**

2 **Search and register the Bluetooth device from the PC.**
  • For the FOMA terminal, keep the stand-by screen displayed.

3 **Select [Yes] and enter the Bluetooth passkey on the FOMA terminal after the message stating that the device is registered appears on the FOMA terminal display.**
  • Enter up to 4 to 16 digits for a Bluetooth passkey.
  • Enter the same Bluetooth passkey for both the FOMA terminal and PC.
  • The PC is registered.

● Register the device approximately within 5 minutes after placing the FOMA terminal on stand-by for connection.

■ Connecting the FOMA terminal to the registered PC

1 **In the Normal menu on the FOMA terminal, select [Tool] ▶ [Bluetooth].**

2 **Point the cursor to [Accept registered] and press ▣. Then, set [Dial-up(DUN)] to ☑ and press ▣.**

3 **Make a connection from the PC.**
  • Automatically connect and [🔵 (blue)] flashes at approximately 0.5-second intervals. The icon changes to [🔵 (gray)] when data is not transmitted from the FOMA terminal for a set length of time.

Confirming modem

Before setting communication, confirm the name and COM port number of the modem set for connecting the dial-up service.
● Operate the PC.

Example: Confirming Windows 7 drivers
● The screens are different for Windows Vista and Windows XP.

1 **Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel) and click [システムとセキュリティ] (System and security).**
• The system property screen appears.
For Windows Vista
1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).
2 Click [システムとメンテナンス] (System and maintenance) ▶ the [システム] (System) icon.
For Windows XP
1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).
2 Click the [パフォーマンスとメンテナンス] (Performance and maintenance) icon ▶ the [システム] (System) icon.

2 **Click [デバイスマネージャー] (Device manager).**
• The device manager screen appears.
For Windows Vista
1 Click [デバイスマネージャ] (Device manager) in [タスク] (Task).
For Windows XP
1 Click the [ハードウェア] (Hardware) tab.
2 Click [デバイスマネージャ] (Device manager).

3 **Click each device, and then confirm the modem name or COM port number.**

Stopping dial-up communication service

● Operate the FOMA terminal.

1 **Press ⌨ during communication and select [Tool] ▶ [Bluetooth] ▶ [List/cnnct/discnct].**

2 **Select the Bluetooth device that is connected and select [Yes].**

Connecting up Wi-Fi compatible PC

Connect the Wi-Fi compatible PC and the FOMA terminal using Wi-Fi connection and use packet communication by setting the FOMA terminal as an access point.

● Set the FOMA terminal to an access point mode in advance. Refer to "Manual (detailed edition)" (in Japanese only) of the FOMA terminal for details on the setting of the access point mode, etc.

Example: Connecting with Windows 7

1 **Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).**
For Windows Vista

   1 Click [スタート] (Start) menu ▶ [接続先] (Connect to) and proceed to step 4.

2 **Click [ネットワークとインターネット] (Network and Internet).**

3 **Click [ネットワークと共有センター] (Network and sharing center).**
• The connect to a network screen appears.

4 **Click [新しい接続またはネットワークのセットアップ] (Set up new connection or network).**
• The connect to a network screen appears.
For Windows Vista

   1 Click [接続またはネットワークをセットアップします] (Set up a connection or network).

5 **Select [ワイヤレスネットワークに手動で接続します] (Connect to the wireless network manually) and click [次へ] (Next).**

6 **Enter ESSID in [ネットワーク名] (Network name), select the security method from [セキュリティの種類] (Security type) and click [次へ] (Next).**
• Enter/Set the same ESSID and security type as on the FOMA terminal.
• [WPA2-パーソナル] (WPA2-personal) of [セキュリティの種類] (Security type) is the same as WPA2-PSK.
• When the encryption is set in the FOMA terminal, set the same [暗号化の種類] (Encryption type) and [セキュリティキー] (Security key) as in the FOMA terminal.

7 **Click [閉じる] (Close).**

● When the security type set in the access point mode of FOMA terminal is WEP, set the 802.1x authentication of PC side to be disabled.

Set network transmission with DOCOMO Connection Manager

DOCOMO Connection Manager

DOCOMO Connection Manager is a software which is convenient for using data communication of DOCOMO. Easily set the PC depending on the subscription. In addition, use the charge counter function to check the approximate communication charges or usage fee.

● This manual describes the installation method of DOCOMO Connection Manager.
● Subscription to the Internet service provider (mopera U, etc.), compatible with the flat-rate data plan or FOMA service and data communication is required to connect to the Internet using the terminal.
● Refer to the DOCOMO website for details.
  http://www.nttdocomo.co.jp/support/utilization/application/service/connection_manager/ (in Japanese only)

Connect/Disconnect button
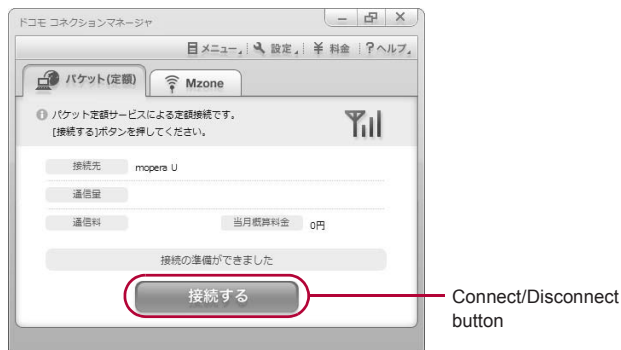
Using measured-rate data communication

● Note that transmitting large amounts of data using packet communication, such as viewing a website with images and downloading data (Example: application, music or movie data, updating OS or antivirus software) will lead to higher communication charges.
  Note that flat-rate packet communication service, "Pake-hodai", "Pake-hodai full", do not apply to charges of data communication with the FOMA terminal connected to PC, etc. using a USB cable.

Before installing DOCOMO Connection Manager

■ Preparation for Installation

STEP 1 Setup preparation
Prepare the FOMA terminal and the FOMA USB Cable with Charge Function 02 (sold separately).

STEP 2 Confirming the content of subscription
Confirm the content of subscription to the billing plans, discount service and Internet service provider.

STEP 3 Changing the settings
If the connection software other than DOCOMO Connection Manager is installed, change the setting as necessary not to activate automatically.
Refer to "Using the connection software other than DOCOMO Connection Manager" on P. 15.

STEP 4 Acquiring DOCOMO Connection Manager
Download and install DOCOMO Connection Manager from the DOCOMO website.

Setting Internet Explorer

Before installing this software, set the connection setting to [ダイヤルしない] (No) on the internet option of Internet Explorer.

1 Activate Internet Explorer and click [ツール] (Tool)▶[インターネットオプション] (Internet option).

2 Click the [接続] (Connection) tab and then select [ダイヤルしない] (No).

3 Click [OK].
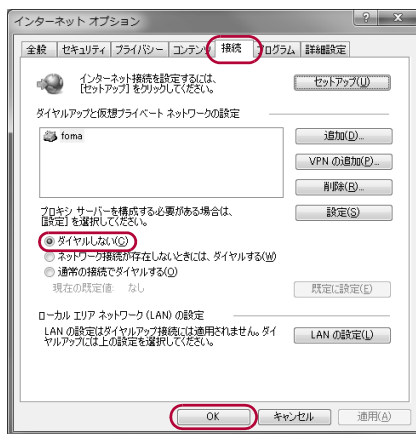
1 Logon with a user which uses DOCOMO Connection Manager.
- When installing DOCOMO Connection Manager, the PC user must have administrator rights. An error may occur when other users attempt to uninstall this software.

For Windows 7 and Windows Vista
- Administrator account is required. If PC is logged on with other than manager account, a screen to enter the user name and password of the administrator appears during install.

For Windows XP
- Logon with a user which belongs to the Administrators Group or a user of "Computer administrator".

2 End all activating applications.
- When installing DOCOMO Connection Manager, resident programs on Windows including anti-virus software are also ended.

Example: Right-click the icon displayed in the task bar and select [閉じる] (Close) or [終了] (Exit).

Using the connection software other than DOCOMO Connection Manager
- This software has built-in functions equal to the following software. The following software is not required to be used simultaneously.
  Change the setting not to activate or uninstall them as necessary.
  - ■ The software not required to be used simultaneously
    - mopera U start up tool
    - mopera U connection & setting tool
    - FOMA PC configuration software
    - FOMA byte counter

In addition, when using Mzone (Public wireless LAN connection) with this software, uninstall the following public wireless LAN connection software.
※ If the following software is installed simultaneously, Mzone connection with this software is not available.
■ U public wireless LAN utility software
■ DOCOMO public wireless LAN utility software
■ DOCOMO public wireless LAN utility program

Installing DOCOMO Connection Manager

Example: Installing to Windows 7
● The screens are different for Windows Vista and Windows XP.

1 **Access the page for DOCOMO Connection Manager from the DOCOMO website.**

   • Access the following website.
   http://www.nttdocomo.co.jp/support/utilization/application/service/connection_manager/

2 **Click [ドコモ コネクションマネージャ(Windows®用)へ] (DOCOMO Connection Manager (for Window®)).**

3 **Click [[ドコモ コネクションマネージャ(Windows®用)]ダウンロードへ] (Downloading DOCOMO Connection Manager (for Window®)).**

4 **Confirm the user licensing agreement and click [同意する] (Agree) to agree for downloading.**

   • The following warning message may appear. This warning is shown by the security setting of Internet Explorer but does not cause any problem for use.
   ■ **When the [ファイルのダウンロード - セキュリティの警告] (File download - Security warning) screen appears**
   Click [実行] (Run).

5 **Click [はい] (Yes).**

For Windows Vista
1 Click [続行] (Continue).
For Windows XP
   • User Account Control screen does not appear. The setup program is activated soon.

16
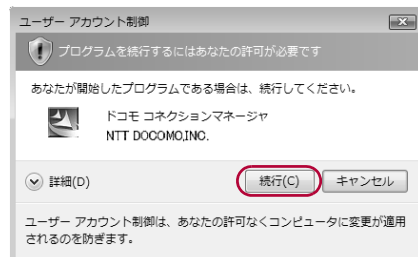
6 **Click [次へ] (Next).**

7 **Confirm the content and click [次へ] (Next).**
- The precaution appears. Make sure to confirm its content. Click [キャンセル] (Cancel) to cancel the installation.
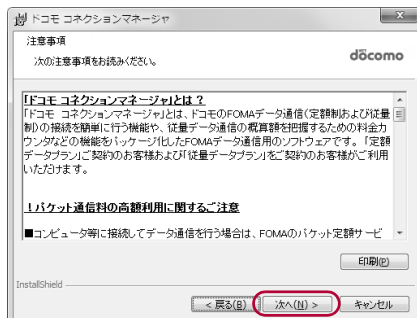
8 **Read the licensing agreement and select [使用許諾契約の条項に同意します] (Agree to articles of the user licensing agreement) and then click [次へ] (Next) to agree.**
- This is the user licensing agreement for DOCOMO Connection Manager. Click [キャンセル] (Cancel) to cancel the installation.
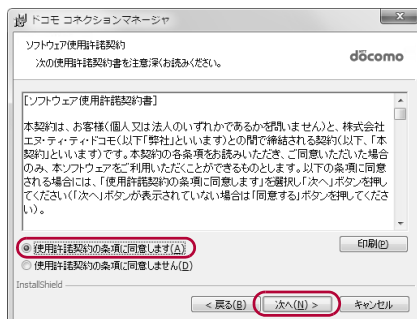
9 **Confirm the destination program folder and click [次へ] (Next).**
- To change the destination program folder, click [変更] (Change), select a destination for installation and click [次へ] (Next).

10 Click [インストール] (Install).
- Installation begins.
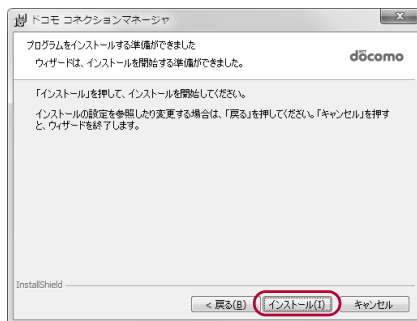
11 Click [完了] (Finish).
- Installation is completed.

Activating DOCOMO Connection Manager

1 **Select [スタート] (Start) menu ▶ [す
ベてのプログラム] (All programs) ▶
[NTT DOCOMO] ▶ [ドコモ コネク
ションマネージャ] (DOCOMO
Connection Manager) ▶ [ドコモ コ
ネクションマネージャ] (DOCOMO
Connection Manager).**

- When the software is activated for the first
  time, the setting wizard appear. Operate and
  make the setting according to the guidance
  from the software to prepare for the
  connection to the Internet. Refer to DOCOMO
  Connection Manager's help for details.

● Communication is not disconnected by only ending the internet browser or mail software.
Be sure to disconnect the communication with [切断する] (Disconnect) button of DOCOMO Connection Manager
when communication is not in use.
If the automatic update is set for updating OS, etc., the software is automatically updated and it may lead to higher
Packet communication charges.

Connect/Disconnect button

Set network transmission without using DOCOMO Connection Manager

Setting communications for packet communication and 64K data communication

This section describes how to set up packet communication and 64K data communication without using DOCOMO Connection Manager.

To make the settings, communication software for entering AT commands are required. "Hyper terminal" is used here.

- The flow for setting up with use of AT commands is as follows.
- To use 64K data communication, there is no host (APN) setting.
- For Windows 7 or Windows Vista, "Hyper terminal" is not included as standard. Use compatible software to set up communications (follow the instructions for the software).

Start up communication software that supports AT commands (steps 2 to 5)

Set the host (APN) (☞steps 6 and 7 on P. 21)	Set the Send/Not send caller ID (☞P. 22)	Set the Dial-up Network (☞P. 23)

End communication software (☞step 7 on P. 22)
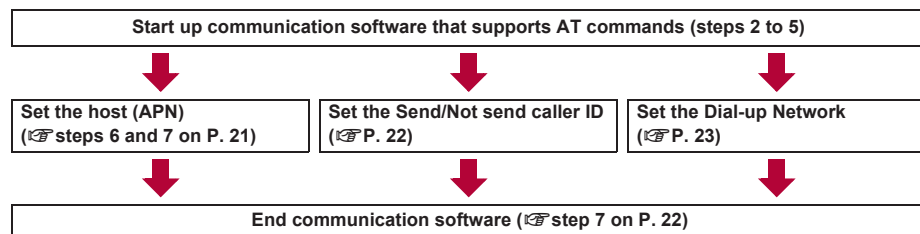
- Install the FOMA communication configuration file before making settings for packet communication and 64K data communication (☞P. 7).
- AT commands are commands for controlling the modem. The FOMA terminal is compliant with AT commands and also supports some extended commands, as well as some unique AT commands.
- Making host (APN) settings is not necessary when using mopera U or mopera, the DOCOMO Internet connection service, since it is set as the default.
- Set Notify caller ID as necessary (When using mopera U or mopera, set [Send]). The default setting is [Not send].
- Set other settings as necessary. Use is possible with the default settings.

Setting host (APN)

Set the host (APN) for using packet communication. Register up to ten numbers. Hosts are managed using cid numbers from 1 to 10 (☞P. 21). The default setting for cid1 is "mopera.ne.jp", the APN used to connect to mopera (<PDP_type> is "PPP"). The default setting for cid2 is "mopera.net", the APN used to connect to mopera U (<PDP_type> is "PPP"). The default setting for cid3 is "mopera.net", the APN used to connect to mopera U (<PDP_type> is "IP"). The default setting for cid4 is "mpr.ex-pkt.net", the APN used to connect to mopera U (<PDP_type> is "PPP"). Save hosts (APN) to cid5 to 10.

- The registered cid is the connection number set in the dial-up connection settings.
- A separate host (APN) is required to be set for USB connection and Bluetooth connection.
- If USB connection and Bluetooth connection are switched during packet communication, the host (APN) is required to be set again.
- Contact the Internet service provider or network administrator for hosts (APNs) other than mopera U or mopera.

Example: Using FOMA USB Cable with Charge Function 02 (sold separately) on Windows XP

1 Connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02.

2 Select [スタート] (Start) menu ▶ [すべてのプログラム] (All programs) ▶ [アクセサリ] (Accessories) ▶ [通信] (Communications) ▶ [ハイパーターミナル] (Hyper terminal).

- Hyper terminal starts up.

3 **Enter a name (such as a host name) in the [名前] (Name) field and click [OK].**
- The advanced settings screen for phone number appears.

4 **Select [FOMA SH05D] from [接続方法] (Connection method), enter a temporary number in the [電話番号] (Phone number) field that does not actually exist (such as [0]), and click [OK].**
- For the area code, the default setting in Windows (such as [03]), appears. Set any number for the area code, since it is not related to the host (APN) setting.

5 **When the connection screen appears, click [キャンセル] (Cancel).**

6 **Enter host (APN) and press ↵.**
- Enter host (APN) in the format:
  AT+CGDCONT=<cid>, "<PDP_type>","APN"
  (☞P. 35).
  <cid> : Enter any of 5 to 10.
  "<PDP_type>" : Enter "PPP" or "IP".
  "APN" : Enter the host (APN) enclosed in " ".
- If [OK] appears, the APN is set successfully.
- To check the current host (APN) setting, enter AT+CGDCONT?↵, and the settings appear in a list.
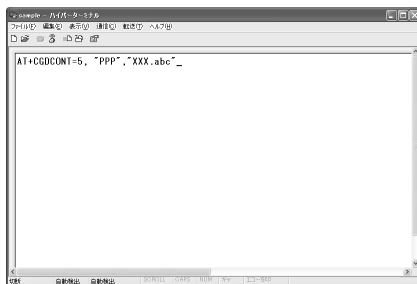
When nothing appears on the screen when AT commands are entered
- ATE1↵
  Refer to P. 39 for details on AT commands.

When resetting APN settings using AT commands
- AT+CGDCONT=↵ : To reset all the cids
- AT+CGDCONT=<cid>↵ : To reset only specific cids

When reset, <cid>=1 returns to "mopera.ne.jp" (default setting), <cid>=2 or 3 returns to "mopera.net" (default setting), <cid>=4 returns to "mpr.ex-pkt.net" (default setting) and settings for <cid>=5 to 10 are unregistered.

When confirming APN settings using AT commands

- AT+CGDCONT?⏎
  Refer to P. 35 for details on AT commands.

7 **Confirm that [OK] appears and select [ハイパーターミナルの終了] (Exit hyper terminal) from the [ファイル] (File) menu.**

- Hyper terminal ends.
- [セッション×××を保存しますか？] (Save session xxx?) appears. However, there is no need to save.
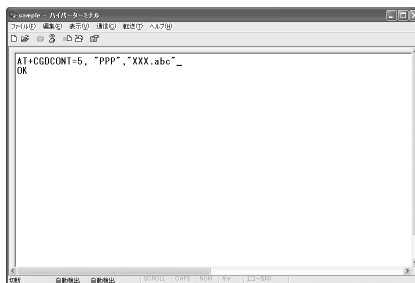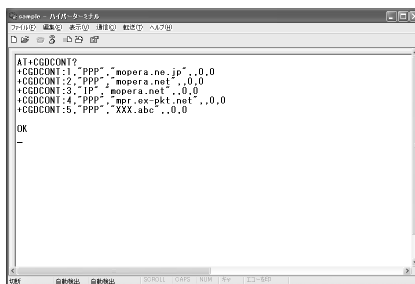
Setting Send/Not send caller ID

Handset number (Caller ID) is important personal information. Use caution when setting.

1 **Follow steps 1 to 5 of "Setting host (APN)" on P. 20.**

2 **Set either Send caller ID (186) or Not send caller ID (184) during packet communication.**

- Enter in the format: "AT∗DGPIR=<n>" (☞P. 34).
  AT∗DGPIR=1⏎ : Add "184" when packet communication is established with the host (APN).
  AT∗DGPIR=2⏎ : Add "186" when packet communication is established with the host (APN).

3 **Confirm that [OK] appears.**

22
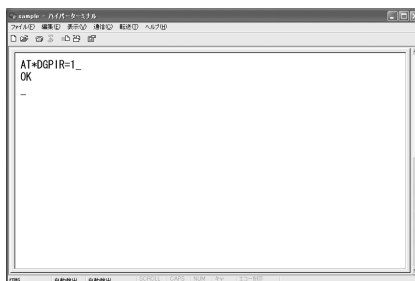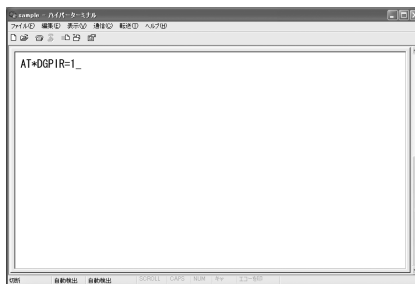
■ **Send/Not send setting on dial-up networks**

Adding "186" (Send) and "184" (Not send) to the host number in dial-up networks is also possible.
Setting "186" (Send) and "184" (Not send) in both the ∗DGPIR command setting and the dial-up network setting results in the following.

Dial-up network setting (when <cid>=1)	Using the ∗DGPIR command Send/Not send setting	Send/Not send caller ID
∗99∗∗∗1#	Not set (default setting)	Send
	Not send	Not send
	Send	Send
184∗99∗∗∗1#	Not set (default setting)	Not send (dial-up network "184" is given priority)
	Not send	
	Send	
186∗99∗∗∗1#	Not set (default setting)	Send (dial-up network "186" is given priority)
	Not send	
	Send	

● Enter "AT∗DGPIR=0" to return "186" (Send)/"184" (Not send) to [Not set] (default setting).
● Set [Send] for sending caller ID when using mopera U or mopera, the DOCOMO Internet connection service.

Setting dial-up network

Set the host and TCP/IP protocol. Contact the Internet service provider or network administrator for details on settings.

■ Hosts

For packet communication, set the host (APN) in advance. Register numbers (cid) 1 to 10 for the host (APN) in advance, to enable using packet communication by specifying control numbers. Host (APN) settings are the equivalent to a phonebook for packet communication on a PC. Compared to normal phonebook entries, they appear as follows.

In phonebook	In Packet communication setting
Registered number (memory number)	Control numbers (cids) 1 to 10
Other party's name	Host name (host (APN))
Other party's phone number	∗99∗∗∗<cid>#

For example, when the mopera host (APN), "mopera.ne.jp", is registered for cid1, connecting to the mopera is possible by specifying the host number "∗99∗∗∗1#". Other registered cids can be used similarly.
∗99∗∗∗1#　　: Connects to host (APN) registered to cid1. Alternatively, connect with just ∗99#.
∗99∗∗∗2#　　: Connects to host (APN) registered to cid2.
　　to
∗99∗∗∗10#　: Connects to host (APN) registered to cid10.
The default setting for cid1 is "mopera.ne.jp", the APN used to connect to mopera (<PDP_type> is "PPP"). The default setting for cid2 is "mopera.net", the APN used to connect to mopera U (<PDP_type> is "PPP"). The default setting for cid3 is "mopera.net", the APN used to connect to mopera U (<PDP_type> is "IP"). The default setting for cid4 is "mpr.ex-pkt.net", the APN used to connect to mopera U (<PDP_type> is "PPP"). When connecting to a corporate LAN or Internet service providers other than mopera or mopera U, register the host (APN) using cid5 to 10 (☞P. 21).
For 64K data communication, enter the access point phone number supplied by the Internet service provider or network administrator.

● Contact the Internet service provider or network administrator for more information on settings.
● Access point phone number is "∗8701" for mopera U and "∗9601" for mopera when using 64K data communication.
● When using packet communication, enter "∗99∗∗∗3#" for mopera U and "∗99∗∗∗1#" for mopera (default setting).

■ **Setting a dial-up network on Windows 7 and Windows Vista**

On Windows 7, use "ネットワークの接続ウィザード" (Network connection wizard) to set the host (APN).

Example: Using <cid>=3 to connect to mopera U, the DOCOMO Internet connection service on Windows 7

● The screens are different for Windows Vista
● Subscription to mopera U requires a charge.

1 **Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).**
For Windows Vista

1 Click [スタート] (Start) menu ▶ [接続先] (Connect to) and proceed to step 4.

2 **Click [ネットワークとインターネット] (Network and Internet).**

3 **Click [ネットワークと共有センター] (Network and sharing center).**
• The connect to a network screen appears.

4 **Click [新しい接続またはネットワークのセットアップ] (Set up new connection or network).**
• The connect to a network screen appears.
For Windows Vista

1 Click [接続またはネットワークをセットアップします] (Set up a connection or network).

5 **Click [ダイヤルアップ接続をセットアップします] (Set up a dial-up connection) ▶ [次へ] (Next).**
• For Bluetooth connection, select the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)].
• When two or more modems are connected to the PC, [どのモデムを使いますか？] (Which modem do you want to use?) appears. Select [FOMA SH05D].
• The create a dial-up connection screen appears.

6 **Enter the host number in the [ダイヤルアップの電話番号] (Dial-up phone number) field and a connection name in the [接続名] (Connection name) field, and then click [接続] (Connect).**
• To connect to <cid>=3 (mopera U), enter "＊99＊＊＊3#" in the [ダイヤルアップの電話番号] (Dial-up phone number) field.
• When using mopera U or mopera, [ユーザー名] (User name) and [パスワード] (Password) can be left blank to connect.
• When connecting to the Internet using a provider other than mopera U or mopera, enter the user name and password for the provider in the [ユーザー名] (User name) and [パスワード] (Password) fields.
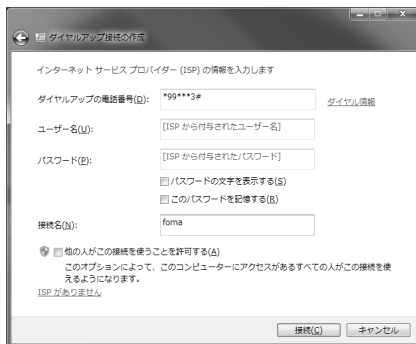
7 **When [(接続名) に接続中] (Connecting to (Connection name)) appears, click [スキップ] (Skip).**
• Only confirming the settings without actually connecting.
• If [スキップ] (Skip) is not clicked, the network is connected to the Internet.

8 **Click [閉じる] (Close).**
For Windows Vista

1 Click [接続をセットアップします] (Set up a connection) and click [閉じる] (Close).

9 **Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).**
For Windows Vista

  1 Click [スタート] (Start) menu ▶ [ネットワーク] (Networking).
  2 Click [ネットワークと共有センター] (Network and sharing center) ▶ [ネットワーク接続の管理] (Manage network connections) and proceed to step 12.

10 **Click [ネットワークとインターネット] (Network and Internet).**

11 **Click [ネットワークと共有センター] (Network and sharing center) ▶ [アダプターの設定の変更] (Change adapter setting) in [タスク] (Task).**
  - The network connections screen appears.

12 **Select and right-click the icon for host created and select [プロパティ] (Properties).**
  - Properties screen appears.

13 **Confirm all the settings in the [全般] (General) tab.**
  - When two or more modems are connected to the PC
    - For FOMA USB Cable with Charge Function 02: Make sure that [FOMA SH05D] in [接続の方法] (Connection method) shows ☑. When ☐ appears instead, change to ☑. For modems other than [FOMA SH05D], change ☑ to ☐.
    - For Bluetooth connection: Make sure that the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)] in [接続の方法] (Connection method) shows ☑. When ☐ appears instead, change to ☑. For modems other than the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)], change ☑ to ☐.
  - Confirm that [ダイヤル情報を使う] (Use dialing rules) shows ☐. When ☑ appears instead, change to ☐.

14 **Click the [ネットワーク] (Networking) tab and confirm all settings.**
  - In the [この接続は次の項目を使用します] (Components checked are used by this connection) field, ☑ should appear only for [インターネットプロトコルバージョン 4 (TCP/IPv4)] (Internet protocol version 4 (TCP/IPv4)). Set [QoSパケットスケジューラ] (QoS packet scheduler) according to the instructions of the provider.
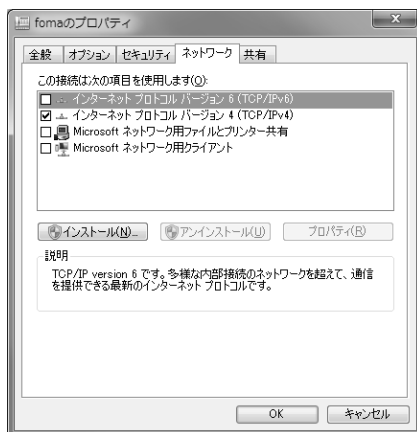
15 **Click the [オプション] (Option) tab and click [PPP設定] (PPP setting).**
  - The PPP setting screen appears.

25

16 **Check all options to show ☐ and click [OK].**

- The option setting screen reappears.

17 **Click [OK].**

- The host and TCP/IP protocol are set.
- Refer to P. 28 for details on connecting to dial-up network.

■ Setting a dial-up network on Windows XP

On Windows XP, use "ネットワークの接続ウィザード" (Network connection wizard) to set both the host (APN) and TCP/IP protocol.

Example: Using <cid>=3 to connect to mopera U, the DOCOMO Internet connection service
● Subscription to mopera U requires a charge.

1 **Click [スタート] (Start) menu ▶ [すべてのプログラム] (All programs) ▶ [アクセサリ] (Accessories) ▶ [通信] (Communications) ▶ [ネットワーク接続] (Network connections).**

- The network connections screen appears.

2 **Click [新しい接続を作成する] (Create new connection) in [ネットワークタスク] (Network tasks).**

- A new connection wizard screen appears.

3 **Click [次へ] (Next).**
- The screen to select network connection type appears.

4 **Select [インターネットに接続する] (Dial-up to the Internet) and click [次へ] (Next).**
- A preparation screen appears.

5 **Select [接続を手動でセットアップする] (Manually set up Internet connection) and click [次へ] (Next).**

- The Internet connection screen appears.

6 **Select [ダイヤルアップモデムを使用して接続する] (Connect through phone line and modem) and click [次へ] (Next).**

- A screen to specify the device appears.

7 **Select [モデムー FOMA SH05D (COMx)] (Modem - FOMA SH05D (COMx)) and click [次へ] (Next).**
- A number will replace "x".
- The connection name screen appears.
- For Bluetooth connection, select the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)].
- The screen appears only when multiple modems are installed.

8 **Enter a connection name in the [ISP名] (ISP name) field and click [次へ] (Next).**
- The phone number to dial screen appears.
- The [ISP名] (ISP name) is the name of the Internet service provider.
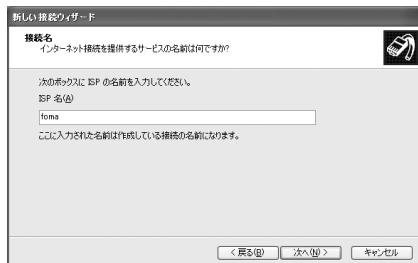
9 **Enter the host number in the [電話番号] (Phone number) field and click [次へ] (Next).**

- The Internet account information screen appears.
- To connect to <cid>=3 (mopera U), enter "＊99＊＊＊3#".
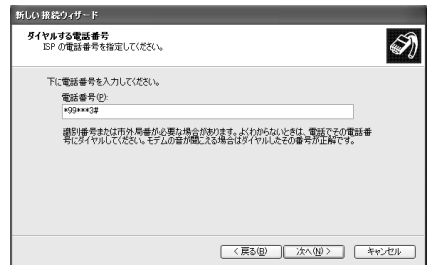
10 **Set options as shown in the example screen and click [次へ] (Next).**

- The new connection wizard complete screen appears.
- When using mopera U or mopera, [ユーザー名] (User name) and [パスワード] (Password) can be left blank to connect.
- When connecting to the Internet using a provider other than mopera U or mopera, enter the user name and password for the provider in the [ユーザー名] (User name) and [パスワード] (Password) fields.
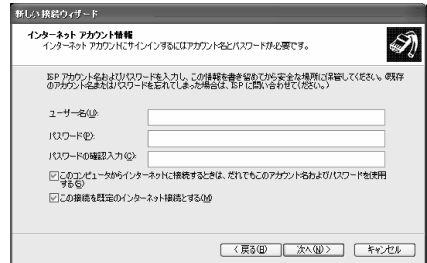
11 **When [新しい接続ウィザードの完了] (New connection wizard completed) appears, click [完了] (Finish).**

- The newly created connection wizard appears.

12 **Confirm the setting information and click [キャンセル] (Cancel).**

- Only confirm the settings without actually connecting.

13 **Select the icon for host created and select [プロパティ] (Properties) in the [ファイル] (File) menu.**

- Properties screen for the host appears.

14 **Confirm all the settings in the [全般] (General) tab.**

- When two or more modems are connected to the PC
  - For FOMA USB Cable with Charge Function 02:
    Make sure that [FOMA SH05D] in [接続の方法] (Connection method) shows ☑. When ☐ appears instead, change to ☑. For modems other than [FOMA SH05D], change ☑ to ☐.
  - For Bluetooth connection: Make sure that the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)] in [接続の方法] (Connection method) shows ☑. When ☐ appears instead, change to ☑. For modems other than the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)], change ☑ to ☐.
- Confirm that [ダイヤル情報を使う] (Use dialing rules) shows ☐. When ☑ appears instead, change to ☐.

15 **Click the [ネットワーク] (Networking) tab, confirm all settings and click [設定] (Settings).**

- Set [呼び出すダイヤルアップサーバーの種類] (Type of dial-up server to call) to [PPP: Windows95/98/NT4/2000, Internet].
- In the [この接続は次の項目を使用します] (Components checked are used by this connection) field, ☑ should appear only for [インターネットプロトコル (TCP/IP)] (Internet protocol (TCP/IP)). Leave [QoS パケットスケジューラ] (QoS packet scheduler) settings as is. No changes are necessary.
- The PPP setting screen appears.
- For TCP/IP settings used for connecting to an Internet service provider, confirm with the Internet service provider or network administrator.

16 **Check all options to show ☐ and click [OK].**

- Properties screen of the host reappears.
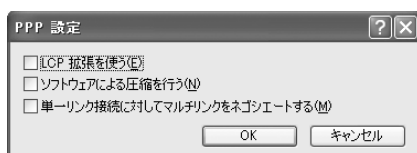
17 **Click [OK] on the [プロパティ] (Properties) screen.**
- The host and TCP/IP protocol are set.
- Refer to P. 28 for details on connecting to dial-up network.

Connecting to dial-up network

Example: Connecting to the dial-up network via FOMA USB Cable with Charge Function 02 on Windows 7
● The screens are different for Windows Vista and Windows XP.

1 **Connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02.**

2 **Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).**
For Windows Vista

　1 Click [スタート] (Start) menu ▶ [接続先] (Connect to) and proceed to step 6.
　For Windows XP

　1 Click [スタート] (Start) menu ▶ [すべてのプログラム] (All programs) ▶ [アクセサリ] (Accessories) ▶ [通信] (Communications) ▶ [ネットワーク接続] (Network connections) and proceed to step 6.

3 **Click [ネットワークとインターネット] (Network and Internet).**

4 **Click [ネットワークと共有センター] (Network and sharing center).**

5 **Click [アダプターの設定の変更] (Change adapter setting) in [タスク] (Task).**
- The dial-up network screen appears.

6 Double-click the connection icon.

- The connection screen appears.
- Alternatively, select the host icon and then select [接続] (Connect) in the [ファイル] (File) menu to display the connection screen.

7 Confirm the settings and click [ダイヤル] (Dial-up).

- The FOMA is connected to the host.
- The phone number set in "Setting dial-up network" (☞P. 23) appears in the [ダイヤル] (Dial-up) field.
- When using mopera U or mopera, [ユーザー名] (User name) and [パスワード] (Password) can be left blank to connect.

■ Disconnecting

Simply closing the browser may not disconnect the connection. Follow the steps below to properly disconnect.

1 Click [ ] in the task tray ▶ an item to disconnect, and click [切断] (Disconnect).

- The connection is disconnected.

For Windows Vista

1 Click [ ] in the task tray ▶ [接続または切断...] (Connect or disconnect), and double-click the disconnection icon.

For Windows XP

1 Click [ ] in the task tray and click [切断] (Disconnect).

29

Sending and receiving data (OBEX™ communication)

Sending/Receiving FOMA terminal data to/from a PC

- The FOMA terminal has OBEX™ function as a data communication protocol. Connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02 (sold separately), and the data communication (data communication with OBEX™ communication) enables sending and receiving phonebook, owner information from the own number screen, schedule, sent mail (including SMS), received mail (including SMS), unsent mail (including SMS), Area mail, memos, melodies, My picture, i-motion, My Documents, bookmark, ToruCa, Decome-Anime Template, and setting information.
- Use the following three types of data communication with the FOMA terminal.
  - Send data one item at a time from a PC to a FOMA terminal (Write 1)
  - Send data in bulk from a PC to a FOMA terminal (Write all)
  - Send data in bulk from a FOMA terminal to a PC (Read all)
- During data communication, the handset will be outside the service area, and functions such as voice/videophone call, i-mode, i-mode mail or packet communication will not be available.
- Even after completion of data communication, [圏外] (outside the service area) may be displayed for a short time.

- Make sure the FOMA terminal is properly connected to the PC. If not connected properly, sending and receiving data may not be possible, or data may be lost.
- Check whether there is enough remaining battery power of the FOMA terminal. If data communication is performed when the battery level is low or empty, sending and receiving data may not be possible, or data may be lost. Charging the FOMA terminal with the wireless charger during data communication is recommended.
- Check the PC power supply as well. If not turned on, sending and receiving data may not be possible, or data may be lost.
- Perform data communication with the FOMA terminal in stand-by. When movie/i-motion is set as the stand-by display, stop movie/i-motion playback before performing data communication.
- During communication (voice/videophone call and data communication), data cannot be sent or received. Also, when sending and receiving data, other data communication cannot be performed. However, receiving a call, right after data communication has begun, may be possible. In such cases, the sending or receiving of data is canceled.
- docomo mini UIM card phonebook data cannot be sent.
- Mail with i-αppli start up designations can be sent after attached data has been deleted.
- Mail attachment data exceeding 100 KB (including the message text) are deleted and only message is sent.
- Data such as phonebook entries cannot be sent or received while All lock or Personal data lock is set.
- Phonebook data cannot be sent or received when Keypad dial lock is set.
- Depending on data size, data communication may take some time. In addition, the FOMA terminal may not be able to receive data due to data size.
- When receiving phonebook data, data will be added from memory number [0010] for single entry, or in accordance with memory number information when receiving all entries.
- When receiving all phonebook entries, Profile (excluding first phone number) registered in Own number will be overwritten.
- Phonebook entries are sent in memory number order.
- When sending all phonebook entries, Profile from own number screen is also sent.
- PDF files which exceed 2 MB cannot be sent.
- Alternatively, send and receive data (OBEX) with the following methods (Some data may not be sent or received depending on the function).
  - Ir communication ■ microSD Card ■ Bluetooth communication

■ Devices required for data communication (OBEX™ communication)
- To perform data communication, downloading data transfer software complied with OBEX™ standard from the Internet, and installing this software to your PC is required. Refer to the software manual for information on operating environment and installation methods. In addition, installation of the FOMA communication configuration file (☞P. 7 to P. 9) is required in advance.
- A FOMA USB Cable with Charge Function 02 is required to connect the FOMA terminal to a PC.

- The FOMA terminal data communication (OBEX™ communication) function complies with IrMC™ 1.1 standard. However, depending on the application, some data may not be sent or received even when the other party's terminal complies with IrMC™ 1.1 standard.

Sending single data item (Write 1)

- Send data from a PC to a FOMA terminal one item at a time.
- Sending one item at a time from a FOMA terminal to a PC is not possible.
- Data transfer operating methods differ depending on the software used. Refer to the software manual for details.

1 **Send data from a PC using data transfer software (Write 1).**
- Refer to the software manual for details on sending data.

- When phonebook data is sent (from a PC to the FOMA terminal) one entry at a time, entries are saved to the smallest available memory number from [0010] to [1999]. If all memory numbers from [0010] to [1999] are already used, entries are saved to the smallest available memory number between [0000] and [0009].
- When phonebook data is received and 2,000 entries (names, phone numbers or mail addresses) are already registered, or more than 2,000 entries have been registered, a message appears notifying that no further entries can be saved.

Sending all data (Write all/Read all)

- Write and read all data at once, between a PC and the FOMA terminal.
- "Write all" and "Read all" operations require data transfer software and your FOMA terminal authentication password.
- Data transfer operating methods differ depending on the software used. Refer to the software manual for details.

1 **Send data from a PC using data transfer software (Forward all).**
- Refer to the software manual for details on sending data.
- Entering your authentication password on the PC will be required.
- Enter your authentication password (four digits).

2 **Enter the terminal security code (four to eight digits) and the authentication password (four digits).**

3 **Start data transmission.**

- Performing Write all from a PC to your FOMA terminal replaces all data stored in the FOMA terminal. All data previously stored in your FOMA terminal will be deleted. This includes phonebook, schedule, and protected mail data saved as secret data. However, for an image, i-motion, Melody, PDF or Decome-Anime Template in the Data box, original data is not deleted but saved additionally.
- If an error occurs during data transmission from a PC to the FOMA terminal, all data stored in the FOMA terminal may be deleted. Check the cable connection, the FOMA terminal battery level, and the PC power supply before performing Write all. Charging the FOMA terminal with the wireless charger during data communication is recommended.
- Depending on the connected device, the transmission status (bar display) may not appear.

List of AT command

AT commands

AT commands are commands used to set the FOMA terminal functions from a PC. When AT commands are entered from a PC, the FOMA terminal performs the corresponding operations.

■ AT command input format

AT commands must always start with "AT". Enter in single-byte alphanumeric characters.

Input example

ATD＊99＊＊＊1#⏎

Return symbol: Entered by pressing the Enter key. Used to separate commands.

Parameter: The command argument

Command: The command name

Each AT command including parameter (number or symbol) following the command must be entered on a single line. A single line means the characters from the first character until the character directly before the ⏎ is pressed. Up to 160 characters (including "AT") can be entered.

■ AT command input modes

To operate the FOMA terminal using AT commands, set the PC to terminal mode. In terminal mode, the characters entered from the keyboard are sent directly to the communication port to operate the FOMA terminal.

● Offline mode

The FOMA terminal is in stand-by. Normally, this mode is used to operate the FOMA terminal using AT commands.

● Online data mode

The FOMA terminal is connected and performing data communication. When an AT command is entered in this mode, the characters are sent directly to the receiver, and may cause the receiver's modem to malfunction. Do not enter AT commands in this mode.

● Online command mode

Even when the FOMA terminal is connected and performing communication, with special operations, operation by AT commands is possible. When in this mode, AT commands are executed while remaining connected to the receiver, and communications can be resumed after the operation is completed.

● When a call/transmission is made from an external device with 64K data communication, Number A is used when 2in1 mode is set to [A mode]/[Dual mode]. Number B is used when 2in1 mode is set to [B mode]. However, if Redial is performed with the AT command when [Dual mode] is set, Redial is performed with the last dialed number.

● Terminal mode enables a single PC to operate like a communication terminal. Characters entered from the keyboard are sent to the device or line connected to the communication port.

■ Switching between online data mode and online command mode

Use either of the following methods to switch the FOMA terminal from online data mode to online command mode.

● Enter "+++" command, or enter the set code in the "S2" register.
● Turn the RS-232C* ER signal OFF when set to "AT&D1".

To switch from online command mode to online data mode, enter "ATO⏎".

* USB interface emulates an RS-232C signal line, enabling RS-232C signal line control by the communication application.

List of AT command

[M]: AT commands that can be used with the FOMA SH05D Modem Port.

AT command	Overview	Parameter/Explanation	Execution example
AT [M]	—	The modem function of the FOMA terminal can be controlled by adding commands in the list to the end of this command. ※ Returns OK if only AT is entered.	AT⏎ OK
AT%V [M]	Displays FOMA terminal version.[2]	—	AT%V⏎ Ver1.00 OK
AT&C\<n> [M]	Sets operating condition for circuit CD (DCD) signals sent to DTE.[1]	n=0 : Circuit CD always ON n=1 : Circuit CD signal changes according to line connection status (default setting) When "&C1" is set, the CD signal is turned "ON" directly before the CONNECT signal is sent when connection is completed. The CD signal is turned "OFF" right before "NO CARRIER" is sent when the circuit is disconnected.	AT&C1⏎ OK
AT&D\<n> [M]	Sets the operation when the circuit ER (DTR) signal received from DTE changes from "ON" to "OFF" during online data mode.[1]	n=0 : Ignores status (always considers signal ON) n=1 : Sets online command mode when signal changes from ON to OFF n=2 : Disconnects line and activates offline mode when signal changes from ON to OFF (default setting)	AT&D1⏎ OK
AT&E\<n> [M]	Selects speed display specifications when connecting.[1]	n=0 : Wireless area communication speed appears n=1 : DTE serial communication speed appears (default setting)	AT&E0⏎ OK
AT&F\<n> [M]	Resets the FOMA terminal's AT command settings to their default settings. If this command is entered during communication, the settings are reset after disconnected.[2]	Can only be set as n=0 (can be omitted)	AT&F⏎ OK
AT&S\<n> [M]	Controls when the signal of data set ready (DR) is set to DTE.[1]	n=0 : Always ON (default setting) n=1 : DR signal ON when line is connected	AT&S0⏎ OK
AT&W\<n> [M]	Stores the current settings in the FOMA terminal's memory.[2, 5]	Can only be set as n=0 (can be omitted)	AT&W⏎ OK
AT∗DANTE [M]	Displays the reception status of the FOMA terminal.[2]	The result from this command is in the following format. ∗DANTE:\<m> \<m> 0 : Status where outside the service area appears on the FOMA terminal 1 : Status where zero or one antenna appears on the FOMA terminal 2 : Status where two antennas appears on the FOMA terminal 3 : Status where three antennas appears on the FOMA terminal	AT∗DANTE⏎ ∗DANTE:3 OK
AT∗DGANSM= \<n> [M]	Sets Accept/Reject call modes for incoming packet communications. This setting is only valid for incoming packet communications after entering setup commands.[2]	n=0 : Sets Reject call and Accept call settings to [OFF] (default setting) n=1 : Sets Reject call settings to [ON] n=2 : Sets Accept call settings to [ON]	AT∗DGANSM=0⏎ OK AT∗DGANSM?⏎ ∗DGANSM:0 OK

AT command	Overview	Parameter/Explanation	Execution example
AT∗DGAPL=<n> [,<cid>] [M]	Sets host (APN) to accept transmissions for incoming packet communications. APN settings use <cid> parameter defined by "+CGDCONT".*2	Adds or deletes from Accept calls list with <n> parameter. If <cid> parameter is abbreviated, adds (<n>=0) or deletes (<n>=1) all of <cid> to or from list. Adds (deletes) <cid> not defined with "+CGDCONT" to (from) list with this command. n=0：Adds to list (Adds APN defined by <cid> to Accept calls list) n=1：Deletes from list (Deletes APN defined by <cid> from Accept calls list)	AT∗DGAPL=0,1↵ OK AT∗DGAPL?↵ ∗DGAPL:1 OK
AT∗DGARL=<n> [,<cid>] [M]	Sets host (APN) to reject transmissions for incoming packet communications. APN settings use <cid> parameter defined by "+CGDCONT".*2	Adds or deletes from Reject calls list with <n> parameter. If <cid> parameter is abbreviated, adds (<n>=0) or deletes (<n>=1) all of <cid> or from list. Adds (deletes) <cid> not defined with "+CGDCONT" to (from) list with this command. n=0：Adds to list (Adds APN defined by <cid> to Reject calls list) n=1：Deletes from list (Deletes APN defined by <cid> from Reject calls list)	AT∗DGARL=0,1↵ OK AT∗DGARL?↵ ∗DGARL:1 OK
AT∗DRPW [M]	Displays the reception power sent from FOMA terminal.*2	The result from this command is in the following format. ∗DRPW:<m> m：0 to 75 (reception power)	AT∗DRPW↵ ∗DRPW:0 OK
AT∗DGPIR=<n> [M]	Setting this command is valid when establishing communication. Enables adding 186 (send caller ID) and 184 (not send caller ID) to host number. Also available in dial-up network settings.*2	n=0：When establishing packet communication, connects to host (APN) directly (default setting) n=1：When establishing packet communication, adds 184 and connects to host (APN) n=2：When establishing packet communication, adds 186 and connects to host (APN) When 186 (send caller ID)/184 (not send caller ID) are set by this command and in the dial-up network settings, refer to "Send/Not send setting on dial-up networks" on P. 23.	AT∗DGPIR=0↵ OK AT∗DGPIR?↵ ∗DGPIR:0 OK
+++ [M]	Switches the FOMA terminal mode from online data mode to online command mode. Escape guard interval is fixed at 1 second.*2	—	(During communication) +++ (Does not appear) OK
AT+CACM=[<p asswd>] [M]	Resets the total accumulated cost recorded on the UIM.*2	Resets the total accumulated cost recorded on the UIM, if the password matches. <passwd>: SIM PIN2 ※ Encloses this string parameter with quotation marks (" ") when entering.	AT+CACM="0123" ↵ OK
AT+CAOC=[<m ode>] [M]	Inquires the current accumulated cost.*2	<mode> 0：Inquires the cost of current call The result from this command is in the following format. +CAOC:"<ccm>"	AT+CAOC↵ +CAOC:"00001E" OK

AT command	Overview	Parameter/Explanation	Execution example
AT+CBC [M]	Inquires the battery status.*2	The result from this command is in the following format. +CBC:<bcs>,<bcl> <bcs> 0 : The battery operates the FOMA terminal 1 : Charging the battery 2 : The battery is unconnected 3 : Reducing the power <bcl> 0 to 100 (remaining battery power)	AT+CBC⏎ +CBC:0,80 OK
AT+CBST=[<sp eed>[,<name>[, <ce>]]] [M]	Sets the bearer service when establishing transmission. This setting is only valid when AT+FCLASS=<n> command (☞P. 38) = 0.*1	<speed> 116 : 64K data communication (default setting) <name> 1 : Fixed value <ce> 0 : Fixed value	AT+CBST=116,1,0 ⏎ OK
AT+CEER [M]	Displays disconnection reason for preceding communication session.*2	Refer to "Reasons for disconnection" (☞P. 42).	AT+CEER⏎ +CEER:36 OK
AT+CGDCONT [M]	Sets host (APN) accessed when establishing packet communication.*2	Refer to "More on AT commands" (☞P. 42).	Refer to "More on AT commands" (☞P. 42).
AT+CGEQMIN [M]	Registers criterion determining whether to permit QoS (Quality of Service) sent from network when establishing packet communication.*2	Refer to "More on AT commands" (☞P. 43).	Refer to "More on AT commands" (☞P. 43).
AT+CGEQREQ [M]	Sets QoS (Quality of Service) requested of network during packet communication.*2	Refer to "More on AT commands" (☞P. 44).	Refer to "More on AT commands" (☞P. 44).
AT+CGMR [M]	Displays FOMA terminal version.*2	—	AT+CGMR⏎ 12345678901234 56 OK

AT+CGREG=
<n>
 	
[M]
	Sets whether to send network registration status. Service area information (inside/outside) is sent.*1	<n>
		0 : Does not set (default setting)
		1 : Sets
		  When AT+CGREG=1 is set, information is sent in the format "+CGREG:<stat>".
		  0, 1, 4 or 5 can be set for the <stat> parameter.
		<stat>
		0 : Outside area
		1 : Inside area (home)
		4 : Unknown
		5 : Inside area (visitor)
			AT+CGREG=1⏎
			OK
			(Set to send)
			AT+CGREG?⏎
			+CGREG:1,0
			
			OK
			(Indicates outside area)
			+CGREG:1
			(Moved from outside area to inside area)

AT+CGSN [M]	Displays the FOMA terminal's serial number.*2	—	AT+CGSN⏎ 12345678901234 5 OK

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AT command	Overview	Parameter/Explanation	Execution example
AT+CLIP=\<n>	Shows PC calling number when receiving 64K data communication.[*1]	\<n> 0 : Does not output results (default setting) 1 : Outputs results Displays +CLIP:\<n>,\<m> for "AT+CLIP?". \<m> 0 : NW setting to not send own number during transmissions 1 : NW setting to send own number during transmissions 2 : Unknown	AT+CLIP=0⏎ OK AT+CLIP?⏎ +CLIP:0,1 OK
AT+CLIR=\<n> [M]	Sets whether to send terminal's phone number when establishing 64K data communication.[*2]	\<n> 0 : Follows the service agreement 1 : Does not send 2 : Sends (default setting) Displays +CLIR:\<n>,\<m> for AT+CLIR?. \<m> 0 : CLIR is not running (always send) 1 : CLIR is always running (never send) 2 : Unknown 3 : CLIR temporary mode (default setting is Do not send) 4 : CLIR temporary mode (default setting is Send)	AT+CLIR=0⏎ OK AT+CLIR?⏎ +CLIR:2,3 OK
AT+CDIP=\<n> [M]	Sets whether to send an incoming sub-address. Also, check the status of Multi Number subscription.	\<n> 0 : Does not display sub-addresses (default setting) 1 : Displays sub-addresses \<m> 0 : Multi Number is not subscribed 1 : Subscribing Multi Number 2 : Unknown	AT+CDIP=0⏎ OK AT+CDIP?⏎ +CDIP:0,1 OK
AT+CMEE=\<n> [M]	Sets the manner to display FOMA terminal error reports.[*1]	Sets whether to display errors only as "ERROR", or to display reason with text or numerical value. \<n> 0 : Displays "ERROR" and no result codes (default setting) 1 : Displays result codes with numerical values 2 : Displays result codes with text When reports are set to display by setting "n=1" or "n=2", they are displayed in the following format: +CME ERROR:xxxx xxxx is a numerical value or text. Refer to "Error reports" (☞P. 42).	AT+CMEE=0⏎ OK AT+CNUM⏎ ERROR AT+CMEE=1⏎ OK AT+CNUM⏎ +CME ERROR:10

AT+CNUM
 	
[M]
	Displays FOMA terminal phone number.[*2]	number : Phone number
		type : 129 or 145
		
		   129 : Does not include + international access code
		   145 : Includes + international access code
			AT+CNUM⏎
			+CNUM:,"+8190 12345678",145
			
			OK

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AT command	Overview	Parameter/Explanation	Execution example
AT+COPS=[<mode>[,<format>[,<oper>]]] [M]	Selects a telecommunications carrier to be connected.[2]	<mode> 0 : Auto (Automatically searches network and switch telecommunications carriers) 1 : Manual (Connects to the telecommunications carrier specified in <oper>) 2 : Cancels (disconnects) the connection to the telecommunications carrier ※ Unsupported. 3 : Does not make mapping 4 : Manual auto (Performs "Auto" processing if not connected to the telecommunications carrier specified in <oper>) ※ Unsupported. <format> 2 : Fixed value <oper> is indicated by a hexadecimal number consisting of a country code (MCC) and a network code (MNC). The formats are shown below. 　Digit 1 of MCC...octet 1 bits 1 to 4. 　Digit 2 of MCC...octet 1 bits 5 to 8. 　Digit 3 of MCC...octet 2 bits 1 to 4. 　Digit 3 of MNC...octet 2 bits 5 to 8. 　Digit 2 of MNC...octet 3 bits 5 to 8. 　Digit 1 of MNC...octet 3 bits 1 to 4.	AT+COPS =1,2,"44F001" ⏎ OK (Connects to MCC:440MNC:10)
AT+CPAS [M]	Inquires the activity status of the FOMA terminal.[2]	The result from this command is in the following format. +CPAS:<pas> <pas> 0 : AT commands can be sent/received 1 : AT commands cannot be sent/received (does not send the +CPAS:1 result) 2 : Unknown 3 : AT commands can be sent/received and the FOMA terminal is receiving a call 4 : AT commands can be sent/received and performing data communication	AT+CPAS⏎ +CPAS:0 OK
AT+CPIN=<pin>[,<newpin>] [M]	Enters the UIM password (PIN1, PIN2).[2]	<pin> Enters PIN1 while waiting for PIN1 input (Enter <pin> parameter only) Enters PIN2 while waiting for PIN2 input (Enter <pin> parameter only) Enters PUK1 while waiting for PUK1 input Enters PUK2 while waiting for PUK2 input ※ Encloses this string parameter with quotation marks (" ") when entering. <newpin> Enters a new PIN1 while waiting for PUK1 input Enters a new PIN2 while waiting for PUK2 input ※ Encloses this string parameter with quotation marks (" ") when entering.	AT+CPIN?⏎ +CPIN:SIM PIN1 OK (Indicates waiting status for PIN1 input) AT+CPIN="1234" ⏎ OK AT+CPIN?⏎ +CPIN:SIM PUK1 OK (Indicates waiting status for PUK1 input) AT+CPIN="12345 678","1234"⏎ OK

AT command	Overview	Parameter/Explanation	Execution example
AT+CR=<mode> [M]	Sets whether to display packet communication/64K data communication before "CONNECT" result code is displayed during line connection.[1] "GPRS" is displayed for packet communication, and "SYNC" is displayed for 64K data communication.	<mode> 0 : Does not display when line is connected (default setting) 1 : Displays when line is connected	AT+CR=1⏎ OK ATD∗99∗∗∗1# +CR:GPRS CONNECT
AT+CRC=<n> [M]	Sets to use extended results code at reception.[1]	n=0 : Does not use extended results code (default setting) n=1 : Uses extended result codes	AT+CRC=0⏎ OK
AT+CREG=<n> [M]	Sets service area information on or off.[1]	When AT+CREG=1 is set, information is set in the format "+CREG:<stat>". 0, 1, 4 or 5 can be set for the <stat> parameter. <n> 0 : Does not send (default setting) 1 : Sends <stat> 0 : Outside area 1 : Inside area (home) 4 : Unknown 5 : Inside area (visitor)	AT+CREG=1⏎ OK (Set to send) AT+CREG?⏎ +CREG:1,0 OK (Indicates outside area) +CREG:1 (Moved from outside area to inside area)
AT+CUSD=[<n>[,<str>[,<dcs>]]] [M]	Changes setting toward net for optional services, etc.[1]	<n> 0 : Answers without intermediate result (default setting) 1 : Answers with intermediate result <str> Service code ※ Refer to "Mobile Phone User's Guide [Network Services]". <dcs> 0 : Fixed value	AT+CUSD=0,"xxx xxx"⏎ OK
AT+FCLASS=<n> [M]	Sets the mode.[1]	<n> 0 : Data (fixed value)	AT+FCLASS=0⏎ OK
AT+GCAP [M]	Displays the ability list of the FOMA terminal.[2]	—	AT+GCAP⏎ +GCAP:+CGSM, +FCLASS,+W OK
AT+GMI [M]	Displays FOMA terminal maker name in single-byte alphanumeric characters.[2]	—	AT+GMI⏎ SHARP OK
AT+GMM [M]	Displays abbreviated FOMA terminal product name (FOMA SH05D) in alphanumeric characters.[2]	—	AT+GMM⏎ FOMA SH05D OK
AT+GMR [M]	Displays FOMA terminal version.[2]	—	AT+GMR⏎ Ver1.00 OK

AT command	Overview	Parameter/Explanation	Execution example
AT+IFC=<n,m> [M]	Sets local flow control format between the PC and FOMA terminal.*1	DCE by DTE (<n>) 0 : No flow control 1 : XON/XOFF flow control 2 : RS/CS (RTS/CTS) flow control (default setting) DTE by DCE (<m>) 0 : No flow control 1 : XON/XOFF flow control 2 : RS/CS (RTS/CTS) flow control (default setting)	AT+IFC=2,2⏎ OK
AT+WS46? [M]	Displays wireless network used to call. Incoming signals are not affected.*2	n=22 : FOMA network (fixed value)	AT+WS46?⏎ 22 OK
A/ [M]	Performs the preceding executed command.*2	—	A/ OK
ATA [M]	Performs incoming process for packet or 64K data if entered when receiving the data.*2	Enter "ATA184⏎" (arrival call action for anonymous call) or "ATA186⏎" (arrival call action for identified call) while receiving packets.	RING ATA⏎ CONNECT
ATD [M]	Establishes communication.*2, 3	● Packet communication ATD∗99∗∗∗<cid>#⏎ When ATD∗99# is entered: Uses <cid>=1 (default setting) (When <cid> is not entered, setting becomes <cid>=1). When syntax starting with ATD184∗99∗∗∗<cid># is entered: "184" is added to host (APN) defined by specified <cid> (Alternatively, "186" can be added by same operation to turn caller ID sending to ON). ● 64K data communication ATD [parameter] [phone number] ⏎ Number cannot be dialed if characters other than 0 to 9, ∗, #, +, A, a, B, C, c, D, d, hyphens (-), spaces, T, t, P, p, !, W, w, @ or commas (,) are included. Characters highlighted with ▢ can be entered but are ignored during dialing.	ATD∗99∗∗∗1#⏎ CONNECT
ATE<n> [M]	Sets whether the FOMA terminal returns echo of AT commands sent from the PC.*1	n=0 : Does not return echo n=1 : Returns echo (default setting) Normally, set to n=1. If the PC has an echo function, set to n=0.	ATE1⏎ OK
ATH [M]	Disconnects line when entered during packet communication or 64K data communication.*2	—	(During communication) +++ (Does not appear) OK ATH⏎ NO CARRIER
ATI<n> [M]	Displays the verification code.*2	n=0 : NTT DoCoMo n=1 : Displays abbreviated product name (FOMA SH05D) n=2 : Displays the product version in a format such as "VerX.XX" n=3 : Displays each element of ACMP signals n=4 : Displays details of the communication functions provided in the FOMA terminal	ATI0⏎ NTT DoCoMo OK
ATO [M]	Returns to online data mode from online command mode during communication.*2	—	ATO⏎ CONNECT

AT command	Overview	Parameter/Explanation	Execution example
ATQ<n> [M]	Sets whether to display result codes.*1	n=0 : Displays result codes (default setting) n=1 : Does not display result codes	ATQ0⏎ OK
ATV<n> [M]	Sets manner of displaying result codes.*1	Displays all result codes with numbers or text. n=0 : Displays result codes with numbers n=1 : Displays result codes with text (default setting)	ATV1⏎ OK
ATX<n> [M]	Sets whether to include speed in the CONNECT display when connecting. Also detects busy tone or dial tone.*1	Busy tone detection: 　Sends BUSY response when number dialed is busy. Dial tone detection: 　Determines whether FOMA terminal is connected. Speed display: 　Sets whether to include speed in the CONNECT display when connecting. n=0 : No busy tone detection, no dial tone detection, no speed display n=1 : No busy tone detection, no dial tone detection, speed display n=2 : No busy tone detection, dial tone detection, speed display n=3 : Busy tone detection, no dial tone detection, speed display n=4 : Busy tone detection, dial tone detection, speed display (default setting)	ATX1⏎ OK
ATZ<n> [M]	Resets the FOMA terminal's AT command settings.*2, 4	Resets the FOMA terminal's AT command settings to the values set in non-volatile memory. If this command is entered during communication, the settings are reset after disconnected. Can only be set as n=0 (can be omitted)	(When online) ATZ⏎ NO CARRIER (When offline) ATZ⏎ OK
ATS0=<n> [M]	Sets number of rings before FOMA terminal automatically receives.*1	n=0 : No automatic receiving (default setting) n=1 to 255 : Automatically receives after sets number of rings	ATS0=0⏎ OK
ATS2=<n> [M]	Sets the escape character.	n=0 to 127 (default setting: n=43) When n=127 is set, escape is disabled.	ATS2=43⏎ OK ATS2?⏎ 043 OK
ATS3=<n> [M]	Sets the carriage return (CR) character.	Defines the character used to recognize the end of an AT command character string. Appended to the end of the echoed command character string and result code. The settings cannot be changed (default setting: n=13).	ATS3=13⏎ OK ATS3?⏎ 013 OK
ATS4=<n> [M]	Sets the line feed (LF) character.	Appended after the CR character, when result codes are displayed as text. The settings cannot be changed (default setting: n=10).	ATS4=10⏎ OK ATS4?⏎ 010 OK
ATS5=<n> [M]	Sets the backspace (BS) character.	When detected while entering an AT command, the last character in the input buffer is deleted. The settings cannot be changed (default setting: n=8).	ATS5=8⏎ OK ATS5?⏎ 008 OK
ATS6=<n> [M]	Sets pause time (seconds) until dialing.	Sets a register, but has no other effect. n : 2 to 10 (default setting: n=5)	ATS6=10⏎ OK

AT command	Overview	Parameter/Explanation	Execution example
ATS8=<n> [M]	Sets pause time (seconds) until comma dialing.	Sets a register but does not affect the pause time (3 seconds). n=0 : Does not pause n : 1 to 255 (default setting: n=3)	ATS8=3⏎ OK
ATS10=<n> [M]	Sets the delay time (seconds) for automatic disconnection (1/10 seconds).*1	Sets a register, but has no other effect. n : 1 to 255 (default setting: n=1)	ATS10=1⏎ OK
ATS30=<n> [M]	Disconnects when no data is sent/ received for at least this amount of time.	Only valid during 64K data communication. <n> is set in minutes. n : 0 to 255 (default setting: n=0) n=0 sets inactive timer off.	ATS30=3⏎ OK
ATS103=<n> [M]	Sets delimiter used when adding an incoming sub-address to number dialed.	Only valid during 64K data communication. n=0 : ＊Asterisk n=1 : /Slash (default setting) n=2 : ¥Yen mark or backslash	ATS103=0⏎ OK

ATS104=<n>
 	
[M]
	Sets delimiter used when adding an outgoing sub-address to number dialed.	Only valid during 64K data communication.
		n=0 : #Pound sign
		n=1 : %Percent symbol (default setting)
		n=2 : &Ampersand
			ATS104=0⏎
			OK

AT¥S [M]	Displays current command and S register settings.*2	—	AT¥S⏎ E1 Q0 V1 X4 &C1 &D2 &S0 &E1 ¥V0 S000=000 S002=043 S003=013 S004=010 S005=008 S006=005 S007=060 S008=003 S010=001 S030=000 S103=001 S104=001 OK
AT¥V<n> [M]	Selects response code type used during connection.*1	Only valid when the ATX<n> command (☞P. 40) setting is not n=0. n=0 : Does not use extended result codes 　　　(default setting) n=1 : Uses extended result codes	AT¥V1⏎ OK

*1 Stored in FOMA terminal's memory using AT&W commands.
*2 Not stored in FOMA terminal's memory using AT&W commands. Not reset with AT&F or ATZ commands.
*3 Perform Redial with ATDN⏎ or ATDL⏎.
*4 If the ATZ command is executed before the AT&W command is used, terminal settings return to last written memory, and prior changes are erased.
*5 Settings written into the FOMA terminal's memory using the AT&W command is stored as non-volatile data when power is turned off.

Reasons for disconnection

■ Packet communication

Value	Reason
27	Host (APN) does not exist, or was incorrect.
30	Disconnected by network.
33	No packet communication subscription.
36	Disconnected properly.

■ 64K data communication

Value	Reason
1	Specified number does not exist.
16	Disconnected properly.
17	Line busy.
18	Number was dialed, but no response received within specified time.
19	Dialed number is making a call.
21	Dialed number refused incoming call.
63	Network service or option is not valid.
65	Transmission capacity not provided was specified.
88	Dialed number of terminal with different terminal attribute, or call was received.

Error reports

Numerical display	Text display	Reason
10	SIM not inserted	docomo mini UIM card not inserted.
15	SIM wrong	A non-DOCOMO SIM (IC card equivalent to docomo mini UIM card) is inserted.
16	incorrect password	Password is incorrect.
100	unknown	Unknown error occurred.

More on AT commands

■ Command name: +CGDCONT= [parameter]

Overview
Sets host (APN) accessed when establishing packet communication.
Not stored in FOMA terminal's memory with AT&W commands. Not reset with AT&F or ATZ commands.

Syntax
+CGDCONT=[<cid>[,"<PDP_type>"[,"<APN>"]]]⏎

Parameter description
<cid>   : 1 to 10
<PDP_type>   : PPP or IP
<APN>   : Optional
● <cid> is a number for managing hosts (APNs) used for packet communication, registered in the FOMA terminal. It can be set between 1 and 10 in the FOMA terminal. The default settings are "mopera.ne.jp" for <cid>=1 (<PDP_type> is "PPP"), "mopera.net" for <cid>=2 (<PDP_type> is "PPP"), "mopera.net" for <cid>=3 (<PDP_type> is "IP") and "mpr.ex-pkt.net" for <cid>=4 (<PDP_type> is "PPP"). Set cid in 5 to 10. <APN> is a user-specified character string for each connection, indicating the host.

Execution example
Command when registering host (APN) name "abc" (for <cid>=5)
AT+CGDCONT=5,"PPP","abc"⏎
OK

Operation when parameter is abbreviated

AT+CGDCONT=
Clears all <cid> settings. Resets <cid>=1 to 4 setting to default value.
AT+CGDCONT=<cid>
Clears specified <cid> setting. Resets <cid>=1 to 4 setting to default value.
AT+CGDCONT=?
Displays list of values that can be set.
AT+CGDCONT?
Displays current settings.

■ Command name: +CGEQMIN=[parameter]

Overview

Registers criterion determining whether to permit QoS (Quality of Service) sent from the network when establishing PPP packet communication.
Not stored in FOMA terminal's memory with AT&W commands. Not reset with AT&F or ATZ commands.

Syntax

AT+CGEQMIN=[<cid> [,, <Maximum bitrate UL> [, <Maximum bitrate DL>[,,,,<Maximum SDU size>]]]]⏎

Parameter description

<cid>   : 1 to 10
<Maximum bitrate UL>   : None (initial setting) or 5760
<Maximum bitrate DL>   : None (initial setting) or 7232
<Maximum SDU size>
   When <PDP_type> is PPP : 10 (initial setting) to 1500 or 1502
   When <PDP_type> is IP   : 10 (initial setting) to 1500

- <cid> is a number for managing hosts (APNs) used for packet communication, registered in the FOMA terminal. [Maximum bitrate UL] and [Maximum bitrate DL] set the maximum uplink and downlink transmission speed (kbps) between the FOMA terminal and base station. When set to [None] (default setting), all speeds are permitted. However, when set to "5760" and "7232", connections established under these speeds are not permitted, so packet communication connection may not be established. Set the maximum permitting SDU size for [Maximum SDU size]. Note that when "10 (initial setting) to 1500 or 1502" is set, connections established under these values are not permitted, and packet communication may not be connected. Note that connections established under "70" are not available.

Execution examples

Setting (1) is the initial setting for all cid.
(1) Command permitting all uplink/downlink speeds (for <cid>=5)
   AT+CGEQMIN=5⏎
   OK
(2) Command permitting uplink speeds of 5,760 kbps, downlink speeds of 7,232 kbps, and maximum permitting SDU size 1500 (for <cid=6>)
   AT+CGEQMIN=6,,5760,7232,,,,1500⏎
   OK
(3) Command permitting uplink speeds of 5,760 kbps and all downlink speeds (for <cid>=7)
   AT+CGEQMIN=7,,5760⏎
   OK
(4) Command permitting all uplink speeds and downlink speeds of 7,232 kbps (for <cid>=8)
   AT+CGEQMIN=8,,,7232⏎
   OK

Operation when parameter is abbreviated

AT+CGEQMIN=
Clears all <cid> settings.
AT+CGEQMIN=<cid>
Returns specified <cid> setting to default setting.
AT+CGEQMIN=?
Displays list of values that can be set.
AT+CGEQMIN?
Displays current settings.

■ Command name: +CGEQREQ=[parameter]

Overview

Sets QoS (Quality of Service) required of the network when establishing PPP packet communication.
Not stored in FOMA terminal's memory with AT&W commands. Not reset with AT&F or ATZ commands.

Syntax

AT+CGEQREQ=[<cid> [,<Traffic class> [,<Maximum bitrate UL> [,<Maximum bitrate DL> [,,,,<Maximum SDU size>]]]]]⏎

Parameter description

This setting is assigned to each cid by default value.

<cid>   : 1 to 10
<Traffic class>   : 2 or 3
    2: interactive (initial setting)
    3: background
<Maximum bitrate UL>   : None (initial setting) or 64 to 5760
<Maximum bitrate DL>   : None (initial setting) or 64 to 7232
However, even if the values of [Maximum bitrate UL] and [Maximum bitrate DL] are permitted level, they may be set to the values whose fractions were discarded.
<Maximum SDU size>
    When <PDP_type> is PPP : 10 to 1500 or 1502 (initial setting)
    When <PDP_type> is IP   : 10 to 1500 (initial setting)
● <cid> is a number for managing hosts (APNs) used for packet communication, registered in the FOMA terminal.

Execution examples

Setting (1) is set to each cid as initial setting.
(1) Command when requesting connection without setting uplink/downlink speeds (for <cid>=5, Traffic class=2)
    AT+CGEQREQ=5
    OK
(2) Command when requesting connection at uplink speeds of 5,760 kbps, downlink speeds of 7,232 kbps, and maximum permitting SDU size 1500 (for <cid>=6, Traffic class=2)
    AT+CGEQREQ=6,2,5760,7232,,,,1500
    OK
(3) Command when requesting connection without setting uplink speeds of 5,760 kbps or downlink speeds (for <cid>=7, Traffic class=2)
    AT+CGEQREQ=7,2,5760
    OK
(4) Command when requesting connection at downlink speeds of 7,232 kbps without setting uplink speeds (for <cid>=8, Traffic class=2)
    AT+CGEQREQ=8,2,,7232
    OK

Operation when parameter is abbreviated

AT+CGEQREQ=
Returns all <cid> settings to default settings.
AT+CGEQREQ=<cid>
Returns specified <cid> setting to default setting.
AT+CGEQREQ=?
Displays list of values that can be set.
AT+CGEQREQ?
Displays current settings.

Result codes

■ Result codes

Numerical display	Text display	Meaning
0	OK	Successfully executed.
1	CONNECT	Connected to number dialed.
2	RING	Call detected.
3	NO CARRIER	Line disconnected.
4	ERROR	Command not accepted.
6	NO DIALTONE	No dial tone detected.
7	BUSY	Detecting busy tone.

Numerical display	Text display	Meaning
8	NO ANSWER	Connection completed. The server connection timed out.
100	RESTRICTION	Network restricted.
101	DELAYED	Redial restricted.

■ Extended result codes

Numerical display	Text display	Meaning
5	CONNECT 1200	FOMA terminal and PC connected at 1,200 bps.
10	CONNECT 2400	FOMA terminal and PC connected at 2,400 bps.
11	CONNECT 4800	FOMA terminal and PC connected at 4,800 bps.
13	CONNECT 7200	FOMA terminal and PC connected at 7,200 bps.
12	CONNECT 9600	FOMA terminal and PC connected at 9,600 bps.
15	CONNECT 14400	FOMA terminal and PC connected at 14,400 bps.
16	CONNECT 19200	FOMA terminal and PC connected at 19,200 bps.
17	CONNECT 38400	FOMA terminal and PC connected at 38,400 bps.
18	CONNECT 57600	FOMA terminal and PC connected at 57,600 bps.
19	CONNECT 115200	FOMA terminal and PC connected at 115,200 bps.
20	CONNECT 230400	FOMA terminal and PC connected at 230,400 bps.
21	CONNECT 460800	FOMA terminal and PC connected at 460,800 bps.

- When n=1 is set for the ATV<n> command (☞P. 40), result codes are displayed as text (default setting). When set to n=0, they are displayed as numerical values.
- Communication speed is displayed to maintain compatibility with conventional modems connected by RS-232C. However, since the FOMA terminal is connected to the PC using FOMA USB Cable with Charge Function 02 (sold separately) or Bluetooth function, the displayed speed will differ from the actual speed of connection.
- When [RESTRICTION] (Number: 100) appears, the communication network is congested. Try connecting again later.

Communication protocol result codes

Numerical display	Text display	Meaning
1	PPPoverUD	Connected with 64K data communication
5	PACKET	Connected with packet communication

Result code display examples

When ATX0 is set

The CONNECT display appears only when connection is completed, regardless of the AT¥V<n> command (☞P. 41) setting.

Text display example:　　　ATD∗99∗∗∗1#
　　　　　　　　　　　　CONNECT
Numerical display example: ATD∗99∗∗∗1#
　　　　　　　　　　　　1

When ATX1 is set

● **When ATX1 and AT¥V0 are set (initial value)**

When connection is completed, CONNECT <speed between FOMA terminal and PC> appears in the syntax.

Text display example:　　　ATD∗99∗∗∗1#
　　　　　　　　　　　　CONNECT 460800
Numerical display example: ATD∗99∗∗∗1#
　　　　　　　　　　　　1 21

● **When ATX1 and AT¥V1 are set***

When connection is completed, the information below appears in the syntax.

CONNECT <speed between FOMA terminal and PC> PACKET <host (APN)>/<maximum uplink speed (FOMA terminal to mobile network base station)>/<maximum downlink speed (mobile network base station to FOMA terminal)>

Text display example:　　　ATD∗99∗∗∗1#
　　　　　　　　　　　　CONNECT 460800 PACKET mopera.ne.jp/5760/7232
　　　　　　　　　　　　(Indicates terminal connected to mopera.ne.jp, at maximum uplink speed of
　　　　　　　　　　　　5,760 kbps and maximum downlink speed of 7,232 kbps)
Numerical display example: ATD∗99∗∗∗1#
　　　　　　　　　　　　1 21 5

* Dial-up connection may not be processed correctly when ATX1 and AT¥V1 are simultaneously set. Using only AT¥V0 is recommended.

Kuten Code List

Use four-digit kuten codes to enter kanji, hiragana, katakana, symbol, and alphanumeric characters.

- Each kuten code corresponds to a particular character.
  Refer to "Inputting Kuten Code" of the user's guide for details.
- If an unregistered kuten code is entered, either a space or nothing will be entered.
- Some entries in the kuten code list may differ from on the screen.

Kuten 1 to 3	Kuten 4th digit 0–9	Kuten 1 to 3	Kuten 4th digit 0–9	Kuten 1 to 3	Kuten 4th digit 0–9

[This page is a full kuten code reference chart listing kanji, hiragana, katakana, symbol, and alphanumeric characters arranged by four-digit kuten codes (rows 010 through 240), with columns for the 4th digit 0 through 9.]

1

Panel 1

Kuten	0	1	2	3	4	5	6	7	8	9
241	肩	見	謙	賢	軒	遣	鍵	険	顕	験
242	鹸	元	原	厳	幻	弦	減	源	玄	現
243	絃	舷	言	諺	限					
こ										
243						乎	個	古	呼	固
244	姑	孤	己	庫	弧	戸	故	枯	湖	狐
245	糊	袴	股	胡	菰	虎	誇	跨	鈷	雇
246	顧	鼓	五	互	伍	午	呉	吾	娯	後
247	御	悟	梧	檎	瑚	碁	語	誤	護	醐
248	乞	鯉	交	佼	侯	候	倖	光	公	功
249	効	勾	厚	口	向					
250	后	喉	坑	垢	好	孔	孝	宏	工	巧
251	巷	幸	広	庚	康	弘	恒	慌	抗	拘
252	控	攻	昂	晃	更	杭	校	梗	構	江
253	洪	浩	港	溝	甲	皇	硬	稿	糠	紅
254	紘	絞	綱	耕	考	肯	肱	腔	膏	航
255	荒	行	衡	講	貢	購	郊	酵	鉱	砿
256	鋼	閤	降	項	香	高	鴻	剛	劫	号
257	合	壕	拷	濠	豪	轟	麹	克	刻	告
258	国	穀	酷	鵠	黒	獄	漉	腰	甑	忽
259	惚	骨	狛	込						
260	此	頃	今	困	坤	墾	婚	恨	懇	昏
261	昆	根	梱	混	痕	紺	艮	魂		
さ										
261									些	
262	佐	叉	唆	嵯	左	差	査	沙	瑳	砂
263	詐	鎖	裟	坐	座	挫	債	催	再	最
264	哉	塞	妻	宰	彩	才	採	栽	歳	済
265	災	采	犀	砕	砦	祭	斎	細	菜	裁
266	載	際	剤	在	材	罪	財	冴	坂	阪
267	堺	榊	肴	咲	崎	埼	碕	鷺	作	削
268	咋	搾	昨	朔	柵	窄	策	索	錯	桜
269	鮭	笹	匙	冊	刷					
270	札	殺	薩	雑	皐	鯖	捌	錆	鮫	皿
271	晒	三	傘	参	山	惨	撒	散	桟	燦
272	珊	産	算	纂	蚕	讃	賛	酸	餐	斬
273	暫	残								
し										
273			仕	仔	伺	使	刺	司	史	嗣
274	四	士	始	姉	姿	子	屍	市	師	志
275	思	指	支	孜	斯	施	旨	枝	止	死
276	氏	獅	祉	私	糸	紙	紫	肢	脂	至
277	視	詞	詩	試	誌	諮	資	賜	雌	飼
278	歯	事	似	侍	児	字	寺	慈	持	時
279	次	滋	治	爾	璽	痔	磁	示	而	耳
280	自	蒔	辞	汐	鹿	式	識	鴫	竺	軸
281	宍	雫	七	叱	執	失	嫉	室	悉	湿
282	漆	疾	質	実	蔀	篠	偲	柴	芝	屡
283	蕊	縞	舎	写	射	捨	赦	斜	煮	社
284	紗	者	謝	車	遮	蛇	邪	借	勺	尺
285	杓	灼	爵	酌	釈	錫	若	寂	弱	惹
286	主	取	守	手	朱	殊	狩	珠	種	腫
287	趣	酒	首	儒	受	呪	寿	授	樹	綬
288	需	囚	収	周	宗	就	州	修	愁	拾
289	洲	秀	秋	終	繍	習	臭	舟	蒐	衆
290	襲	讐	蹴	輯	週	酋	酬	集	醜	什
291	住	充	十	従	戎	柔	汁	渋	獣	縦
292	重	銃	叔	夙	宿	淑	祝	縮	粛	塾
293	熟	出	術	述	俊	峻	春	瞬	竣	舜
294	駿	准	循	旬	楯	殉	淳	準	潤	盾
295	純	巡	遵	醇	順	処	初	所	暑	曙
296	渚	庶	緒	署	書	薯	藷	諸	助	叙
297	女	序	徐	恕	鋤	除	傷	償	勝	匠
298	升	召	哨	商	唱	嘗	奨	妾	娼	宵
299	将	小	少	尚	庄	床	廠	彰	承	抄
300	招	掌	捷	昇	昌	昭	晶	松	梢	樟
301	樵	沼	消	渉	湘	焼	焦	照	症	省
302	硝	礁	祥	称	章	笑	粧	紹	肖	菖
303	蒋	蕉	衝	裳	訟	証	詔	詳	象	賞
304	醤	鉦	鍾	鐘	障	鞘	上	丈	丞	乗
305	冗	剰	城	場	壌	嬢	常	情	擾	条
306	杖	浄	状	畳	穣	蒸	譲	醸	錠	嘱
307	埴	飾	拭	植	殖	燭	織	職	色	触
308	食	蝕	辱	尻	伸	信	侵	唇	娠	寝

Panel 2

Kuten	0	1	2	3	4	5	6	7	8	9
309	審	心	慎	振	新	晋	森	榛	浸	深
310	申	疹	真	神	秦	紳	臣	芯	薪	親
311	診	身	辛	進	針	震	人	仁	刃	塵
312	壬	尋	甚	尽	腎	訊	迅	陣	靭	
す										
313						笥	諏			
315	須	酢	図	厨	逗	吹	垂	帥	推	水
316	炊	睡	粋	翠	衰	遂	酔	錐	錘	随
317	瑞	髄	崇	嵩	数	枢	趨	雛	据	杉
318	椙	菅	頗	雀	裾	澄	摺	寸		
せ										
320	世	瀬	畝	是	凄	制	勢	姓	征	性
321	成	政	整	星	晴	棲	栖	正	清	牲
322	生	盛	精	聖	声	製	西	誠	誓	請
323	逝	醒	青	静	斉	税	脆	隻	席	惜
324	戚	斥	昔	析	石	積	籍	績	脊	責
325	赤	跡	蹟	碩	切	拙	接	摂	折	設
326	窃	節	説	雪	絶	舌	蝉	仙	先	千
327	占	宣	専	尖	川	戦	扇	撰	栓	栴
328	泉	浅	洗	染	潜	煎	煽	旋	穿	箭
329	線	繊	羨	腺	舛	船	薦	詮	賤	践
330	選	遷	銭	銑	閃	鮮	前	善	漸	然
331	全	禅	繕	膳	糎					
そ										
332			噌	塑	岨	措	曾	曽	楚	狙
333	疏	疎	礎	祖	租	粗	素	組	蘇	訴
334	阻	遡	鼠	僧	創	双	叢	倉	喪	壮
335	奏	爽	宋	層	匝	惣	想	捜	掃	挿
336	掻	操	早	曹	巣	槍	槽	漕	燥	争
337	痩	相	窓	糟	総	綜	聡	草	荘	葬
338	蒼	藻	装	走	送	遭	鎗	霜	騒	像
339	増	憎	臓	蔵	贈	造	促	側	則	即
340	息	捉	束	測	足	速	俗	属	賊	族
341	続	卒	袖	其	揃	存	孫	尊	損	村
342	遜									
た										
342		他	多	太	汰	詑	唾	堕	妥	惰
343	打	柁	舵	楕	陀	駄	騨	体	堆	対
344	耐	岱	帯	待	怠	態	戴	替	泰	滞
345	胎	腿	苔	袋	貸	退	逮	隊	黛	鯛
346	代	台	大	第	醍	題	鷹	滝	瀧	卓
347	啄	宅	托	択	拓	沢	濯	琢	託	鐸
348	濁	諾	茸	凧	蛸	只				
349	叩	但	達	辰	奪	脱	巽	竪	辿	棚
350	谷	狸	鱈	樽	誰	丹	単	嘆	坦	担
351	探	旦	歎	淡	湛	炭	短	端	箪	綻
352	耽	胆	蛋	誕	鍛	団	壇	弾	断	暖
353	檀	段	男	談						
ち										
354	値	知	地	弛	恥	智	池	痴	稚	置
355	致	蜘	遅	馳	築	畜	竹	筑	蓄	逐
356	秩	窒	茶	嫡	着	中	仲	宙	忠	抽
357	昼	柱	注	虫	衷	註	酎	鋳	駐	樗
358	瀦	猪	苧	著	貯	丁	兆	凋	喋	寵
359	帖	帳	庁	弔	張	彫	徴	懲	挑	暢
360	朝	潮	牒	町	眺	聴	脹	腸	蝶	調
361	諜	超	跳	銚	長	頂	鳥	勅	捗	直
362	朕	沈	珍	賃	鎮	陳				
つ										
363	津	墜	椎	槌	追	鎚	痛	通	塚	栂
364	掴	槻	佃	漬	柘	辻	蔦	綴	鍔	椿
365	潰	坪	壷	嬬	紬	爪	吊	釣	鶴	
て										
366	亭	低	停	偵	剃	貞	呈	堤	定	帝
367	底	庭	廷	弟	悌	抵	挺	提	梯	汀
368	碇	禎	程	締	艇	訂	諦	蹄	逓	
369	遉									

Panel 3

Kuten	0	1	2	3	4	5	6	7	8	9
370	邸	鄭	釘	鼎	泥	摘	擢	敵	滴	的
371	笛	適	鏑	溺	哲	徹	撤	轍	迭	鉄
372	典	填	天	展	店	添	纏	甜	貼	転
373	顛	点	伝	殿	澱	田	電			
と										
373								兎	吐	
374	堵	塗	妬	屠	徒	斗	杜	渡	登	菟
375	賭	途	都	鍍	砥	砺	努	度	土	奴
376	怒	倒	党	冬	凍	刀	唐	塔	塘	套
377	宕	島	嶋	悼	投	搭	東	桃	梼	棟
378	盗	淘	湯	涛	灯	燈	当	痘	祷	等
379	答	筒	糖	統	到	董	蕩	藤	討	謄
380	豆	踏	逃	透	鐙	陶	頭	騰	闘	働
381	動	同	堂	導	憧	撞	洞	瞳	童	胴
382	萄	道	銅	峠	鴇	匿	得	徳	涜	特
383	督	禿	篤	毒	独	読	栃	橡	凸	突
384	椴	届	鳶	苫	寅	酉	瀞	噸	屯	惇
385	敦	沌	豚	遁	頓	呑	曇	鈍		
な										
386	奈	那	内	乍	凪	薙				
386							謎	灘	捺	鍋
387	楢	馴	縄	畷	南	楠	軟	難	汝	
に										
388	二	尼	弐	迩	匂	賑	肉			
389	虹	廿	日	乳	入					
390	如	尿	韮	任	妊	忍	認			
ぬ〜の										
390								濡	禰	
391	祢	寧	葱	猫	熱	年	念	捻	撚	燃
392	粘	乃	廼	之	埜	嚢	悩	濃	納	能
393	脳	膿	農	覗	蚤					
は										
393						巴	把	播	覇	杷
394	波	派	琶	破	婆	罵	芭	馬	俳	廃
395	拝	排	敗	杯	盃	牌	背	肺	輩	配
396	倍	培	媒	梅	楳	煤	狽	買	売	賠
397	陪	這	蝿	秤	矧	萩	伯	剥	博	拍
398	柏	泊	白	箔	粕	舶	薄	迫	曝	漠
399	爆	縛	莫	駁	麦					
400	函	箱	硲	箸	肇	筈	櫨	幡	肌	畑
401	畠	八	鉢	溌	発	醗	髪	伐	罰	抜
402	筏	閥	鳩	噺	塙	蛤	隼	伴	判	半
403	反	叛	帆	搬	斑	板	氾	汎	版	犯
404	班	畔	繁	般	藩	販	範	釆	煩	頒
405	飯	挽	晩	番	盤	磐	蕃	蛮		
ひ										
405									匪	卑
406	否	妃	庇	彼	悲	扉	批	披	斐	比
407	泌	疲	皮	碑	秘	緋	罷	肥	被	誹
408	費	避	非	飛	樋	簸	備	尾	微	枇
409	毘	琵	眉	美	鼻	柊	稗	匹	疋	髭
410	彦	膝	菱	肘	弼	必	畢	筆	逼	桧
411	姫	媛	紐	百	謬	俵	彪	標	氷	漂
412	瓢	票	表	評	豹	廟	描	病	秒	苗
413	錨	鋲	蒜	蛭	鰭	品	彬	斌	浜	瀕
414	貧	賓	頻	敏	瓶					
ふ										
415			不	付	埠	夫	婦	富	冨	布
416	府	怖	扶	敷	斧	普	浮	父	符	腐
417	膚	芙	譜	負	賦	赴	阜	附	侮	撫
418	武	舞	葡	蕪	部	封	楓	風	葺	蕗
419	伏	副	復	幅	服	福	腹	複	覆	淵
420	弗	払	沸	仏	物	鮒	分	吻	噴	墳
421	憤	扮	焚	奮	粉	糞	紛	雰	文	聞
へ										
422							丙	併	兵	塀
423	幣	平	弊	柄	並	蔽	閉	陛	米	頁
424	僻	壁	癖	碧	別	瞥	蔑	箆	偏	変
425	片	篇	編	辺	返	遍	便	勉	娩	弁
426	鞭									

Column block 1

ほ
Kuten	0	1	2	3	4	5	6	7	8	9
426		保	舗	鋪	圃	俌	戊	步	畆	甫	補
427	輔	穂	募	墓	慕	戊	暮	母	簿	菩	倣
428	俸	包	呆	報	奉	宝	峰	峯	崩	庖	
429	抱	捧	放	方	朋	法	泡	烹	砲	縫	
430	胞	芳	萌	蓬	蜂	褒	訪	豊	邦	鋒	
431	飽	鳳	鵬	乏	亡	傍	剖	坊	妨	帽	
432	忘	忙	房	暴	望	某	棒	冒	紡	肪	
433	膨	謀	貌	貿	鉾	防	吠	頬	北	僕	
434	卜	墨	撲	朴	牧	睦	穆	釦	勃	没	
435	殆	堀	幌	奔	本	翻	凡	盆			

ま
436				摩	磨	魔	麻	埋	妹		
436	昧	枚	毎	哩	槙	幕	膜	枕	鮪	柾	
437	鱒	桝	亦	俣	又	抹	末	沫	迄	侭	
438	繭	麿	万	慢	満	漫	蔓				

み
| 440 | | | 味 | 未 | 魅 | 巳 | 箕 | 岬 | 密 | | |
| 441 | 蜜 | 湊 | 蓑 | 稔 | 脈 | 妙 | 粍 | 民 | 眠 | | |

む
| 441 | | | | | | | | | | | 務 |
| 442 | 夢 | 無 | 牟 | 矛 | 霧 | 鵡 | 椋 | 婿 | 娘 | | |

め
442										冥	
443	名	命	明	盟	迷	銘	鳴	姪	牝	滅	
444	免	棉	綿	緬	面	麺					

も
444						摸	模	茂	妄	孟	
445	毛	猛	盲	網	耗	蒙	儲	木	黙	目	
446	杢	勿	餅	尤	戻	籾	貰	問	悶	紋	
447	門	匁									

や
447			也	冶	夜	爺	耶	野	弥	矢	
448	厄	役	約	薬	訳	躍	靖	柳	薮		
449	鑓										

ゆ
449	愉	愈	油	癒							
450	諭	輸	唯	佑	優	勇	友	宥	幽	悠	
451	憂	揖	有	柚	湧	涌	猶	猷	由	祐	
452	裕	誘	遊	邑	郵	雄	融	夕			

よ
452									予		
453	余	与	誉	輿	預	傭	幼	妖	容	庸	
454	揚	揺	擁	曜	楊	様	洋	溶	熔	用	
455	窯	羊	耀	葉	蓉	要	謡	踊	遥	淀	
456	陽	養	慾	抑	欲	沃	浴	翼			

ら
456										羅	
457	螺	裸	来	莱	頼	雷	洛	絡	落	酪	
458	乱	卵	嵐	欄	濫	藍	蘭	覧			

り
458									利	吏	
459	履	李	梨	理	璃	痢	裏	裡	里	離	
460	陸	律	率	立	葎	掠	略	劉	流	溜	
461	琉	留	硫	粒	隆	竜	龍	侶	慮	旅	
462	虜	了	亮	僚	両	凌	寮	料	梁	涼	
463	猟	療	瞭	稜	糧	良	諒	遼	量	陵	
464	領	力	緑	倫	厘	林	淋	燐	琳	臨	
465	輪	隣	鱗	麟							

る～れ
466			瑠	塁	涙	累	類	令	伶	例	冷
467	励	嶺	怜	玲	礼	苓	鈴	隷	零	霊	麗
468	齢	暦	歴	列	劣	烈	裂	廉	恋	憐	
469	漣	煉	簾	練	聯						
470	蓮	連	錬								

ろ
470					呂	魯	櫓	炉	賂	路	露
471	労	婁	廊	弄	朗	楼	榔	浪	漏	牢	狼
472	篭	老	聾	蝋	郎	六	麓	禄	肋	録	論
473	肋										

わ
| 473 | | | | | | | 倭 | 和 | 話 | 歪 | 賄 |
| | | | | | | | | | | 脇 | 惑 |

Column block 2

Kuten	0	1	2	3	4	5	6	7	8	9
474	枠	鷲	亙	亘	鰐	詫	藁	蕨	椀	湾
475	碗	腕								
480	弌	丐	丕	个	丱	丶	丼	丿	乂	乖
481	乘	亂	亅	豫	亊	舒	弍	于	亞	亟
482	亰	亢	亰	亳	亶	从	仍	仄	仆	仂
483	仗	仞	仭	仟	价	伉	佚	估	佛	佝
484	佗	佇	佶	侈	侏	侘	佻	佩	佰	侑
485	佯	來	侖	儘	俔	俟	俎	俘	俛	俑
486	俚	俐	俤	俥	倚	倨	倔	倪	倥	倅
487	伜	俶	倡	倩	倬	俾	俯	們	倆	偃
488	假	會	偕	偐	偈	做	偖	偬	偸	傀
489	傚	傅	傴	傲						
490	僉	僊	傳	僂	僖	僞	僥	僭	僣	僮
491	價	僵	儉	儁	儂	儖	儕	儔	儚	儡
492	儺	儷	儼	儻	儿	兀	兒	兌	兔	兢
493	竸	兩	兪	兮	冀	冂	囘	册	冉	冏
494	冑	冓	冕	冖	冤	冦	冢	冩	冪	冫
495	决	冱	冲	冰	况	冽	凅	凉	凛	几
496	處	凩	凭	凰	凵	凾	刄	刋	刔	刎
497	刧	刪	刮	刳	刹	剏	剄	剋	剌	剞
498	剔	剪	剴	剩	剳	剿	剽	劍	劔	劒
499	剱	劈	劑	辨	辧	劬	劭	劼	劵	勁
500	勍	勗	勞	勣	勦	飭	勠	勳	勵	勸
501	勹	匆	匈	甸	匍	匐	匏	匕	匚	匣
502	匯	匱	匳	匸	區	卆	卅	丗	卉	卍
503	凖	卞	卩	卮	夘	卻	卷	厂	厖	厠
504	厦	厥	厮	厰	厶	參	簒	雙	叟	曼
505	燮	叮	叨	叭	叺	吁	吽	呀	听	吭
506	吼	吮	吶	吩	吝	呎	咏	呵	咎	呟
507	呱	呷	呰	咒	呻	咀	呶	咄	咐	咆
508	哇	咢	咸	咥	咬	哄	哈	咨	咫	哂
509	咤	咾	咼	哘	哥	哦	唏	唔	哽	哮
510	哭	哺	哢	唹	啀	啣	啌	售	啜	啅
511	啖	啗	唸	唳	啝	喙	喀	咯	喊	喟
512	啻	啾	喘	喞	單	啼	喃	喩	喇	喨
513	嗚	嗅	嗇	嗟	嗄	嗜	嗤	嗔	嘔	嗷
514	嘖	嗾	嗽	嘛	嘴	嘶	嘲	嘸	噫	噤
515	嘯	噬	噪	嚆	嚀	嚊	嚠	嚔	嚏	嚥
516	嚮	嚶	嚴	囂	嚼	囁	囃	囀	囈	囎
517	囑	囓	囗	囮	囹	圀	囿	圄	圉	圈
518	國	圍	圓	團	圖	嗇	圜	圦	圷	圸
519	坎	圻	址	坏	坩	埀	垈	坡	坿	垉
520	垓	垠	垳	垤	垪	垰	埃	埆	埔	埒
521	埓	堊	埖	埣	堋	堙	堝	塲	堡	塢
522	塋	塰	毀	塒	堽	塹	墅	墹	墟	墫
523	墺	壞	墻	墸	墮	壅	壓	壑	壗	壙
524	壘	壥	壜	壤	壟	壯	壺	壹	壻	壼
525	壽	夂	夊	夐	夛	梦	夥	夬	夭	夲
526	夸	夾	竒	奕	奐	奎	奚	奘	奢	奠
527	奧	奬	奩	奸	妁	妝	佞	侫	妣	妲
528	姆	姨	姜	妍	姙	姚	娥	娟	娑	娜
529	娉	娚	婀	婬	婉	娵	娶	婢	婪	媚
530	媼	媾	嫋	嫂	媽	嫣	嫗	嫦	嫩	嫖
531	嫺	嫻	嬌	嬋	嬖	嬲	嫐	嬪	嬶	嬾
532	孃	孅	孀	孑	孕	孚	孛	孥	孩	孰
533	孳	孵	學	斈	孺	宀	它	宦	宸	寃
534	寇	寉	寔	寐	寤	實	寢	寞	寥	寫
535	寰	寶	寳	尅	將	專	對	尓	尠	尢
536	尨	尸	尹	屁	屆	屎	屓	屐	屏	孱
537	屬	屮	乢	屶	屹	岌	岑	岔	妛	岫
538	岻	岶	岼	岷	峅	岾	峇	峙	峩	峽
539	峺	峭	嶌	峪	崋	崕	崗	嵜	崟	崛
540	崑	崔	崢	崚	崙	崘	嵌	嵒	嵎	嵋
541	嵬	嵳	嵶	嶇	嶄	嶂	嶢	嶝	嶬	嶮
542	嶽	嶐	嶷	嶼	巉	巍	巓	巒	巖	巛
543	巫	已	巵	帋	帚	帙	帑	帛	帶	帷
544	幄	幃	幀	幎	幗	幔	幟	幢	幤	幇
545	幵	并	幺	麼	广	庠	廁	廂	廈	廐
546	廏	廖	廣	廝	廚	廛	廢	廡	廨	廩
547	廬	廱	廳	廰	廴	廸	廾	弃	弉	彝

Column block 3

Kuten	0	1	2	3	4	5	6	7	8	9
548	彜	弋	弑	弖	弩	弭	弸	彁	彈	彎
549	弯	彑	彖	彗	彙	彡	彭			
550	彳	彷	徃	徂	彿	徊	很	徑	徇	從
551	徙	徘	徠	徨	徭	徼	忖	忻	忤	忸
552	忱	忝	悳	忿	怡	恠	怙	怐	怩	怎
553	怱	怛	怕	怫	怦	怏	怺	恚	恁	恪
554	恷	恟	恊	恆	恍	恣	恃	恤	恂	恬
555	恫	恙	悁	悍	惧	悃	悚	悄	悛	悖
556	悗	悒	悧	悋	惡	悸	惠	惓	悴	忰
557	悽	惆	悵	惘	慍	愕	愆	惶	惷	愀
558	惴	惺	愃	愡	惻	惱	愍	愎	慇	愾
559	愨	愧	慊	愿	愼	愬	愴	愽	慂	慄
560	慳	慷	慘	慙	慚	慫	慴	慯	慥	慱
561	慟	慝	慓	慵	憙	憖	憇	憬	憔	憚
562	憊	憑	憫	憮	懌	懊	應	懷	懈	懃
563	懆	憺	懋	罹	懍	懦	懣	懶	懺	懴
564	懿	懽	懼	懾	戀	戈	戉	戍	戌	戔
565	戛	戞	戡	截	戮	戰	戲	戳	扁	扎
566	扞	扣	扛	扠	扨	扼	抂	抉	找	抒
567	抓	抖	拔	抃	抔	拗	拑	抻	拏	拿
568	拆	擔	拈	拜	拌	拊	拂	拇	抛	拉
569	挌	拮	拱	挧	挂	挈	拯	拵	捐	挾
570	捍	搜	捏	掖	掎	掀	掫	捶	掣	掏
571	掉	掟	掵	捫	捩	掾	揩	揀	揆	揣
572	揉	插	揶	揄	搖	搴	搆	搓	搦	搶
573	攝	搗	搨	搏	摧	摯	摶	摎	攪	撕
574	撓	撥	撩	撈	撼	據	擒	擅	擇	撻
575	擘	擂	擱	擧	舉	擠	擡	抬	擣	擯
576	攬	擶	擴	擲	擺	攀	擽	攘	攜	攅
577	攤	攣	攫	攴	攵	攷	收	攸	畋	效
578	敖	敕	敍	敘	敞	敝	敲	數	斂	斃
579	變	斌	斎	斐	斛	斟	斫	斷	旃	旆
580	旁	旄	旌	旒	旛	旙	无	旡	旱	杲
581	昊	昃	旻	杳	昵	昶	昴	昜	晏	晄
582	晉	晁	晞	晝	晤	晧	晨	晟	晢	晰
583	暃	暈	暎	暉	暄	暘	暝	曁	暹	曉
584	暾	暼	曄	暸	曖	曚	曠	昿	曦	曩
585	曰	曵	曷	朏	朖	朞	朦	朧	霸	朮
586	朿	朶	杁	朸	朷	杆	杞	杠	杙	杣
587	杤	枉	杰	枩	杼	杪	枌	枋	枦	枡
588	枅	枷	柯	枴	柬	枳	柩	枸	柤	柞
589	柝	柢	柮	枹	柎	柆	柧	檜	栞	框
590	栩	桀	桍	栲	桎	梳	栫	桙	档	桷
591	桿	梟	梏	梭	梔	條	梛	梃	檮	梵
592	梠	梺	椏	梍	桾	椁	棊	椈	棘	椢
593	椦	棡	椌	棍	棔	棧	棕	椶	椒	椄
594	棗	棣	椥	棹	棠	棯	椨	椪	椚	椣
595	椡	棆	楹	楷	楜	楸	楫	楔	楾	楮
596	椹	楴	椽	楙	椰	楡	楞	楝	榁	楪
597	榲	榮	槐	榿	槁	槓	榾	槎	寨	槊
598	槝	榻	槃	榧	樮	榑	榠	榜	榕	榴
599	槞	槡	樔	槍	槇	槧	樅	榱	樞	槭
600	樔	槫	樊	樒	櫁	樣	樓	橄	樌	橲
601	樶	橸	橇	橢	橙	橦	橈	樸	樢	檐
602	檍	檠	檄	檢	檣	檗	蘗	檻	櫃	櫂
603	檸	檳	檬	櫞	櫑	櫟	檪	櫚	櫪	櫻
604	欅	蘖	櫺	欒	欖	鬱	欟	欸	欷	盜
605	欹	飮	歇	歃	歉	歐	歙	歔	歛	歟
606	歡	歸	歹	歿	殀	殄	殃	殍	殘	殕
607	殞	殤	殪	殫	殯	殲	殱	殳	殷	殼
608	毆	毋	毓	毟	毬	毫	毳	毯	麾	氈
609	氓	气	氛	氤	氣	汞	汕	汢	汪	沂
610	沍	沚	沁	沛	汾	汨	汳	沒	沐	泄
611	泱	泓	沽	泗	泅	泝	沮	沱	沾	沺
612	泛	泯	泙	泪	洟	衍	洶	洫	洽	洸
613	洙	洵	洳	洒	洌	浣	涓	浤	浚	浹
614	浙	涎	涕	濤	涅	淹	渕	渊	涵	淇
615	淦	涸	淆	淬	淞	淌	淨	淒	淅	淺
616	淙	淤	淕	淪	淮	渭	湮	渮	渙	湲
617	湟	渾	渣	湫	渫	湶	湍	渟	湃	渺
618	湎	渤	滿	渝	游	溂	溪	溘	滉	溷
619	滇	滄	溥	滓	溽	溯	滄	溲	滔	滕
620	溏	溥	滂	溟	潁	漑	灌	滬	滸	滾
621	漿	滲	漱	滯	漲	滌				

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Kuten 1 to 3	Kuten 4th digit 0 1 2 3 4 5 6 7 8 9	Kuten 1 to 3	Kuten 4th digit 0 1 2 3 4 5 6 7 8 9	Kuten 1 to 3	Kuten 4th digit 0 1 2 3 4 5 6 7 8 9
622	浚浹浙涎涕涛涸淹渕渊	695	綷縡縱縒縛縟縉縋縢繆繞	768	跟踉跫踝踞踐踟蹂踵踰踴蹊
623	涵淇淦涸淆淬淞淌淨淒	696	繦縻縵縵纃緻纂纈纉繼繻纊	769	蹇蹉蹌蹐蹈蹙蹤蹠踪
624	淅淺淙淤淕淪淮渭湮渮	697	纓纔纖纎纛纜缸缺罅罌	770	蹣蹕蹶蹲蹼躁躇躅躄躋
625	渙湲湟渾渣湫渫湶湍渟	698	罍罎罐网罕罔罘罟罠罨	771	躊躓躑躔躙躪躡躬躰軆
626	湃渺湎渤滿渝游溂溪溘	699	罩罧罸羂羆羃羈羇羌羔	772	躱躾軅軈軋軛軣軼軻軫
627	滉溷滓溽溯滄溲滔滕溏	700	罌罍罎罐网罕罔罘罟罠	773	軫軾輊輅輕輒輙輓輜輟
628	溥滂溟潁漑灌滬滸滾漿	701	羶羝羚羣羯羲羹羮羶羸	774	輛輌輦輳輻輹轅轂輾轌
629	滲漱滯漲滌漾漓滷澆潺	702	譱翅翆翊翕翔翡翦翩翳翹	775	轉轆轎轗轜轢轣轤辜辟
630	潸澁澀潯潛濳潭澂潼潘	703	飜耆耄耋耒耘耙耜耡耨	776	辣辭辯辷迚迥迢迪迯邇
631	澎澑濂潦澳澣澡澤澹濆	704	耿耻聊聆聒聘聚聟聢聨	777	迴逅迹迺逑逕逡逍逞逖
632	澪濟濕濬濔濘濱濮濛瀉	705	聳聲聰聶聹聽聿肄肆肅	778	逋逧逶逵逹迸遏遐遑遒
633	瀋濺瀑瀁瀏濾瀛瀚潴瀝	706	肛肓肚肭冐肬胛胥胙胝	779	逎遉逾遖遘遞遨遯遶隨
634	瀘瀟瀰瀾瀲灑灣炙炒炯	707	胾脉胯胱脛脩脣脯腋	780	遲邂遽邁邀邊邉邏邨邯
635	烱炬炸炳炮烟烋烝烙焉	708	隋腆脾腓腑胼腱腮腥腦	781	邱邵郢郤扈郛鄂鄒鄙鄲
636	烽焜焙煥煕熈煦煢煌煖	709	腴膃膈膊膀膂膠膕膤膣	782	鄰酊酖酘酣酥酩酳酲醋
637	煬熏燻熄熕熨熬燗熹熾	710	腟膓膩膰膵膾膸膽臀臂	783	醉醂醢醫醯醪醵醴醺釀
638	燒燉燔燎燠燬燧燵燼燿	711	膺臉臍臑臙臘臈臚臟臠	784	釁釉釋釐釖釟釡釛釼釵
639	爍爐爛爨爭爬爰爲爻爼	712	臧臺臻臾舁舂舅與舊舍	785	釶鈞釿鈔鈬鈕鈑鉞鉗
640	爿牀牆牋牘牴牾犂犁犇	713	舐舖舩舫舸舳艀艙艘艝	786	鉅鉉鉤鉈銕鈿鉋鉐銜銖
641	犒犖犢犧犹犲狃狆狄狎	714	艚艟艤艨艪艫舮艱艷艸	787	銓銛鉚鋏銹銷�鋩
642	狒狢狠狡狹狷倏猗猊猜	715	艾芍芒芫芟芻芬苡苣苟	788	錏鋺鍄錮錙錐錢錚錣錺
643	猖猝猴猯猩猥猾獎獏默	716	苒苴苳苺莓范苻苹苗莅	789	錵錻鍜鍠鍼鍮鍖鎰鎬鎭
644	獗獪獨獰獸獵獻獺珈玳	717	莇莊荼莵荳荵莠莉莨菴	790	鎔鎮鎹鏖鏗鏨鏥鏘鏃
645	珎玻珀珥珮珞璢琅瑯琥	718	萓菎菽萃菘萋菁菷萇菠	791	鏝鏐鏈鏤鐚鐔鐓鐃鐇鐐
646	珸琲琺瑕琿瑟瑙瑁瑜瑩	719	菲萍萢萠莽萸蔆菻葭萪	792	鐶鐫鐵鐡鐺鑁鑒鑄鑛鑠
647	瑰瑣瑪瑶瑾璋璞璧瓊瓏	720	萼蕚蒄葷葫蒭葮蒂葩葆	793	鑢鑞鑪鈩鑰鑵鑷鑽鑚鑼
648	瓔珱瓠瓣瓧瓩瓮瓲瓰瓱	721	萬葯葹萵蓊葢蒹蒿蒟蓙	794	鑾钁鑿閂閇閊閔閖閘閙
649	瓸瓷甄甃甅甌甎甍甕甓	722	蓍蒻蓚蓐蓁蓆蓖蒡蔡蓿	795	閠閨閧閭閵閻閹閾闊濶
650	甞甦甬甼畄畍畊畉畛畆	723	蓴蔗蔘蔬蔟蔕蔔蓼蕀蕣	796	闃闍闌闕闔闖關闡闥闢
651	畚畩畤畧畫畭畸當疆疇	724	蕘蕈蕁蘂蕋蕕薀薤薈薑	797	阡阨阮阯陂陌陏陋陷陜
652	畴疊疉疂疔疚疝疥疣痂	725	薊薨蕭薔薛藪薇薜蕷蕾	798	陞陝陟陦陲陬隍隘隕隗
653	疳痃疵疽疸疼疱痍痊痒	726	薐藉薺藏薹藐藕藝藥藜	799	險隧隱隲隰隴隶隸隹雎
654	痙痣痞痾痿痼瘁痰痺痲	727	藹蘊蘓蘋藾藺蘆蘢蘚蘰	800	雋雉雍襍雜霍雕雹霄霆
655	痳瘋瘍瘉瘟瘧瘠瘡瘢瘤	728	蘿虍乕虔號虧虱蚓蚣蚩	801	霈霓霎霑霏霖霙霤霪霰
656	瘴瘰瘻癇癈癆癜癘癡癢	729	蚪蚋蚌蚶蚯蛄蛆蚰蛉蠣	802	霹霽霾靄靆靈靂靉靜靠
657	癨癩癪癧癬癰癲癶癸發	730	蚫蛔蛞蛩蛬蛟蛛蛯蜒蜆	803	靤靦靨勒靫靱靹鞅靼鞁
658	皀皃皈皋皎皖皓皙皚皰	731	蜈蜀蜃蛻蜑蜉蜍蛹蜊蜴	804	靺鞆鞋鞏鞐鞜鞨鞦鞣鞳
659	皴皸皹皺盂盍盖盒盞盡	732	蜿蜷蜻蜥蜩蜚蝠蝟蝸蝌	805	鞴韃韆韈韋韜韭齏韲竟
660	盥盧盪蘯盻眈眇眄眩眤	733	蝎蝴蝗蝨蝮蝙蝓蝣蝪蠅	806	韶韵頏頌頸頤頡頷頽顆
661	眞眥眦眛眷眸睇睚睨睫	734	螢螟螂螯蟋螽蟀蟐雖螫	807	顏顋顫顓顰顱顴顳颪颯
662	睛睥睿睾睹瞎瞋瞑瞠瞞	735	蟄螳蟇蟆螻蟯蟲蟠蠏蠍	808	颱颶飄飃飆飩飫餃餉餒
663	瞰瞶瞹瞿瞼瞽瞻矇矍矗	736	蟾蟶蟷蠎蟒蠑蠖蠕蠢蠡	809	餔餘餡餝餚餛餡餬餮餽
664	矚矜矣矮矼砌砒礦砠礪	737	蠧蠱蠶蠹蠧蠻衄衂衒衙	810	餾饂饉饅饐饋饑饒饌饕
665	硅碎硴碆硼碚碌碣碵碪	738	衞衢衫袁衾袞衵衽袵衲	811	馗馘馥馭馮馼駟駛駝駘
666	碯磑磆磋磔碾碼磅磊磬	739	袂袗袒袮袙袢袍袤袰袿	812	駑駭駮駱駲駻駸騁騏騅
667	磧磚磽磴礇礒礑礙礬礫	740	袱裃裄裔裘裙裝裹褂裼	813	駢騙騫騷驅驂驀驃騾驕
668	祀祠祗祟祚祕祓祺祿禊	741	裴裨裲褄褌褊褓襃褞褥	814	驍驛驗驟驢驥驤驩驫驪
669	禝禧齋禪禮禳禹禺秉秕	742	褪褫襁襄褻褶褸襆褜襌	815	骭骰骼髀髏髑髓體髞髟
670	秧秬秡秣稈稍稘稙稠稟	743	褚襠襞襦襤襭襪襯襴襷	816	髢髣髦髯髫髮髴髱髷髻
671	禀稱稻稾稷穃穗穉穡穢	744	襾覃覈覊覓覘覡覩覦覯覬	817	鬆鬘鬚鬟鬢鬣鬥鬧鬨鬩
672	穩龝穰穹穽窈窗窕窘窖	745	覲覺覽覿觀觚觚觜觥觫	818	鬪鬮鬯鬲魄魃魏魍魎魑
673	窩竈窰窶竅竄窿邃竇竊	746	觴觸訃訖訐訌訛訝訥訶	819	魘魴鮓鮃鮑鮖鮗鮟鮠鮨
674	竍竏竕竓站竚竝竡竢竦	747	詁詛詒詆詈詼詭詬詢誅	820	鮴鯀鯊鮹鯆鯏鯑鯒鯣鯢
675	竭竰笂笏笊笆笳笘笙笞	748	誂誄誨誡誑誥誦誚誣諄	821	鯤鯔鯡鰺鯲鯱鯰鰕鰔鰉
676	笵笨笶筐筺笄筍笋筌筅	749	諍諂諚諫諳諧諤諱謔諠	822	鰓鰌鰆鰈鰒鰊鰄鰮鰛鰥
677	筵筥筴筧筰筱筬筮箝箘	750	諢諤諱謖謐謗謠謳鞫謦	823	鰤鰡鰰鱇鰲鱆鰾鱚鱠鱧
678	箟箍箜箚箋箒箏筝箙篋	751	謫謾謨譁譌譏譎證譖譛	824	鱶鱸鳧鳬鳰鴉鴈鳫鴃鴆
679	篁篌篏箴篆篝篩簑簔篦	752	譚譫譟譬譯譴譽讀讌讎	825	鴪鴦鶯鴣鴟鵄鴕鴒鵁鴿
680	篥籠簀簇簓篳篷簗簍篶	753	讒讓讖讙讚谺豁谿豈豌	826	鴾鵆鵈鵝鵞鵤鵑鵐鵙鵲
681	簣簧簪簟簷簫簽籌籃籔	754	豎豐豕豢豬豸豺貂貉貅	827	鶉鶇鶫鵯鵺鶚鶤鶩鶲鷄
682	籏籀籐籞籤籖籥籬籵粃	755	貊貍貎貔豼貘戝貭貪貽	828	鷁鶻鶸鶺鷆鷏鷂鷙鷓鷸
683	粐粤粭粢粫粡粨粳粲粱	756	貲貳貮貶賈賁賤賣賚賽	829	鷦鷭鷯鷽鸚鸛鸞鹵鹹鹽
684	粮粹粽糀糅糂糘糒糜糢	757	賺賻贄贅贊贇贏贍贐齎	830	麁麈麋麌麒麕麑麝麥麩
685	鬻糯糲糴糶糺紆紂紜紕	758	贓賍贔贖赧赭赱赳趁趙	831	麸麪麭靡黌黎黏黐黔黜
686	紊絅絋紮紲紿紵絆絳絖	759	跂趾趺跏跚跖跌跛跋跪	832	點黝黠黥黨黯黴黶黷黹黻
687	絎絲絨絮絏絣經綉絛綏	760	跫跟跣跼踈踉跿踝踞踐	833	黼黽鼇鼈皷鼕鼡鼬鼾齊
688	絽綛綺綮綣綵緇綽綫總	761	踟蹂踵踰踴蹊蹇蹉蹌蹐	834	齒齔齣齟齠齡齦齧齬齪
689	綢綯緜綸綟綰緘緝緤緞	762	蹈蹙蹤蹠踪蹣蹕蹶蹲蹼	835	齷齲齶龕龜龠堯槇遙瑤凜
690	緻緲緡縅縊縣縡縒縱縟	763	躁躇躅躄躋躊躓躑躔躙	836	熙
691	縉縋縢繆繦縻縵縵纃纈	764	躪躡躬躰軆軅軈軋軛軣	837	
692	纉繼繻纊纓纔纖纎纛纜	765	軼軻軫軾輊輅輕輒輙輓	838	
693	缸缺罅罌罍罎罐网罕罔	766	輜輟輛輌輦輳輻輹轅轂	839	
694	罘罟罠罨罩罧罸羂羆羃	767	輾轌轉轆轎轗轜轢轣轤	840	

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