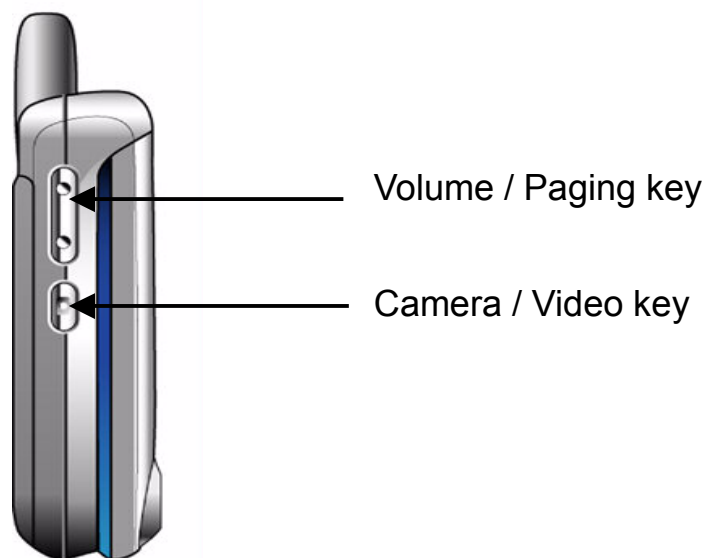
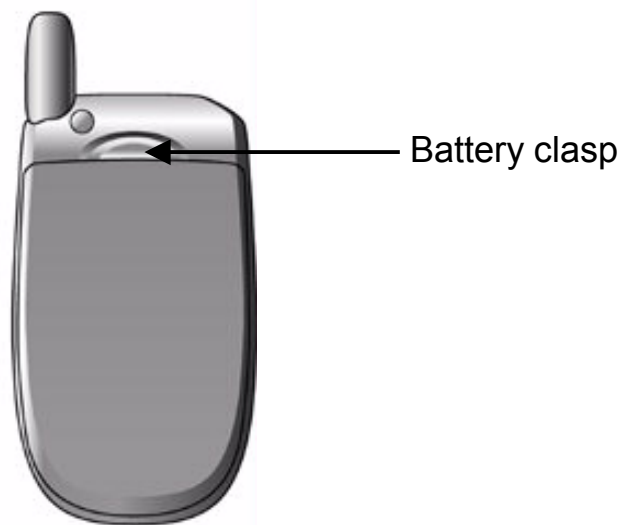


# Your M520 Mobile Phone





# Contents

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<b>PREFACE</b> .....	<b>1</b>
■ SAR.....	1
■ DECLARATION OF CONFORMITY .....	3
■ GENERAL SAFETY .....	3
■ VEHICLE SAFETY .....	4
■ EMERGENCY CALLS .....	4
■ CARE AND MAINTENANCE.....	4
■ AC/DC ADAPTOR CHARGER.....	5
■ USING BATTERY.....	5
■ PC DATA CABLE.....	6
■ YOUR RESPONSIBILITY .....	6
■ SECURITY CODE .....	6
■ DISPOSING OF WASTE PACKAGING .....	7
<b>USING THIS GUIDE</b> .....	<b>8</b>
■ KEYS .....	8
■ MAIN MENU .....	10
■ DISPLAY ICONS.....	11
<b>GETTING STARTED</b> .....	<b>13</b>

■ SIM CARD .....	13
■ TURN ON/OFF YOUR PHONE .....	13
■ MAIN SCREEN .....	14
■ MAKE A CALL .....	14
■ RECEIVING A CALL .....	15
■ DURING A CALL .....	15
<b>PHONE BOOK .....</b>	<b>17</b>
■ GROUP SETTING .....	17
■ ADD A NEW CONTACT .....	18
■ COPY CONTACT INFORMATION .....	18
■ DELETE CONTACTS .....	19
■ SEARCH A CONTACT .....	20
■ CHECK MEMORY STATUS .....	20
■ ADD A PORTRAIT .....	20
■ MY NUMBER .....	20
<b>MESSAGE .....</b>	<b>21</b>
■ SMS AND MMS .....	21
■ RECEIVE A MESSAGE .....	21
■ WRITE A MESSAGE .....	22
■ READ A MESSAGE .....	24

■ OUTBOX .....	25
■ SENT .....	25
■ DRAFTS.....	25
■ MY FOLDER .....	26
■ SETTINGS .....	26
<b>SETTINGS.....</b>	<b>29</b>
■ LANGUAGE .....	29
■ DISPLAY .....	29
■ TIME AND DATE .....	30
■ ANSWER OPTION .....	30
■ AUTO REDIAL.....	30
■ NETWORK SERVICE.....	30
<b>PROFILE .....</b>	<b>34</b>
■ AVAILABLE PROFILES .....	34
■ CUSTOMIZATION .....	35
<b>AMUSEMENT.....</b>	<b>36</b>
■ PICTURE.....	36
■ SOUND.....	37
■ VIDEO .....	38
■ JAVA .....	38

■ MEMORY STATUS .....	38
<b>TOOLS .....</b>	<b>39</b>
■ ALARM .....	39
■ SCHEDULE .....	39
■ CALENDAR .....	40
■ ANNIVERSARY .....	40
■ CALCULATOR .....	41
■ WORLD TIME .....	41
■ AUTO ON/OFF .....	41
■ CURRENCY EXCHANGE .....	41
■ PC TOOL .....	42
<b>GAME .....</b>	<b>43</b>
■ PUSH CHEST .....	43
■ GOPHER .....	43
■ TETRIS .....	43
■ HUARONG DAO .....	44
■ LIGHT UP .....	44
■ GAME AUDIO .....	44
<b>WEB BROWSER .....</b>	<b>45</b>
■ HOMEPAGE .....	45

■ ENTER ADDRESS .....	45
■ BOOKMARKS .....	45
■ HISTORY .....	46
■ SETTINGS .....	46
■ PUSH INBOX.....	47
■ WHEN ONLINE .....	47
■ DOWNLOAD PICTURE AND AUDIO.....	48
<b>STK .....</b>	<b>49</b>
<b>CAMERA.....</b>	<b>50</b>
■ TAKE A PHOTO .....	50
■ ZOOM.....	50
■ SETUP.....	51
■ IMAGE LIST.....	51
<b>CALL HISTORY .....</b>	<b>52</b>
■ CHECK CALL RECORDS .....	52
■ CALL TIME.....	52
<b>APPENDIX .....</b>	<b>53</b>
■ TROUBLESHOOTING .....	53
■ TEXT INPUT METHOD .....	54

# Preface

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Thank you for choosing Mitsubishi M520 dual-band mobile telephone. This mobile phone is approved to use under any GSM900/1800 networks. Some messages displayed on your phone may be different depending your subscription services and/or service provider.

As with all radio transceivers, this mobile phone emits electromagnetic waves. It complies with international regulations when it is used under normal conditions and in accordance with the safety and guidelines given below.

## ■ SAR

---

THIS M520 PHONE MEETS THE EU REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Before a mobile phone is available for sale to the public, compliance with the European R&TTE directive (1999/5/CE) must be shown. This directive includes as one essential requirement the protection of the health and the safety for the user and any other person.

Your mobile phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the limits for exposure to radiofrequency (RF) energy recommended by The Council of the European Union<sup>1</sup>. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines were developed by independent scientific organisations through periodic and thorough evaluation of scientific studies. The limits include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for mobilephones (CENELEC standard EN 50360: 2000) employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit<sup>2</sup> recommended by The Council of the European Union is 2.0 W/kg. Tests for SAR have been conducted using standard operating positions (with reference to CENELEC standard EN 50361: 2000) with the phone transmitting at its highest certified power level in all tested frequency bands<sup>3</sup>. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below

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<sup>1</sup> European recommendation 1999/519/CE

<sup>2</sup> The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of tissue. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

<sup>3</sup> The maximum level of GSM emitted power is 250mW at 900 MHz and 125 mW at 1800 MHz according to the GSM standard.



the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a base station antenna, the lower the power output. The highest SAR value for your M520 mobile phone when tested was 0,745W/kg. Even though there may be differences of SAR value for different handsets or using at different locations, they all meet the EU requirements for RF exposure.

Additional information from the World Health Organization (WHO)

**Individuals:** Present scientific information does not indicate the need for any special precautions for use of mobile phones. If individuals are concerned, they might choose to limit their own or their children's' RF exposure by limiting the length of calls, or using "hands-free" devices to keep mobile phones away from the head and body.

**RF absorbing devices:** Scientific evidence does not indicate any need for RF-absorbing covers or other "absorbing devices" on mobile phones. They cannot be justified on health grounds and the effectiveness of many such devices in reducing RF exposure is unproven.

Source: WHO Fact Sheet 193, June 2000.

WHO: [www.who.int/peh-emf](http://www.who.int/peh-emf).

There are a number of independent sources of information available to users including:

*Royal Society of Canada:* [www.rsc.ca](http://www.rsc.ca)

The International Commission on Non-Ionizing Radiation Protection (ICNIRP): [www.icnirp.de](http://www.icnirp.de)

*The US Food and Drug Administration:* [www.fda.gov/cellphones/](http://www.fda.gov/cellphones/)

*The World Health Organization:* [www.who.int/emf](http://www.who.int/emf)

Melco Mobile Communications Europe S.A. belongs to the MMF, an international association of radio equipment manufacturers.

The MMF produces information such as this in accordance with its purpose of developing and presenting industry positions to independent research organisations, government and other research bodies.

Mobile Manufacturers Forum  
Diamant Building, 80 Blvd. A. Reyers  
B-1030 Brussels Belgium  
[www.mmfai.org](http://www.mmfai.org)

## ■ Declaration of conformity

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Hereby, Melco Mobile Communications Europe S.A., declares that this M520 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

You can find a copy of the full Declaration of Conformity on our website: <http://www.mitsubishi-telecom.com>.

## ■ General safety

---

As with all types of radio transceivers, this mobile telephone emits electromagnetic waves and complies with international regulations when it is used under normal conditions and in accordance with the safety and warning advices given below.



Switch off your phone and remove the battery when in an aircraft. Using mobile telephone in an aircraft may cause interference, disrupt the mobile phone network and it is illegal. It may result in the suspension of using your mobile phone or prosecution.



Switch off your phone when at any refueling site or near inflammable materials.



Switch off your phone in hospitals and any other place where medical equipments may be in use.



Respect restriction on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress.



There may be a hazard when using the phone close to inadequately protected personal medical devices such as hearing aids and pacemakers. Consult your doctor or the manufacturers of the medical device before using the phone.



Using your phone close to electronic equipment may cause interference if the equipment is inadequately protected. Read the warning signs or manufacturers recommendations before using the phone.

## ■ Vehicle safety

---


Respect national regulations when using mobile telephones in vehicles. Road safety always comes first! Always give your full attention to driving.

- Use “hands free” car kit while driving if you wish to use your phone, otherwise stop and park your vehicle safely before using your phone. Follow any regulations in your country regarding using mobile devices when driving.
- Use only qualified personnel to install your mobile in a vehicle. Incorrect installation may interfere the vehicle electronics operation, such as ABS anti-lock brakes or air bags.
- Always use a holder. Your phone may fall during sudden braking or collision without a holder.

## ■ Emergency calls

---

In some countries, you can make emergency calls by dialing emergency number in your country without a SIM card. Emergency calls may even be made if the phone is PIN/electronically locked or call barred. Check with your local service provider for more details. In an emergency call, please provide all necessary information. Do not cut off the call until told to do so.

 Mobile phones rely on wireless and landline networks which cannot be guaranteed in all conditions. Do not rely solely on wireless phones for essential emergency communications.

## ■ Care and maintenance

---

This mobile telephone is the product of advanced engineering, design and craftsmanship and should be treated with care.

The suggestions below will help you to enjoy this product for many years.

- Do not expose your phone to any extreme environment with high humidity or temperature.
- Do not expose or store your mobile in cold temperatures. When the phone warms up to its normal temperature after switch on, moisture may form inside and damage the electrical parts.
- Do not attempt to disassemble the phone.
- Keep your phone dry. This phone is not waterproof.
- Do not drop, knock or violently shake your phone. Rough handling may damage it.
- Clean your phone only with a soft, slightly dampened cloth. Using strong chemicals or solvents may cause damage.

Do not place the telephone alongside computer discs, credit / travel cards or other magnetic media. The information contained on discs or cards may be affected.

- Use only supplied or approved accessories. Using unauthorized third party equipments or accessories will invalidate the warranty and cause safety risks.
- Do not remove the stickers on the package. It contains important information for after sales service and customer support purposes
- Contact an authorized service centre if help is needed.

**Caution:** Must place your SIM card in the place out of reach from child. If it's swallowed by accident, call for medical helps immediately.

## ■ AC/DC adapter charger

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The M520 mobile phone is designed to be used solely with the AC/DC charger supplied with this mobile. Using other chargers or AC adapter can be hazardous. Damage resulting from such usage will not be covered by our warranty.

## ■ Using battery

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The battery attached in M520 package is Li-ion charge-able battery. It should be used only with Mitsubishi MS-0002 or MS-0003 charger.

This battery can be charged hundreds of times but gradually wear out. When the operating time (stand-by and talk time) is noticeably shorter than normal, it is time to buy a new battery (model: MS-0001).

- Overcharging shortens battery life. Disconnect the power after the battery is fully charged.
- Do not leave the charger connected to the power supply when not necessary.
- Do not expose battery to high temperature or humidity.
- Do not dispose of batteries in fire. They may explode.
- Avoid putting the battery into contact with metal objects that can short circuit the battery terminals (e.g. keys, paper clips, coins, etc.).
- Do not drop or subject the battery to strong physical shocks.
- Do not try to disassemble the battery.
- Use only the recommended battery chargers( MS-0002/MS-0003).
- If the battery terminals become soiled, clean them with a soft and dry cloth.
- Battery may warm up during charging.

**Caution:** Dispose of the used battery in compliance with national environmental regulations. If you have any questions, consult with environmental protection administration. Do not dispose of your batteries within household waste.

## ■ PC data cable

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The PC data cable is used to connect your mobile telephone to a Personal Computer in order to exchange data. This mobile phone package may not include this data cable. Contact your local distributors to purchase the cable.

## ■ Your responsibility

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Please handle this mobile phone with care and in respect of local regulations. Please keep it in a safe place at all times and out of reach from children. In order to avoid unauthorized usage, follow the security setting in this manual. If your phone and/or SIM card are lost or stolen, call your service provider immediately to terminate the line and prevent illegal usage.

When your phone is not in use, turn off the phone and remove the battery.

## ■ Security code

---

The phone and SIM card are delivered to you pre-programmed with codes that protect it against unauthorized use. Please refer to the topic **Security settings** under chapter **Settings** for details.

### **PIN and PIN2 codes (4-8 digits)**

All SIM cards come with a PIN (Personal Identity Number). It protects the card against unauthorized use.

Entering the wrong PIN code three times disables the SIM card and the message **SIM Blocked. Enter PUK:** is then displayed. Enter PUK code to unblock the SIM card.

### **PUK and PUK2 codes (8 digits)**

Please ask your service provider for your PUK code. Use it to unblock a SIM card.

### **Call barring password (4 digits)**

This password is used to bar various types of calls with your phone (please refer to *Settings* on page31).

## **Phonelock code (4 digits)**

This code is set to 0000 on delivery. You can change it. Take note that once the lock code is changed, manufacturer will not be able to identify it anymore.

It is advised that you remember these codes and make yourself familiar with their usage. Please refer to Security on page 33 for more details.

## **■ Disposing of waste packaging**

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The packaging used for this phone is made of recyclable materials and as such should be disposed of in accordance with your country's national legislation on the protection of the environment.

Please separate the cardboard and plastic elements and dispose them in the correct manner.

# Using This Guide

## ■ Keys

To help you quickly familiarize yourself with your phone, these are the descriptions of keypad and side key symbols used throughout the guide. Please refer to the Your M520 Mobile Phone section for key locations.

Keypad	Usage and description
<b>On/Off, End key</b>	<ul style="list-style-type: none"> <li>• Long press to turn the phone on or off.</li> <li>• Short press to end the current activity and return to standby screen.</li> </ul>
<b>Left softkey</b>	<ul style="list-style-type: none"> <li>• Make selection of the functions showed in left bottom of the main screen. Usually press it to go to submenu and select available options.</li> <li>• When in standby status, press to enter <i>Call History</i>.</li> <li>• Press to switch the input method when in input mode.</li> </ul>
<b>Right softkey</b>	<ul style="list-style-type: none"> <li>• Make selection of the functions showed in right bottom of the main screen. Usually press it to go back to previous menu.</li> <li>• When in standby status, press to enter <i>Messages</i>.</li> </ul>
<b>Call/Send key</b>	<ul style="list-style-type: none"> <li>• Press to dial phone number entered.</li> <li>• Press to receive the incoming call.</li> <li>• When in standby status, press to enter <i>Dialed Call List</i>.</li> </ul>
<b>Navigation key</b>	up <ul style="list-style-type: none"> <li>• Move upward.</li> <li>• When in standby status, press to enter P</li> </ul>
	down <ul style="list-style-type: none"> <li>• Move downward.</li> <li>• When in standby status, press to enter <i>Alarm</i>.</li> </ul>
	left <ul style="list-style-type: none"> <li>• Move leftward.</li> <li>• When in standby status, press to enter <i>Phone Book</i>.</li> <li>• In Phone book, press to go to previous page.</li> </ul>

	<p>right</p> <ul style="list-style-type: none"> <li>• Move rightward.</li> <li>• When in standby status, press to enter <i>Game</i>.</li> <li>• In Phone book, press to go to next page.</li> </ul>
<b>OK key</b>	<ul style="list-style-type: none"> <li>• To confirm the selection.</li> <li>• When in standby status, short press to enter <i>Main Menu</i>.</li> <li>• When in standby status, long press to enter <i>WAP</i>.</li> </ul>
<b>Camera/Video key</b>	<ul style="list-style-type: none"> <li>• When in standby status, press to open the camera lens and press again to take the photo.</li> </ul>
<b>Volume/Paging key</b>	<ul style="list-style-type: none"> <li>• When the clamshell is closed, long press to switch the clock display.</li> <li>• When in a call, press to adjust the microphone volume.</li> <li>• When in main menu, press to move display pages forward or backward.</li> <li>• When using camera, press to adjust focusing.</li> <li>• Press to switch input method when in input mode.</li> <li>• When in standby status, press to adjust keypad volume (no vibrator in use).</li> </ul>
<b>* key</b>	<ul style="list-style-type: none"> <li>• When entering the calling number, press to input the pause.</li> <li>• When editing texts, press to input symbols.</li> </ul>
<b># key</b>	<ul style="list-style-type: none"> <li>• When broadcasting short messages, long press to input delimiter.</li> <li>• When editing texts, press to switch among input methods.</li> <li>• When in standby status, long press to switch enable or disable vibrator mode.</li> </ul>











## ■ Main Menu



In standby status, press OK key to go to Main Menu.















⚠ The menu for STK depends on the SIM card used in the mobile phone.






You can select followings from Main Menu.

Icon	Function
	<b>Phone book:</b> stores your contacts and their phone numbers.
	<b>Profile:</b> choose different profiles that you can use choose to use different ringtone, alert modes in different situations.
	<b>Game:</b> choose your preferred games from Push chest, Gopher, Tetris, Huarong dao and Light up.
	<b>Message:</b> manage your messages.
	<b>Amusement:</b> manage your videos, pictures, sounds and Java applications.
	<b>Web Browser:</b> WAP browser for internet access.
	<b>Settings:</b> configure and personalize your mobile phone.
	<b>Tools:</b> choose various useful tools, e.g. Calendar, Calculator, etc.
	<b>STK:</b> only available if supported by SIM card. Different SIM cards could have different services.

## ■ Display icons

This icon list below will help you to understand the icons used in your M520.

Icon	Description
	<b>Signal strength indicator:</b> the more bars, the stronger reception signals.
	<b>Battery indicator:</b> it is permanently displayed to show the current battery level. If the icon is empty, you need to charge your battery now.
	<b>Alarm clock:</b> displayed when you set your alarm clock.
	<b>Unread message(s):</b> it is displayed when you have new or unread messages.
	<b>Message full (phone):</b> it is displayed when your phone inbox is full.
	<b>Message full (SIM):</b> it is displayed when your SIM card inbox is full.
	<b>Call diverting:</b> it indicates that all incoming calls are being diverted.
	<b>Ring (standard) alert:</b> it indicates the standard ring alert is on.
	<b>Vibrator alert:</b> it indicates the vibrator alert is on.
	<b>Auto answer:</b> it indicates the auto answer mode is on.
	<b>Earphone alert:</b> it indicates the earphone alert is on.
	<b>Loudness alert:</b> it indicates the loudness alert is on.
	<b>Meeting alert:</b> it indicates the meeting alert mode is on.
	<b>Manner mode:</b> it indicates the manner mode is on.

	<p><b>GPRS:</b> it indicates a GPRS is connected.</p>
	<p><b>GPRS available:</b> it indicates the GPRS service is available.</p>
	<p><b>Message memory full:</b> it displayed when both message memories in mobile phone and SIM card are full.</p>
	<p><b>In a call:</b> it indicates a call is in progress.</p>
	<p><b>Unanswered call:</b> it is displayed when you have missed incoming call(s).</p>

# Getting Started

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## ■ SIM card

---

SIM card (subscriber identity module) contains the phone numbers and detailed information of available services. It also can store phone numbers and personal information.

- ⚠ • Place the SIM card in the place out of reach from children.
- SIM card and its contactor are easy to be bent or damaged. Take extra care when you insert or remove the SIM card.
- Don't expose SIM card to dust, water and static electricity.
- Turn the mobile phone off and remove the battery before install the SIM card.

Follow the following steps to insert your SIM card.

1. Hold the mobile phone with its cover face downwards.
2. Push the battery clasp and the battery cover will pop up.
3. Uplift the battery with your thumb and remove the battery.
4. Insert the SIM card into the slot. Make sure the metallic surface of the SIM card face downwards. Take note of the cutty corner to make sure the SIM card is inserted correctly into the slot.
5. Insert the battery with its metal contactor downwards.

- 💡 If SIM card doesn't work correctly, contact the service center or your service provider for help.

## ■ Turn on/off your phone

---

Press and hold the on/off key 2~3 seconds to turn on your mobile phone. If your SIM card is PIN protected, the mobile phone will prompt you to enter PIN code. You will be notified if the phone is unable to locate a SIM card in the phone.

- 💡 For the setting of PIN code, refer to **Security Setting**. If PIN code is correct, the phone shall register itself automatically to network.

When in standby status, press and hold the On/Off key 2~3 seconds to turn off the phone. A melody sounds at mobile phone deactivation while the screen displays respective animation.

## ■ Main screen


---



This is your main screen after you turn your phone on. You can choose your preferred picture as the background.

## ■ Make a call

---

When you are in a servicing area (your signal indicator  will be showing uprisping bars), you can do followings and press Call/Send key to make the call:

- Using keypad to enter the telephone number.
- Dial through quick key.
- Quick dial by entering the address number from SIM card phone book.
- Choose the number from phone book.
- When reading messages.
- Choose the number from *Call History*.

### **Making an international call**

Press and hold “0” key until “+” is displayed. Then enter the country code, area code, phone number and press Call/Send key to make an international call.

### **Dialing extension number or voice mail box directly**

Insert a pause (displayed as symbol P) in the telephone number will make the phone pause after the line is connected and wait for the response. By doing this, M520 allows you to call an extension number or to a voice mail box directly. To insert the pause, press and hold + key until “P” is displayed.

### **Making an emergency call**

One or more emergency numbers have been pre-set as emergency phone numbers in your phone. Please refer to **Emergency Call** on page 4 for more details about making an emergency call.


### **Quick dial from phone book**

While you can make a call by choosing the phone number from the phone book (either from SIM card or the phone itself), you can also make a quick dial by entering the address number of your SIM card phone book. After entering the

address number and # key, your desired telephone number will displayed and press Call/Send key to make the call. "Invalid address" will be showed if you entered a wrong address number.

### **Quick dial**

Users are allowed to set up to 9 quick dial numbers in the phone book. In standby status, press and hold an alphanumeric key to dial the correspondent quick dial number automatically. In the phone book list, choose Menu and editing your settings.

 Press and hold 1 key to dial by voice.

## **■ Receiving a call**


---

When you have an incoming call, a preset ring tone or vibration will alert you on the call. Press Left softkey or Call/Send key to accept the call. If you have set Flip Open Pickup, you can accept the call by open the clamshell. If you have set Any Key Pickup, you can accept the call by press any key other than On/Off End key or the right softkey. If you are using an earpiece, you can talk to the caller through the earpiece.

## **■ During a call**

---

When you are in a call, press left softkey to enter call in progress menu. The functions include: phone conference, message, hold, mute enable etc.

 This function depends on your service provider. Check with your provider for more details.

### **Mute**

Enable the Mute will make your voice silent during a call. Disable it when you would like the caller to hear your voice.


### **Hold**

While in conversation, choose to put a call on hold will allow you to dial another number or receive another call without terminating your existing connection. Press left softkey and select **Switch** to switch between the two active calls.

### **Message**

By selecting Message will allow you to send or check your short messages while you are in a call.

### **Phone conference**

 Please check with your service provide to make sure your mobile network supports phone conference.

Using this feature to allow up to maximum 5 parties talking together at the same time.

1. Make a call to one party first.
2. Hold the call and call another party.
3. Press left softkey to select *Add* to add the current party to the conference.
4. To add more members, repeat the above procedure.
5. If you like to add an incoming call to the conference, hold the existing conference call and pick up the incoming line. Then press left softkey and select *Add* to add the new caller to the conference.

To remove a member from conference:

1. When a phone conference is in progress, press left softkey and select *Remove*.
2. Select the member you want to remove from the conference by name or phone number.
3. Press left softkey to select *Remove* to remove the selected member and return to phone conference.
4. You still can talk to the removed caller separately while put the phone conference on hold. Or you can hang up the call from removed caller and join the phone conference again. If you wish to add the removed caller back to the conference, press Left softkey and select *Add* to add the caller to the conference again.

# Phone Book



In phone book, you can store your contact's personal information, such as name, phone number, email address, etc. It is easier to identify the caller or recipients by using names instead of their phone number. You can also add a personal ringtone to a contact. By creating contact group, it even allows you to send messages to many recipients at the same time.

You can store the information to either SIM card or the phone itself. However if you choose to store in the SIM card, you may store only the name and number depending on the type of your SIM card. Phone book of phone itself can store more personal information, but you need to copy to SIM card if you need to transfer the data to a new mobile phone.



In the Main menu, choose Phone Book.

**Names:** store personal information of your contacts

**My Number:** store you own information

## ■ Group setting



You can categorize the contacts into different groups. M520 provides following groups: family, friend, VIP, colleague, others and SIM card. Different icons are adopted to represent different groups. Under the phone book list, press left softkey to select Group setting. You can choose different ringtones and backlights for different groups to help you identify them when receiving an incoming call.



## ■ Add a new contact



1. In Phone Book menu, select Menu and then choose Add.
2. By using navigation keys to choose the information you like to edit.
3. Press OK key to edit the information.
4. Press OK key again to save the information.

Followings are the functions available in submenu when adding a new contact.

Function	Description
<b>Edit</b>	Edit or modify the selected information line of the contact.
<b>Call</b>	Call the contact directly.
<b>Send</b>	Send SMS or MMS to the contact.
<b>Delete</b>	Delete the contact.
<b>Copy</b>	Copy the information of the contact from mobile phone to SIM card or vice versa.
<b>Portrait</b>	Select a picture for this contact. The portrait will be displayed when there is a call from this contact.
<b>Group</b>	Select the group this contact belongs to. Different icons represent different groups.

## ■ Copy contact information

You can copy the information of contacts between SIM card and mobile phone. Under phone book list, press left softkey and select either Copy all or Multi-copy.

### Copy All



You can copy all the contacts information from SIM card to mobile phone or vice versa. Please make sure your SIM Card and mobile phone has enough memory spaces to do this.

## Multi-Copy

You can also choose to only copy several records at one time from mobile phone to SIM card or vice versa. Take note that the types of information that can be copied to SIM card will depend on the type of your SIM card.



After you selected copy from either Phone to SIM card or SIM card to phone, a phone list will be displayed. Press Left softkey to select the contacts you would like to copy and press OK key to confirm. Please make sure there is enough memory in your SIM card or phone.

⚠ Maximum 30 records can be copied at one time.

## ■ Delete contacts

You can choose either Delete All or make Multiple Deletion if you wish to delete your contacts.

### Delete All



When in Phone Book list, select Menu and then choose Delete All function. You can choose to delete all records stored in SIM card or Phone or both at the same time.

### Multi-Delete



When choose to do multiple deletion, you will be able to browse all contact records. Press Left softkey to select the records you would like to delete. Press OK key to confirm. To be safe, the screen will display a message and request your confirmation to delete these records. Press OK key to confirm or Right softkey to cancel.

⚠ Maximum 30 records can be copied at one time.


## ■ Search a contact

---



You can search your contact by Name, Number, Memo or Group.

In Phone Book list, select Menu and then choose Find. Choose the method you like to search your contact.

 If you choose to search by Number, the phone will try to match the last 11 digits.

## ■ Check Memory Status

---

You can check the available memory status for your phone books in either phone or SIM card. In Phone Book list, select Menu and then choose Memory Status. The status report will display the available memory you have.

## ■ Add a portrait

---

You can add a portrait to your contact in the phone book. Please refer to the Camera section regarding how to take a portrait photo.

Select the contact you would like to add a portrait. Press Left softkey to select Portrait from the submenu. Press OK key to associate the portrait with the contact after selecting the portrait from the list.

If you have a portrait associated with your contact, the portrait will display when you have an incoming call from this contact.

## ■ My number

---

You can key in your own telephone numbers in this phone.

1. Select My Number in Phone Book menu.
2. Enter the name and number, press OK key to confirm.

# Message

---



Under Message, you can manage your SMS (short messages) and MMS (multimedia messages).

## ■ SMS and MMS

---

SMS (Short messages) usually are in text format.

MMS (Multimedia messages) can contain texts, picture and sound. M520 supports multi-page MMS. You can create a slide show with maximum 20 frames. MMS usually is an additional service that you need to subscribe from your mobile network provider. Check with your provider to find out more details. Both sender and recipient needs to enable MMS feature in order to send and read MMS.


You can use following formats in your MMS:




<b>Images:</b>	GIF, JPMG, BMP and WBMP
<b>Sound:</b>	MIDI, WAV
<b>Text:</b>	TXT

⚠ M520 is able to store maximum 200 MMS. When exceed the maximum capacity, you will not be able to receive MMS correctly.

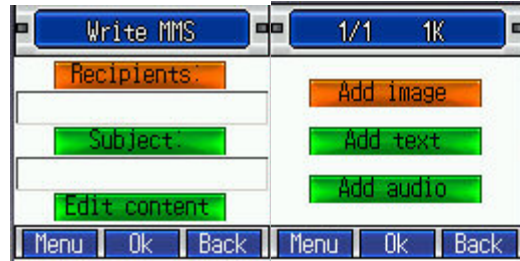
## ■ Receive a message

---

When you received a new message,  will appear to remind you that you got a new message. This icon will remain on the screen until you read all your new and unread messages.

When  (SIM) or  (Phone) appear, the respective memory is full. If both memories are full,  will appear. You will not be able to receive any SMS until you delete some existing short messages from the memory. When you exceed maximum MMS capacity, you will not be able to receive MMS correctly.

## ■ Write a message




In standby status, press Right softkey to go to Message. Select New and choose the type of message you are writing: SMS or MMS.

Menu	SMS	MMS	Description
<b>Recipients</b>	√	√	<p>Select Recipients to display phone book list. Use navigation keys to select contacts you need. Press OK key to confirm. Or press Left softkey to search contact you need.</p> <p>You can also move cursor downwards to the blank text box and enter the recipients' phone number directly. Use ; to enter multiple recipients' number.</p> <p>⚠ You can select maximum 5 recipients.</p>
<b>Quick Text</b>	√		<p>Quick Text is pre-saved frequent use message. M520 can save up to 20 quick texts. Those pre-defined quick texts from Mitsubishi could not be deleted.</p> <p>You can manage your quick texts under My Folder. Please refer to page 26 for more details.</p> <p>Select the desired quick text to add it into your message. Move the cursor do the text box below Quick Text and write your own message.</p> <p>Please refer to Appendix C for more details on Text Input Method.</p> <p>⚠ When you write your message, you can only choose from existing quick texts. If you need to add your own quick text, please refer to My Folder on page 26.</p>
<b>Subject</b>		√	<p>Move the cursor to the text box below Subject and enter the subject of this message.</p>

<b>Edit Content</b>		√	<p>You can Add Image, Text or Audio into existing slide frame.</p> <p><b>Image:</b> Choose from Pictures, Photos and Portraits.</p> <p><b>Text:</b> Edit your message in editing box.</p> <p><b>Audio:</b> Choose from the available audio list.</p> <p>Press Left softkey to go to Menu for more options:</p> <p><b>New page:</b> To add a new slide frame to existing show.</p> <p><b>Delete page:</b> To delete the current page.</p> <p><b>Prev page:</b> Go to previous page.</p> <p><b>Next page:</b> Go to next page.</p> <p><b>Page timer:</b> Set the showing duration for current page.</p> <p><b>Swap text &amp; image:</b> Change the position of image and text in current page.</p>
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After you complete your message, press Left softkey to:

Menu	SMS	MMS	Description
<b>Send</b>	√	√	Send the message to the recipients entered. If it's failed, the message will be stored in Outbox and you can resend it later.
<b>Save</b>	√	√	Save the message to Draft Box for editing/sending in the future.
<b>Save as quick text</b>	√		Save the message to Quick Text list.
<b>Preview</b>		√	To preview the MMS you created.
<b>Detail information</b>		√	It will display your MMS' details, e.g. size, subject, recipients, date, time, etc.

 You will receive a notification after your message is sent successfully. However it doesn't mean your message is reached your recipients. Check with your messaging service center for more details.

## ■ Read a message

All messages received will be stored in Inbox. Different type of messages will be indicated by using different icons. Select a message and press OK key to read it. You can also to read a message by press Left softkey and choose Read.

When you are reading a message, you can choose following options by press Left softkey:

Menu	SMS	MMS	Description
<b>Play</b>		√	Choose to play the multimedia message received.
<b>Reply SMS</b>	√	√	Choose to write a short message and reply to the sender.
<b>Reply MMS</b>	√	√	Choose to write a multi-media message and reply to the sender.
<b>Forward</b>	√	√	Forward this message to other recipient(s).
<b>Delete</b>	√	√	Delete this message.
<b>Cut number</b>	√	√	Save the phone number of sender to either Phone or SIM card Phone Book.
<b>Copy to SIM (Phone)</b>	√		Copy the short message to SIM card (or Phone).
<b>Save as quick text</b>	√		Save the short message received to Quick Text list.
<b>Move to my folder</b>	√	√	Move the message to My Folder. At the same time, the message in Inbox will be removed.

When playing a MMS, press Left softkey to have following options:

- Previous Page**      Go to the previous page of the MMS.
- Next Page**        Go to next page
- Rewind**            Replay the entire MMS
- Play**                Continue to play current MMS
- Save image as**    Save the received image to "Picture" (under "Amusement") or "Wall Paper" (under "Setting").

**Save audio as** Save the received audio to “Sound” (under “Amusement”).

If you would like to delete message(s) from Inbox, press Left softkey and choose either “Delete” to delete the highlighted message or “Delete All” to delete all messages inside Inbox.

## ■ Outbox

---

All unsuccessful sent messages are stored in Outbox. You can choose followings from the menu:

**Read** - To read the selected message. You can also save the audio or image file from MMS if you wish.

**Delete** - Delete this unsent message

**Delete All** - Delete all messages in Outbox.

Please refer to *Read a message* on page 24 for options you can use when you are reading a message from Outbox. The additional option you can choose is **Edit**. You can re-edit the message again before resending it.

## ■ Sent


---

All short messages that successfully sent out will be stored in Sent. If Auto Save is enabled for MMS, successfully sent MMS will be automatically saved in Sent as well. Like Outbox, you can choose to **Read**, **Delete** or **Delete All** after select the Menu by press Left softkey.

When you are reading a message in Sent, you can choose Menu to:

**Forward** - Forward the message to other recipients. You can edit this message as necessary before sending it out.

**Delete** - Delete the message.

 In order to keep enough memory space in your M520, please to empty messages in Sent regularly. If the available memory lower than 150K, you will not be able to Send, Save or Download Multimedia messages (viewing multimedia messages is still allowed).

## ■ Drafts

---

In following situations, your messages will be saved into Drafts automatically.

- You choose Save when you are editing your message.
- There is an incoming call when you are editing your message.
- You press On/Off, End key when you are editing you message.



You can choose options below when you are in Drafts:

**Edit** - To edit the current message for resending purpose.

**Delete** - Delete this unsent message

**Delete All** - Delete all messages in Outbox.

## ■ My Folder

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You can save selected messages in My Folder therefore you can easily access these messages. Please refer to *Read a message* on page 24 for more details.

In My Folder, you can manage your Quick Text. You can choose to:

**Add** - Add a new Quick Text.

**Edit** - Edit the current Quick Text to your own preference.

**Delete** - Delete the current Quick Text.

## ■ Settings

---

You can customize your Message by selecting Setting in Message menu.

### SMS setting

Option	Descriptions
<b>Service center</b>	This is your SMS service center number. Your service provider provides this number. Check with your provider for more information.
<b>Expired period</b>	Sometimes due to different reasons, your message may not be able to send to you recipient immediately, e.g. your recipient doesn't turn on his/her phone. You can choose to keep the SMS in service center temporarily. By choosing this setting, you can set the expiry period for your SMS stored in service center.
<b>Status report</b>	If you turn on this option, you will be receiving a status report regarding your SMS delivery. For example, you will receive a message after your SMS reaches your recipient to confirm the SMS has been delivered successfully.
<b>Preferred storage</b>	You can choose your preferred storage space to either SIM card or your phone. All messages will be saved to the preferred storage first. If it's full, your messages will automatically save to the other one until both memories are full.

## MMS setting

Option	Descriptions
<b><i>Sending setting</i></b>	<p><b>Valid period</b> - This set the period your service center will keep the message if it cannot be delivered to your recipients. This is an optional feature from your service provider. The default valid period is the maximum duration your service center is able to provide.</p> <p><b>Read report</b> - Set this option on will allow you to receive a message after your recipient read your MMS message.</p> <p><b>Delivery report</b> - Set this option on will allow you to receive a message after your service center delivered your MMS to your recipient.</p> <p><b>Priority</b> - You can set your MMS priority to <i>Low, Regular</i> or <i>High</i>.</p> <p><b>Auto save</b> - If you enable this option, your MMS will be saved automatically to Sent after it's delivered.</p>
<b><i>Auto receive</i></b>	If you enable this option, your phone will download your incoming MMS immediately. If it's disabled, you can choose to download your incoming MMS later.
<b><i>MMSC</i></b>	This is your MMS center location. Check with your service provider for the address.
<b><i>Gateway IP</i></b>	Check with your service provider for your Gateway IP.

## Voice Mail

This feature allows you to divert your call to voice mail while you are not available to take incoming calls. You can obtain your voice mail number from your service provider.

Under Voice Mail submenu, you can choose to:

**Edit** - Edit the voice mail number. Make sure you enter the right number.

**Listen** - Listen to your voice mails.

## **Stat. Data**

You can check your memory usage for different type of messages under this option.

# Settings

---



You can customize your phone in Settings. Under this menu, you can set up your browsing language, wallpapers, date, time, security, etc.

In standby status, press OK key to enter Main Menu. Use navigation key to scroll and select Settings. At any time, press OK key to select the option you are going to set up or press Right softkey to go back to previous menu.

## ■ Language

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Select the language you would like your phone to display. M520 supports both Chinese and English. Choose the language and press OK key to select.

## ■ Display

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Under this menu, you can choose to set up Color theme, Keypad light, Wallpaper and LCD contrast for your phone.

### Color theme

There are totally 6 Color Themes in your M520. Mitsubishi has three pre-set themes in the phone: Blue, Green and Purple. You can also customize up to three other Color themes. Move your cursor to User1, User2 or User3, press Left softkey to edit the colors. When you use your navigation key to scroll, your screen will reflect the color theme you are pointing to. It will help you in your decision. Select your preferred color setting by press OK.

### Keypad Light

This is to set the duration of your keypad light. Keypad light will help you to find the correct key in a dark environment. Select the duration you prefer and press OK key to confirm.

## Wallpaper

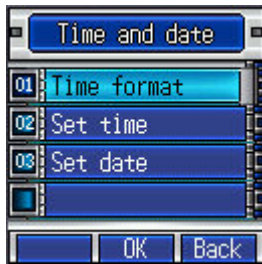
You can choose any images stored in your phone as your Wall Paper. Use navigation keys to scroll the pictures until you find your preferred Wallpaper and press OK key to select.

## LCD contrast

Select either Main LCD or Sub LCD to adjust the contrast for that screen. Use navigation keys to increase or decrease the color

### ■ Time and date

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To set the time and date for your phone, select Time and date from Settings menu. You can firstly choose to use either 24 hours or 12 hours display format by choosing **Time format**. After that enter the time and date by selecting **Set time** and **Set date**. Press OK key to confirm.

### ■ Answer option

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You can choose to answer your incoming calls by following ways:

**Flip open** - Answer a call when you open your clamshell.

**Any key** - Press any key to answer the call except On/Off, End key.

**Send key** - Press Call/Send key to answer a call.

### ■ Auto redial

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Enabling auto redial will allow M520 to redial the number automatically after your call is failed due to engaged line or unavailable signal.

### ■ Network service

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Network services provide you capability to manage your calls. However these features may need support from your service provider. Check with your provider to find out more information.

Option	Descriptions
<b>Call divert</b>	To divert an incoming call when you are unavailable. <b>Divert always-</b> Divert the incoming calls unconditionally.

	 <p>You can choose to divert a call to another number by <i>Edit</i>. You can also divert a call to your preferred <i>Address</i> or <i>Voice mail</i>.</p> <p><b>On busy</b> - Divert the incoming call when you are busy on the other line.</p> <p><b>No reply</b> - Divert the incoming call when you don't pick up the call.</p> <p><b>Unreachable</b> - Divert the incoming call when your phone is off or outside service area.</p> <p><b>Cancel all</b> - To cancel any divert settings.</p>
<p><b>Call barring</b></p>	<p>By setting call barring, you can forbid certain outgoing or incoming calls. You will be required to use a password to set and cancel call barring for security purpose.</p> <p><b>All outgoing</b> - Forbid any outgoing call from this phone. Only incoming calls are allowed.</p> <p><b>Int'l call</b> - Forbid any international outgoing call.</p> <p><b>Int'l EXPHome</b> - Forbid to use this phone abroad.</p> <p><b>All incoming</b> - Forbid any incoming calls.</p> <p><b>In. at abroad</b> - When abroad, forbid any roaming incoming calls.</p> <p><b>Cancel all</b> - Cancel existing settings. Password will be required to do so.</p> <p><b>Change PWD</b> - Change your password.</p> <p> Abroad is not necessary to be overseas. Here it refers to using different GSM network.</p>
<p><b>Call waiting</b></p>	<p>If you enable Call waiting, you will be alert when there is another incoming call when you are already in a call.</p> <p>If you disable Call waiting, the second caller will hear a busy tone when he/she is trying to call you. You will not be alert when there is another incoming call.</p>

<b>Caller ID</b>	<p>This feature needs support from your service provider.</p> <p><b>Default</b> - The default setting from your mobile service provider.</p> <p><b>Hide number</b> - Do not display your own number to recipient when you make a call.</p> <p><b>Send number</b> - Display your number to your recipient when you make a call.</p>
<b>Network setup</b>	<p><b>Select mode</b> – You can choose your network <b>Automatically</b> or <b>Manually</b>. If the setting is Auto, your phone will register itself to the network according to the network list in the phone. If the registration is failed, it will try the next one in the list. If you choose to select your network manually, your phone will search all available networks and list them. You select the network you prefer to use from the list.</p> <p><b>Available NT</b> – Will display all available networks at the moment for you to choose the network you prefer to use.</p> <p><b>Preferred NT</b> – This is a list of networks you prefer. You can add a new preferred network by select Add in the submenu.</p> <p><b>Known network</b> – This is a list contains all networks knows. They may not available to you at the moment.</p>
<b>Ring</b>	<p><b>Alert tone</b>– Enable it to allow the phone send you an alert for following situation:</p> <p style="padding-left: 40px;"><b>Connection:</b> the phone will alert you when an outgoing call is reached the recipient.</p> <p style="padding-left: 40px;"><b>Minutes alert:</b> the phone will alert you on call duration. It will alert 10 seconds before every minute.</p> <p><b>On-off tone</b> – You can set your preferred melody when you turn on or off this phone.</p> <p><b>Earpiece Volume</b> – To adjust your earpiece reception volume. Use up or down navigation key to adjust the volume.</p>
<b>Firewall</b>	<p>Using firewall to select incoming calls.</p> <p><b>Black list</b> – contains up to 10 numbers that you don't want to receive calls from.</p> <p><b>White list</b> – contains up to 20 numbers that you would like to receive calls from.</p> <p><b>Firewall</b> – Choose to enable the Black list or White list. You can set the firewall off if you have no preference in selecting incoming calls.</p>

## Security

Set the security for your phone to prevent unauthorized usage.

**Phone lock** – To lock the phone from any usage. You are required to enter password to unlock the phone. You can choose to *Lock now* or Lock the phone when turn on by choosing *Power on lock*.

**SIM PIN** – To set a PIN number for your SIM card. If you enabled the SIM PIN protection, you need to enter the PIN to unlock your SIM card every time you turn on your phone.

***PIN check:*** Enable it will require your PIN when use this phone.

***Change PIN:*** Change your PIN (4-8 digits). If you entered wrong PIN three times consecutively, the SIM will be locked and required PUK code to unlock it. PUK code (Personal Unlock Code) comes with you SIM card. If you don't have it, check with your service provider to obtain it. If you entered wrong PUK code ten times consecutively, the SIM card will be locked permanently. Contact your provider in this case.


***Change PIN2:*** PIN2 is required for some function in the phone. Similar to the PIN code, you need PUK2 code to unlock your SIM card if you entered wrong PIN2 three times consecutively. If you entered wrong PUK2 code ten times consecutively, some functions in this phone will be locked permanently. Check with your service provider for your PUK2 code. Usually it doesn't come with your SIM card.

**Privacy guard** – To set up privacy guard to prevent unauthorized use of your *Call history*, *Phone Book* and *Message*.

**Factory** – You have 2 options:

*Clear all:* Clear all the setting in your phone.

*Reset settings:* Reset the phone by using the settings preset by Mitsubishi.

 Use with cautions. The data has been cleared will be not be recovered. All customized data will be cleared/reset including Phone book.

**Change PWD** – To change the password for this phone. Check with your service provide for preset password for first time change.



# Profile



You can customize six different profiles. They will allow you to quickly set your ring volume, ring types, etc. under different situations.

## ■ Available profiles

The six profiles in the phone are:

**Standard** – Normal customization for your phone.

**Outdoors** – Customize the phone when you use it in outdoor environment.

**Meeting** – Customize the phone to use it during a meeting. In most situations, you would like to choose to mute the incoming alert.

**Vibrator** – Enable or disable your vibrator in this phone.

**Earphone** – Customize the phone to suit the situation when you using earphone accessory.

**Bus** – Customize your phone when using on a bus or when you are driving.

In the submenu of each profile, press Left softkey to choose following options:

Option	Descriptions
<b>Activate</b>	To activate the selected profile.
<b>Character</b>	To customize the profile. Please refer to <i>Customization</i> section in this chapter for more details. This function is not available for Vibrator profile.
<b>Auto answer</b>	Only available in Earphone and Bus profile. You can choose to answer a call automatically after 5 or 10 seconds. Or you can turn it off to pick up the call manually.

## ■ Customization

When you choose Character submenu in each profile, you are able to customize following functions:

Function	Descriptions
<b>Call hint</b>	Choose your incoming alert type: <b>Ring</b> – Ring alert in chosen ringtone. <b>Vibrator</b> – Vibration alert. <b>Ring and vib.</b> – Both Ring and Vibration alert at the same time. <b>Vib. Then ring</b> – Vibration alert first and follow by ringtone. <b>Off</b> – No alert.
<b>Ring</b>	Use up/down navigation keys to scroll and choose your preferred ringtones for incoming calls.
<b>Ring Volume</b>	Use up/down navigation keys to adjust the volume.
<b>SMS alert</b>	You can choose one of the followings as your SMS alert when you receive a new SMS: <b>Ring once</b> – Ring once by using chosen Message tone. <b>Vibrator</b> - Vibrate once <b>Ring and vib.</b> – It'll ring and vibrate at the same time. <b>Off</b> – No alert.
<b>Message tone</b>	Use up/down navigation keys to scroll and choose your preferred ringtones for incoming messages.
<b>Keypad volume</b>	Use up/down navigation keys to select the volume for your keypad.

 Please refer to **Sound** under **Amusement** on page 37 regarding how to manage your ringtones.

# Amusement



You can manage your images, ringtones, photos, video clips, sound files in Amusement.

## ■ Picture

**Pictures** stores photos taken by the phone, images provided by Mitsubishi, pictures saved from MMS, pictures downloaded from Internet and pictures downloaded by PC Tools.

All these pictures are saved separately in either Photo or Image folders. When you enter the folder, you can choose following options:

Option	Description
<b>View</b>	View the current image or photo.
<b>Send</b>	Use MMS editor to send the selected image or photo. However due to copyright, you can send images come with your M520.
<b>Rename</b>	Rename the selected image or photo. However you can't rename those images come with your M520.
<b>Sort by</b>	Choose to sort your images or photos by <i>Name</i> , <i>Size</i> or <i>Date</i> .
<b>Delete</b>	Delete the selected image or photo. However you can't delete those images come with your M520.
<b>Delete All</b>	Delete all the images or photos in the folder. However you can't delete those images come with your M520.
<b>Property</b>	View the details of selected image or photo. You are able to view <i>Name</i> , <i>Size</i> , <i>Height</i> , <i>Width</i> , <i>Format</i> and <i>Date</i> .

When you are viewing an image or a phone, press Left softkey to choose following options:

Option	Description
<b>Previous</b>	View previous image or photo.
<b>Next</b>	View next image or photo.
<b>Full screen</b>	View selected image or photo in full screen
<b>Auto view</b>	View all images or photos in the folder automatically like slide show.
<b>Set as wallpaper</b>	Set the selected image or photo as your Wallpaper.

Alternatively, you can use left and right navigation keys to view previous or next picture in the folder.

## ■ Sound

**Sounds** stores audio provided with M520, audio files saved from MMS, audio files downloaded from Internet and audio files downloaded by PC tools.

Following options are available with your sound files:

Option	Description
<b>Play</b>	Play the selected audio file.
<b>Send</b>	Send the downloaded audio file. However the audio files come with your M520 can't be sent.
<b>Rename</b>	Rename the downloaded audio files. However the audio files come with your M520 can't be renamed.
<b>Sort by</b>	Sort the files by <i>name</i> , <i>size</i> or <i>date</i> .
<b>Delete</b>	Delete the downloaded or received audio file. However you can't delete the audio files come with your M520.
<b>Delete all</b>	Delete all audio files in the folder. However you can't delete the audio files come with your M520.
<b>Set ring tone</b>	Set the selected file as you ringtone for incoming calls.
<b>Set MSG. tone</b>	Set the selected file as you ringtone for incoming messages.
<b>Property</b>	View the properties of selected audio file: <i>Name</i> , <i>Size</i> , <i>Format</i> , <i>Date</i> , <i>Time</i> and <i>Forward</i> status.

## ■ Video

---

You can record about 15 seconds video clips with your M520. Please refer to **Camera** section for how to take video clip by using integrated camera in M520.

Following options are available with your video files:

Option	Description
<b>View</b>	View the video.
<b>Send</b>	Send the video as MMS format.
<b>Rename</b>	Rename the video.
<b>Sort by</b>	Sort the videos by name, size and date.
<b>Delete</b>	Delete the selected video.
<b>Delete all</b>	Delete all videos.
<b>Property</b>	View the properties of selected video: <i>Name, Size, Height, Width, Format, Date, Time</i> and <i>Forward</i> status.


When you are viewing a video, press Left softkey to choose following options:

Option	Description
<b>Previous</b>	View previous video.
<b>Next</b>	View next video.
<b>Full screen</b>	View the video in full screen.

## ■ Java

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You can store downloaded Java applications in this folder when browsing WAP pages

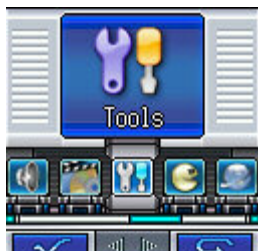
 Please just download applications from reliable sources to avoid virus and hostile software.

## ■ Memory status

---

To view the memory status of your phone. It will display Total memory space, Used memory space and Available memory space for your reference.

# Tools



You can find some useful tools in your M520 phone, for example, Alarm, Calendar, Calculator, etc.

## ■ Alarm

You can set up to 3 Alarms in your M520 phone.



Choose 1 of the 3 available alarm IDs and press OK key to set the alarm.

**Set** – Set it to On to activate the alarm setting. If you choose Off, you will not be able to edit other settings.

**Time** - Enter the alarm time.

**Duty** – You can choose to set the alarm to work:

One time

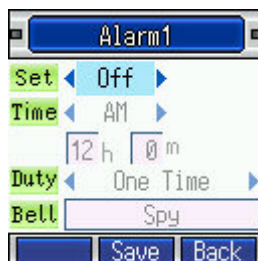
Everyday

Mon ~ Fri

Mon ~ Sat

**Bell** – Choose a ringtone as your alarm.

💡 Use up/down navigation keys to select the setting options and use left/right navigation keys to make selections.



## ■ Schedule



You can schedule or arrange your activities in Schedule tool. When you enter Schedule tool, a calendar of current month will be displayed. Today's date is showed with a blue background. After you add a new task to a certain date, the date will displayed with a blue frame.

When you are going to add a new task, use navigation keys to move the blue cursor to the date you would like to add a task. Press OK key to add a new task.



**Text** – Enter some texts to remind you what this task is about.

**Time** - Edit the time of your task.

**Alarm** – Set the alarm to remind you *On time, 1 hour before, 1 day before* or set the alarm off.

**Bell** – Select the audio for your reminder alarm.

Press Save to save the task.



You can also choose following options to manage your schedules.

**View** – View the tasks in list format. Press OK key on a selected task to obtain details.

**Search** – Enter the date to search any outstanding tasks on that date.

**Delete all** – Delete all tasks that saved in the phone.

**Stored Info** – Display used and still available task memories. You can store maximum 20 tasks.

## ■ Calendar

---

Your phone will display current month calendar when you choose this tool. You can choose to view either solar or lunar calendar by press Left softkey.

## ■ Anniversary

---

Use Anniversary tool to remember important days. You can save your important days by entering following data:

**Name** – Enter some texts to remind you this important day.

**Time** – You can choose to enter either solar or lunar date format.

**MD** – To classify the date as *Anniversary, Birthday or Engagement Day*.

**Alarm** – Set the reminder alarm at *On time, 1 day before, 2 days before* or set the alarm *off*.

After entering all the data, press Save to save into memory.

## ■ Calculator

---

Using Calculator tool is able to do simple calculations, such as plus, minus, multiply or divide calculations.



The instructions of using navigation keys and special symbols are displayed on the screen for your easy reference. Enter the number by press number keys and choose the calculation you need and press OK key to get the result.

Press Left softkey (AC) to clear the existing calculation.

## ■ World time

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You can use navigation keys or Volume/Paging key to view current time in different cities of the world.

## ■ Auto On/Off

---

You can set to turn on or off your phone automatically.

**MD** – Choose to set Auto On or Auto Off.

**Set** – Choose to enable or disable the setting. If you choose to disable it, you will not be able to edit the rests.

**Time** – Set the timing for the Auto On or Auto Off.

**Duty**– You can set to perform the Auto On or Auto Off *One Time, Everyday, Mon~Fri or Mon ~ Sat.*

## ■ Currency Exchange

---

By entering required information, you can use this tool to easily calculate an amount in different currency.

**From** – Choose the original currency by using left/right navigation keys.

**To** – Choose the target currency by using left/right navigation keys.

**Rate** – Set the exchange rate.

**Amount** – Enter the amount you would like to calculate.

After you entered above information, the equivalent amount of your target currency will be displayed in *Result*.



## ■ PC Tool

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You can download your favorite ringtones, video clips and pictures by connecting your phone to a PC with a specific data cable. The phone is compatible with Windows 98, Windows NT, Windows 2000 and Windows XP. The data cable and software may not be included in your phone package. Please contact your local distributor to make purchase. Install the synchronization software on the PC before you connect your phone to your PC and use the PC tool application.

### **Install synchronization software**

1. Start your PC.
2. Insert the CD into CD-ROM.
3. Install the software following the guideline on the screen.
4. You can use it after installation.


## **PC Synchronization**

Insert one end of the data cable to the connector at the bottom of the phone and insert the other end of the data cable to the USB socket on your PC. Select PC Sync in PC Tool to initial the connection. After that you can download the ringtones and pictures from PC to your phone through data cable and synchronization software. You also can synchronize the phone book between your phone and PC with this application.

 The file transferring could be interrupted by an incoming call, battery low or network problems.

## **Modem**

When you enable the modem mode, you can connect your phone to PC and access to Internet through GPRS network.

 When the modem mode is enabled, the PC synchronization function is disabled automatically.

# Game

---



There are five classic games in the phone.

## ■ Push chest

---

You need to push the boxes to the destinations with the least moves. You can only push the box. Use navigation keys to select the push direction.

Option	Description
<i>Jump to level</i>	Input the level number, press OK key to go to that level. There are totally 75 levels in this game.
<i>Continue</i>	Resume the last game.
<i>Help</i>	Descriptions of the game and rules.

💡 During the game, press Left softkey to replay the game.

## ■ Gopher

---

Gopher is a very interesting game. During the game, gopher continues to pop out and shrink back its head from the hole. When the gopher's head is out, hit the gopher by pressing respective key in number keypad. Within a fixed duration, the more gophers you hit, the higher the score. The top 5 scores shall be kept in Highscore list.

## ■ Tetris

---

The goal of this game is to avoid blocks reach the top of game area while obtain high scores. Whenever a row is filled with blocks, it vanishes and increases scores.

Keys	Description
[Left softkey] or [4 key]	Move the block left.
[Right softkey] or [6 key]	Move the block right.
[Down navigation key] or [8 key]	Move the block down.
OK key] or [5 key]	Rotate the block.

💡 During the game, press Left softkey to pause.

## ■ Huarong dao

---

Huarong dao is a very popular game. The goal of the game is to move the blocks so that the largest block Caocao can be moved out from gap. Use navigation keys or respective number keys to move around. Press OK key or 5 to select the block and move to the empty area. There are four pre-designed the maps for your to solve. The less moves you use, the highest score you get. The names of the top 5 highest score will be stored in highscore list.

💡 During the game, press left softkey to replay the game.

## ■ Light up

---

Each rectangle on the screen represents a light. Initially, every light is off. Use navigation or number keys to move around. Press OK key or 5 to turn the light on or off. By doing that, the lights surrounding it will change the On/Off status at the same time. The goal of the game is to turn on all lights.

💡 During the game, press left softkey to replay the game.

## ■ Game audio


---

Enable the Game audio will turn on audio for your games. Disable it will mute the audio.

# Web Browser




The WAP browser enables your phone to connect to the Internet through either general connection or GPRS (General Packet Radio Service) connection based on GSM network you are using. You can access the Internet wherever and whenever now.

 Internet access is an optional service from your service provider. Please check with your service provider for details.

In order to access Internet through WAP, you need to:

1. Apply for the data service or GPRS service.
2. Apply for the Internet access service from Internet service provider.
3. Configure the Internet browser settings on you phone correctly.
4. Access Internet with WAP browser.
5. Bookmark, address and browser setting functions need to be supported by mobile network. Browser can work at both offline and online status.

 For different URL, the procedures of logon or browsing may be different. Some web sites may request users name and password.

## ■ Homepage

Set you homepage in Setting (please refer to page 46). Press Accept to go to homepage. If there is no Internet connection at the moment, the Phone will initiate the connection first before go to the home page.

## ■ Enter address

If you like to go to any web page that not pre-set in your phone, choose this option to enter URL address manually. Press OK key to go to the web page.

## ■ Bookmarks

Make bookmarks to your favorite web pages.

Option	Description
<i>Add</i>	Add a new web page to your bookmark.
<i>Edit</i>	Edit the informaton of current web page.
<i>Delete</i>	Delete the current web page from bookmark list.

<b>Delete all</b>	Delete all web pages from bookmark list.
<b>Save as homepage</b>	Save the current web page as your Homepage.

## ■ History

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In History, it lists out the most recent visited 6 web pages.

## ■ Settings

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### Edit homepage

Select to edit your homepage address.

### Profile

You can set up maximum 5 profiles: GPRS, CSD and 3 other personal profiles. In each profile, you can customize followings:

Option	Description
<b>Show image</b>	Enable to show images on the web pages.
<b>Gateway info</b>	Enter the proxy address and port for gateway information.
<b>Bearer type</b>	Choose either GSMCSD or GSMGPRS
<b>Data setting</b>	Enter your user account information to access internet: Dial number, User name and Password.
<b>Rename</b>	To rename your profile. Only available for 3 user-defined profiles.

### Cache

An efficient cache will promote buffer performance. It is especially important when downloading different contents. It is necessary to guarantee the downloaded information is correct every time. To enable the Cache setting, choose *On* in *Cache mode* setting. To clear the cache, choose *Clear Cache*.

## Cookies

Cookie refers to the trivial information delivered from server. The cookie stores the access information of a certain web site.

⚠ It's advised to clear cookies after you access some web sites with security settings.

## GPRS data count

You can check the volume of sent and received data that were delivered through GPRS connection. This can be used as reference to compare with your GPRS usage record from your service provider.

### ■ Push inbox

---

The phone can receive the service messages (push messages) sent by your service provider. Maximum 10 records could be stored in the phone memory. To check push messages, select Push inbox and choose the message by using navigation keys or Volume/Paging key. When reading the message, you can choose following options:

Option	Description
<i>Display</i>	Display the selected push message.
<i>Load</i>	If there is any URL in your push message, select this option will enable your WAP browser to go to the URL.
<i>Delete</i>	Delete the push message.

### ■ When online

---

When you are already online, you can choose following options to help you browse web pages easily.

**Homepage** - Choose to go to Homepage.

**Back** - Choose to go to the previous page you were browsing.

**Forward** - Choose to go to the next page you were browsing.

**History** - Those recent browsed web sites will be stored in History. Choose one of them to go to that web site.

**Refresh** - Choose this to refresh the current page.

**Bookmarks** - Go to the bookmark list and choose the site you would like to browse. You can choose also to edit or delete any bookmarks.

**Save as bookmark** - Save the current web page into your bookmark list.

**Enter address** - Enter another URL and go to that web site.

**Save as** - Choose to save the picture from this web page to your phone.

**Exit** - Exit the browser directly.

**Display URL** - Display the URL of the current web site.

## ■ Download picture and audio

---

You can download pictures and audios when browsing web sites.


M520 support following formats:

Picture: BMP, GIF, WBMP and JPG

Audio: MID, VMD and WAV

If the web site contains any picture format that not supported, X will be displayed.

When you browsing the web site, choose the format you want to download and save the picture or audio to **Amusement**.

 You can save up to 400 pictures in your M520. You will not be able to save any downloaded picture after that. It's the same for ringtones. When free memory space is less than 128k, no picture or ringtone can be saved.

# STK

---

This option needs to be supported by your service provider and SIM card. This menu will display only when you are allowed to use this service. Select the services by using up/down Navigation or volume/Paging keys. If you choose any function from the services, you may be charged for using it. Check with your service provider for the charge rates.

- ⚠ You need to subscribe to this service. Check with your service provider. The service menu for STK may vary depending your SIM cards and service provider.



# Camera

Press Camera/Video key to activate the integrated camera in your M520. The photos are saved as JPEG format. The resulting videos will be in MJPG format. Press OK key (Shoot) to shoot a photo. Select Menu to manage your camera.

💡 JPEG is a standard encoding format. You can view the JPEG pictures with the most popular photo browser, photo editor and Internet browser. The file extension is JPG.

⚠️ In order to maintain the traffic speed of multimedia message, some countries has limit about transmission size of multimedia message. For example, In China, the limit is 50K per multimedia message. Videos can't be sent as multimedia messages.

Your M520 camera integrated up to 4 times digital zoom feature.

## ■ Take a photo

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⚠️ Please follow the local regulation or legislation for photo shooting, don't use the application illegally.

⚠️ Must turn on the phone to use the application. When using the phone is forbidden or dangerous, please don't turn the phone on.

In standby status, press Camera/Video key on the left side of the phone to enable Camera. You can view the shooting object on the screen. Only the objects inside the boundary box can be taken into a photo. Due to the limitation of phone screen resolution, the photo has higher resolution when displaying on a PC monitor. If the camera is too close to the shooting object, it will affect the clarity of the photo. Press OK key (Shoot) to take the photo. You can choose to *Save* this photo in Photo list, *Send* in a MMS or go *Back* to shoot another photo.

⚠️ If there are less than 128K available memory spaces, you will not be able to save photos or videos.

## Take a photo with clamshell closed

You can take a photo of normal mode with the clamshell closed. Open the clamshell first. In standby status, press Camera/Video key to enter Camera application. When you can browse the shooting objects from internal screen, close the clamshell. Now you are able to browse your shooting objects on your external screen. Then, you shall also be able to browse the photo objects on external screen. After focusing with Volume/Paging key, press Camera/Video key to take a photo.

## ■ Zoom

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When you view a picture especially view the picture with full screen, press Volume/Paging key to zoom in or out.

## ■ Setup

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To set up your camera for various usage, Select Menu after your activate Camera application.

### Shutter Mode

Mode	Description
<i>Normal</i>	Standard shutter mode. This is the default setting.
<i>Frame</i>	Your photo will have a photo frame.
<i>Multi-shot</i>	To continuously take photos
<i>Video</i>	To take a video clip instead of photo.
<i>VGA</i>	Your photo resolution will be 640x480 in this setting.
<i>Portrait</i>	To take a Portrait photo for Phone Book usage.

**Quality** - Set you photo quality to Normal, Fine or Super Fine.

**Filtering** - By setting this, you can take a Normal or Monochrome photo.

**Shutter Sound** - 3 different sounds can be selected as the sound for your shutter action.

**Brightness** - Adjust the brightness to get the best result.

**Self shutter** - Enable to perform a self shutter.

**Self timer** - Set the timer for self shutter for 5, 10 and 15 seconds.

**Frame Select** - Select your preferred photo frame.

**Multishot Count** - Set the number of photos to be taken in Multi-shot shutter mode.

**Brightness** - Adjust the brightness to get the best result.

## ■ Image list

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Please refer to Picture from Amusement on page 36.

# Call history

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In standby status, press Left softkey to go Call History directly.

## ■ Check call records

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You can view the numbers of the most recent 20 dialed calls, answered call and missed calls. You can check the details for each dialed call, including name, number and date. From the call history list, press Left softkey to enable following options:

Option	Description
<b>Save</b>	Save the number to the Phone Book of SIM card or the phone itself.
<b>Dial</b>	Press OK key to dial the number.
<b>Send</b>	Send a message to the number.
<b>Delete</b>	Delete the call record.
<b>Delete all</b>	Delete all the records for category.

## ■ Call time

---

You can check the duration of last call or the total call time used by this option (displayed in hour, minute, second sequence). Press Left softkey to reset the time.

-  The call times listed in the bill from service provider maybe different with the records you check by this option. It also depends on the network function, rounding and tax etc.

# Appendix

## ■ Troubleshooting

If you have problems when you use your phone, please read the following troubleshooting tips.

Problems	Cause	Solution
<i>Unable to connect to Internet</i>	The Internet access is not supported by network service provider or you didn't subscribe for the service.	Please contact your network service provider and apply for the internet access service.
	Configuration error	Following the instructions In Web Browser chapter, or contact your service provider for helps.
<i>SIM card error</i>	The SIM card is damaged.	Please contact network service provider to get a new SIM card.
	The SIM card is incorrectly inserted.	Follow the instruction to insert the SIM card again.
	Metal surface of the SIM card is contaminated.	Wipe the SIM card with a dry clean cloth.
<i>Weak signal</i>	Use the phone in the area of weak signal strength such as in a surrounding area of a skyscraper, or in a basement so that the radio wave can't reach.	Try a stronger signal strength area.
	Network traffic is congested.	Avoid using the phone when network traffic is busy.
<i>Unable to turn on the phone</i>	Out of battery	Charge or replace the battery.

<i>Unable to make a call</i>	Outgoing calls are set to be barred.	Disable the call barring.
<i>Unable to connect to network</i>	Invalid SIM card	Contact your network service provider to get a valid SIM card.
	Out of GSM service area	Move to GSM service area
	Weak signal	Try a stronger signal area.
<i>Unable to charge battery</i>	Voltage of power supply isn't compatible with charger.	Use a compatible power supply.
	Using unauthorized charger	Please use the approved charger
	Bad connection	Check the plugs and sockets.
	Inadequacy circumstance	Short press On/Off key

## ■ Text input method

A few text input methods are available in your M520 phone. When you are in text editing screen, you can press any one of the following keys to switch among all input methods.

# key

Left softkey

Volume/Paging key

### Using Quick English text method

Switch to Quick English text method. You can continuously key in the characters by using this method. Possible words will be displayed at the bottom of the screen. Select the required word by using left/right navigation keys. Press Call/Send key to insert the selected word to the blinking cursor position.

## **Symbols**


Switch to symbol input method. A box contains various symbols will appear at the bottom of the screen. Use navigation keys to view more symbols and press correspondent number key to insert the selected symbol to the blinking cursor position.

## **Standard English text input method**

You can choose to use capital or small letters. Switch to the input method you prefer. Press the number key until the required English letter appears. Press Call/Send key to insert the letter to the blinking cursor position.

## **Number input method**

Switch to Number input method. Press the number key to insert the number to the blinking cursor position.

 Press 0 key to enter a space (except number input method). To enter a space in number input method, switch to other method first.



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