



HELIO™

HERO™



by PANTECH

User's Manual

Hero User's Manual.

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- Product meets current FCC Radio Frequency Exposure Guidelines. FCC Equipment Authorization ID: PP4PN-E8300. Additional details within and at <http://fcc.gov/oet/fccid>.
- TTY compatible.
- Phone appearance and features may vary from device shown.
- Screen shots simulated. Actual results vary.
- Meets FCC SAR limit.
- All features, functionality or other product specifications are subject to change without notice or obligation. Battery should be recycled or disposed of properly.
- Phone made in Korea with Korean and foreign components. Other items imported. See each item for country of origin.
- Hearing Aid Compatibility (HAC) level = M3.

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Thank you for choosing the Helio® Hero mobile device, developed by Pantech. Pantech's dedicated team of top researchers have designed your mobile device to support high speed communication services, such as web browsing and data services, and the device has an animated graphic menu system for easy access to its many features.

Among its many advanced features, T9® Predictive Text Input makes it much easier to enter letters and type messages, and Voice Recognition adds the convenience of hands-free dialing. Other included technologies are:

- Full graphic display of 9 text input lines and 1 icon line with variable font size
- Simple text entry using T9 Predictive Text Input
- Enhanced for web browsing and data services
- Animated Graphical User Interface (GUI) compliant with 3G (CDMA2000 1X and EVDO)
- CSTN 65K color LCD
- Mobile camera (2.0 megapixel) with flash
- Navigation Key and 21 keys aligned for easy access
- Sophisticated speakerphone features
- Text messaging and web browsing services
- Authentication, call forwarding, call transfer, and call waiting

IMPORTANT INFORMATION

This user's manual contains very important information about how to handle and use your mobile device. Please read it thoroughly. Pay attention to the warranty at the end of this user's manual, and be alert to the exclusions and limitations related to the use of unauthorized components.

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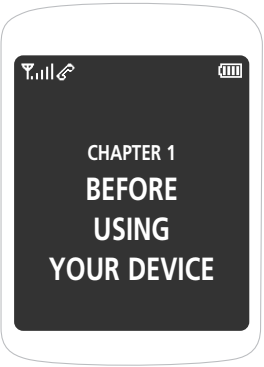
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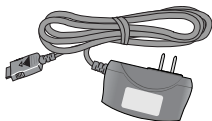
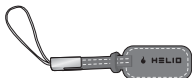
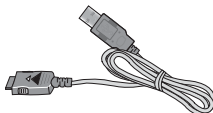
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This chapter provides important information about using the Hero, including:

- INSIDE THE PACKAGE
- DEVICE DESCRIPTION
- DISPLAY INDICATORS
- BATTERY USAGE
- BATTERY HANDLING INFORMATION

This package should include all items pictured below. If any are missing or different, immediately contact the Helio store where you bought your mobile device.

**Hero****Battery****CD****Charger****Screen Cleaner****USB Cable**

This device is a single-mode 3G digital phone with camera and web browsing capabilities. The Hero weighs 4.84 oz. The dimensions are 1.93" x 4.27" x 0.95".

■ DEVICE VIEW



FUNCTION KEYS

Display Indicators

See page 13 for a list of icons.

VOD Key

Camera Key

In Idle Mode, press and hold to open camera viewfinder
In Camera Mode, press to shoot a photo or video

NAVIGATION PAD

In Idle Mode

Press Up for Surf
Press Down for Video+Music
Press Left for Text
Press Right for Apps

Inside a menu

Within a menu, use to scroll through menu options, or to select a function displayed on the screen

Press to make or receive a call, or display recent calls

Press and hold to enter a plus symbol (+)

MOD Key

Text & Graphic area

Soft Key Indicators

Shows the functions currently assigned to each soft key and displays some icons

FUNCTION KEYS

Left Soft Key

Press to access the main menu or the function displayed at bottom left of LCD

Right Soft Key

Press to access the Contacts menu or the function displayed at bottom right of LCD

Press to turn the phone on/off, to terminate a call, or to return to the initial page

Back

Press to clear a digit from the display or to return to the previous page

Press and hold to enter lock mode



■ DISPLAY INDICATORS



Signal Strength

Current signal strength: the more lines, the stronger the signal



Roaming

Device is out of Helio service area



Calling



Call Lock



Voice Privacy



Standby



Privacy Mode

Service Indicator

A call is in progress or the device cannot receive a signal from the system



Text



Voice



Text & Voice



Pic



Text & Pic



Pic & Voice



Text & Pic & Voice

Message Waiting

New text, picture, or voice messages



Full Charge



Empty

Battery

Battery charge: the fuller the battery icon, the stronger the charge



3G Mode

Device is operating in 3G mode



1X

Device is in 1x service area



Data Service

Internet access is active



Manner Mode

Device is in Silent Mode — all sounds are off

**Airplane Mode**

Device is in Airplane Mode and cannot make or receive voice or data calls

**Anniversary**

An anniversary is set

**Alarm / Wakeup Call**

An alarm or wakeup call is set



Ring



Vibrate then Ring



Ring and Vibrate

Ring Mode

Indicates the device's current ring mode

**Dormant**

Device is in Dormant Mode during a data call. Your device goes into Dormant Mode when you have not had any activity on a page for some time — your connection is still active and you can make and receive calls.

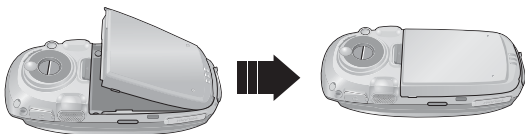
**Vibrate**

Device will vibrate when a call is received

■ BATTERY INSTALLATION

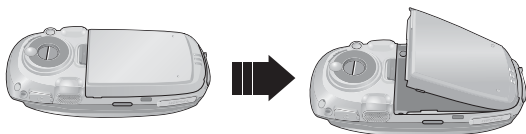
As shown in the picture below, position the metal locators of the battery in the holes located in the bottom of the device.

- ① Place the battery on the back of the device and slide into place.
- ② Push the battery down until it locks into place.



■ BATTERY REMOVAL

- ① Pull down the release latch, then lift up the battery.
- ② Remove the battery from the device.



If the battery is not correctly placed in the compartment, the device will not turn on and/or the battery may detach during use.

■ BATTERY CHARGING

POWER CONNECTION

- 1 Ensure the battery is installed.
- 2 Plug the Wall Charger into a standard outlet. Plug the other end of the Wall Charger into the bottom of the device.



- When you charge the battery with the device off, you will see a charging status screen. You cannot operate the device until it is powered on.
- Fully charge the battery before use.
- It is more efficient to charge the battery with the device powered off.
- The battery must be connected to the phone before it can be charged.
- Battery life gradually decreases over time.
- If the battery fails to perform normally, you may need to replace it.

BATTERY USAGE TIMES

Battery life is subject to your device usage and configuration.

Battery Capacity	DCS	PCS
Low Gain Mode	Up to 300 minutes	Up to 310 minutes
High Gain Mode	Up to 210 minutes	Up to 217 minutes

BATTERY STANDBY TIME

Battery life is subject to your device usage and configuration.

Battery Capacity	DCS	PCS
STD 1200 mAh	228–231 hours	212–248 Hours



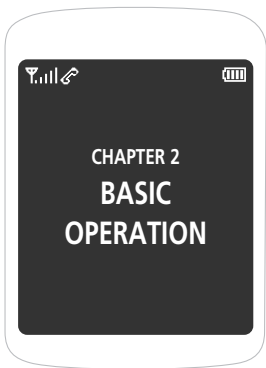
These times are for a new battery. Usage and Standby time may decrease over time.

■ DOs

- Only use the battery and charger approved by the manufacturer.
- Only use the battery for its original purpose.
- Keep the battery temperature between 41°F (5°C) and 95°F (35°C).
- If the battery is stored in temperatures above or below the recommended range, give it time to warm up or cool down before using.
- Completely drain the battery before recharging. It may take one to four days to completely drain.
- Store the discharged battery in a cool, dark, and dry place.
- Purchase a new battery when the life of the current battery has decreased gradually over time.
- Properly dispose of the battery according to local laws.

■ DON'Ts

- Don't attempt to disassemble the battery — it is a sealed unit with no serviceable parts.
- Don't accidentally short circuit the battery by carrying it in your pocket or purse with other metallic objects such as coins or pens. This may critically damage the battery.
- Don't leave the battery in hot or cold temperatures, which can significantly reduce the capacity and lifetime of the battery.
- Don't dispose of the battery in a fire.



This chapter addresses and explains the basic features of your mobile device, including:

TURNING THE DEVICE ON AND OFF

ACCESSING THE MENU

MENU SUMMARY

BASIC FUNCTIONS

DURING A CALL

MAKING AN EMERGENCY CALL

■ TURNING THE DEVICE ON



Slide the device open, then press and hold  until the **Power On** logo and animation appears and the wake up tone sounds.



NOTE

- If the device is locked, enter your four-digit password to unlock it when "Password" appears on the display.
- The default password is '0000'.

■ TURNING THE DEVICE OFF

Slide the device open, then press and hold  until the **Power Off** logo and animation appears and the tone sounds.



NOTE

- Immediately change or recharge the battery when "Low Battery Warning Power Off" appears on the display. Memory may be damaged if the device turns off as a result of the battery completely draining.
- Turn the device off before removing or replacing the battery. If the device is on, unsaved data may be lost.

Your device can be customized via the menu. Each function can be accessed by scrolling with the Navigation Key or by pressing the number that corresponds with the menu item.

- ❶ To access the menu in idle mode, slide the device open and press  [Menu].
- ❷ Use the Navigation Key to scroll through the menu.
- ❸ To return to the previous page, press . To exit the menu and return to idle mode, press .
- ❹ To select a function, use the Navigation Key or press the number assigned to the function.



Hotkey

In idle mode, use the Navigation Key as follows to access these functions:

- **Up:** SURF
- **Down:** VIDEO+MUSIC
- **Right:** APPS
- **Left:** TEXT

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
1. STYLE	1. Rings 2. Download 3. Screens 4. Download 5. Call Screens 6. Download 7. H.O.T. Screens 8. Download		
2. SURF 3. SNAP	1. Camera 2. Video Camera 3. Photo Album 4. Video Album 5. Settings 6. Print Photos 7. Memory Info	1. Internal 2. External	
4. TEXT	1. New Text Msg 2. Text Message 3. New Pic Msg 4. Pic Messages	1. New Text Msg 2. Timed Text 3. Inbox 4. Outbox 5. Drafts 6. Timed Text Box 7. Saved 1. Compose 2. Inbox 3. Outbox 4. Drafts 5. Media 6. Settings	1. Received Msg 2. Saved 3. Spam Msg 1. Sent Msg 2. Saved 1. Photos 2. Music 3. Movies 1. Background 2. Font Color 3. Msg Rcv Alert 4. Spam Filter 5. Photo Size 6. Msg Auto Save

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
5. CONTACT	5. Email		
	6. Voice Mail	1. Call Voice Mail 2. Clear Envelope	
	7. Spam Inbox		
	8. Delete Msgs	1. Text Inbox 2. Text Outbox 3. Text Drafts 4. Timed Text Box 5. Text Saved 6. Spam Msg 7. Quick Text 8. All Msgs	
	9. Settings	1. Msg Alert 2. Quick Text 3. Spam Msg Settings	1. Restricted List 2. Restricted Text 3. Spam On/Off
	1. New Contact		
	2. Contact List		
	3. Groups		
	4. Speed Dials		
	5. Call Log	1. All Calls 2. Incoming 3. Outgoing	
	6. Call Timer	1. Last Call 2. All Calls 3. Lifetime Calls	
	7. Service Number	1. Info. 2. Customer Care 3. Emergency	
	8. Sync Contacts	1. Sync Contacts 2. Preview Sync 3. Username/Password 4. Help	
	9. My Number		

[illegible]

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
	3. Call	1. Answer Call On 2. Auto Functions 3. TTY	
	4. Network	1. Helio Settings 2. Network Mode	
	5. Device	1. Memory Info 2. SW Version 3. My Number 4. Reset	1. Internal 2. External 1. Delete Contacts 2. Reset Defaults
	6. Security	1. Phone Lock 2. Function Lock 3. Info Lock 4. Set Password	
	7. Language	1. English 2. Korean	
	8. Airplane Mode		

■ MAKING A CALL



- 1 Slide the device open and enter a phone number.



To modify the phone number you have entered:

- Erase one digit at a time by pressing .
- Erase the entire number by pressing and holding .

To send a text or photo message to the phone number:

- Enter a part of the phone number, then press  [Menu] and select **New Text Msg** or **New Pic Msg**. Refer to pages 67–76 for more details on text and picture messages.

- 2 Press . The indicator  appears on the display.



- If "CALL FAILED" appears on the display or the line is busy, press  or .
- If you activate the Auto Redial function, the phone will automatically retry for the number of times you have selected (refer to page 128).
- When you place or receive a call from stored phone numbers, both the name and phone number will be displayed.
- If "Enter Lock Code" appears on the display, enter your four-digit password to unlock your device.

- 3 To end a call, slide the device closed or press .

■ ANSWERING A CALL

- 1 When your device rings or vibrates, slide it open and press  to answer the incoming call. (Depending on your device settings, you may also answer incoming calls by opening the phone or by pressing any number key.)



To ignore an incoming call and silence the ring, press  [Silent]. Press  [Reject] a second time to reject the call.

- 2 To end the call, slide the device closed or press .

■ SPEAKERPHONE

The speakerphone feature lets you hear audio through the speaker and talk without holding the device to your ear.

To turn speakerphone on/off while on a call, press .

The device returns to normal (speakerphone off) after ending a call or when it is turned off and back on.

■ CALLER ID

Identifies callers by displaying their phone number. If the caller's name and number are already stored in your phone book, they will both appear.



Caller ID information is stored in Call History.

■ LOCK MODE

- 1 To lock the device, slide it open, then press and hold .
- 2 To unlock the device, press any function key (except ) , then input your password.

■ THREE-WAY CALLING

With Three-Way Calling, you can talk to two people at the same time. When using this feature, normal airtime rates will apply to the two calls.



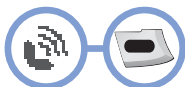
- 1 Slide the device open, enter a number you wish to call, and press .
- 2 Once you have established the connection, enter the second number you wish to call and press .
- 3 When you're connected to the second party, press  again to begin your Three-Way Call.



If one of the people you called hangs up during your call, you and the remaining caller stay connected. If you initiated the call and are the first to hang up, all three callers are disconnected.

■ CALL WAITING

Notifies you of an incoming call when you are already on a call by sounding a beep tone and displaying the caller's phone number.



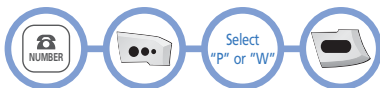
To answer another call while on the phone, press . This places the first call on hold. To switch back to the first caller, press  again.



Call Waiting is a system dependent feature. Please contact Helio for details.

■ 2SEC/HARD PAUSE

Pauses are used for automated systems (for example, voice mail or calling cards). When you insert a pause after a phone number and then enter another group of numbers, the second set of numbers is dialed automatically after the pause. This feature is useful for dialing into systems that require a code.



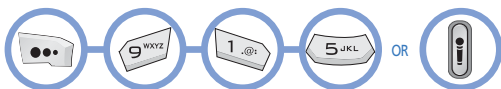
- 1 To insert a pause, enter a phone number, then press  [Menu]. Select either a **2sec Pause** ("P" appears) or a **Hard Pause** ("W" appears).
- 2 Press  to dial, or  [Save] to store the phone number.



Please refer to page 36 for more details about storing a phone number.

■ ADJUSTING VOLUME

Adjust the volume of the ring, key beep, and speaker.



❶ Select one of the following:

- **Ring:** Controls the ring volume
- **Call:** Controls the call volume
- **Effect:** Controls the volume of special effects
- **Alerts:** Controls the alert volume
- **Alarm:** Controls the alarm volume
- **Msg:** Controls the message notification volume
- **Game:** Controls the volume of game audio
- **On&Off:** Controls the on/off volume

❷ Adjust the volume and press  [Save] to save it.

In Idle Mode, you can also press  to adjust the volume.

■ AVAILABLE OPTIONS DURING A CALL

To display menu options during a call, press  [Menu]. To adjust the call volume, press the Navigation Key up or down. To mute the call (the other party can't hear you, but you can hear them), press  [Mute]. Press  [Unmute] again to unmute.

- The phone will automatically unmute in Emergency Call or Callback mode.

1. CONTACTS

Allows you to view and update your contact list during a call.

Press  then .

2. READ MESSAGE

Allows you to view text messages during a call.

Press  then .

3. SEND MY

Automatically transmits your mobile number during a call—for instance, to a pager.

Press  then .

4. PRIVACY

Turns on privacy.

Press  then .

5. DTMF TYPE

Sets the length of touch tone dialing tones: short or long. Use long tones for noisy lines.

Press  then .

Dialing 911 puts the device in the Emergency Call Mode. Note that you can also dial 911 when your device is locked or you are out of the service area.



■ 911 IN LOCK MODE

911 service is available even when the device is locked.

- 1 Enter "911" and press .
- 2 The call connects.
- 3 The device exits Lock Mode for five minutes.

- When the call ends, the device returns to Lock Mode.

■ 911 USING ANY AVAILABLE SYSTEM

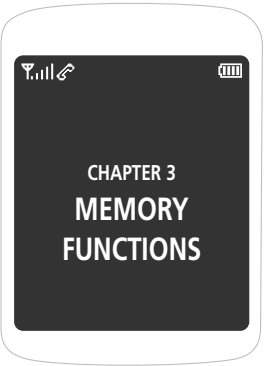
911 service is available even when out of the service area.

- 1 Enter "911" and press .
- 2 The call connects.
- 3 The device maintains Emergency Mode for five minutes.

- While the device is in Emergency Mode, it can receive an incoming call from any available system. However, it cannot make a call.



The 911 call is not recorded in the recent call list.



This chapter addresses memory functions, including:

STORING CONTACT INFO

ENTERING LETTERS, NUMBERS, AND SYMBOLS

MAKING A CALL THROUGH THE CONTACT LIST

The contact list stores up to 1200 entries.

- ❶ Slide the device open, enter the phone number, press  [Save], and choose **New Contact** or **Update Contact**. Press  to select.
- ❷ If you select **New Contact**, the phone number will appear above a list. Press the Navigation Key up or down to choose the type of number you're adding, as indicated by the icon. Press  to select.
If you select **Update Contact**, your contact list is displayed. Choose the entry to add the phone number to, then press . You will then see the phone number listed. Press  to select.
- ❸ Enter a name.
Refer to page 37 for more details on entering letters, numbers, and symbols. To change the input mode, press  [Abc]. Press the Navigation Key down to select other options. If you entered a phone number, press  [Menu] to select one of the following options:

- Add Number
- Add Email
- Add Memo
- Add Birthday
- Add Photo
- Add New Group
- Delete Number

- ❹ To store the entry, press  [Save]. "Saving..." then "Saved" will be displayed.

T9 input mode will automatically be activated when necessary to enter letters and numbers. As shown below, there are five available modes: T9 input mode (T9Word), capitalized standard input mode (ABC), initial caps standard input mode (Abc), numeric mode (123), symbol mode (Symbols), and Korean mode (Korean).

The input mode indicator appears in the lower right corner of the display when letters and numbers are entered. To select the desired input mode from the six available modes, press  [Abc].

The following table describes the function assigned to each key when entering text.

KEY	FUNCTION
	Abc Press to change the text input mode: [T9Word][ABC][Abc][123][Symbols][Korean]
	Next Press to view the next matching word if the highlighted word is not the word you intended.
	Space Press to accept a word and add a space.
	Caps Lock Press to select the letter case for standard text input or T9 text input mode. "Abc," "ABC," or "abc" indicate the case. Press and hold to change mode.
	Back Press to delete a character to the left of the cursor.
	Send Send the letters and numbers you enter.

■ STANDARD INPUT MODE

Use the number keys to enter letters, numbers, and symbols.

- 1 Enter letters using the keypad as follows:

Key	Press 1 time	Press 2 times	Press 3 times	Press 4 times	Press 5 times
2ABC	A	B	C	2	A
3DEF	D	E	F	3	D
4GHI	G	H	I	4	G
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

To enter a symbol, press  repeatedly until the desired symbol appears (. @ ? ! - , & : ' « 1). To change the input mode, press  [Abc].

To enter a space, press .

- 2 Repeat until all letters are entered.
- 3 To delete a character, press . To delete all characters, press and hold .
- 4 To change from lowercase to uppercase, press .

■ T9 INPUT MODE

The T9 input mode incorporates a built-in dictionary to determine a word based on the characters entered. Using T9, a word can be entered more quickly by pressing a key once per character.

- ❶ Select T9 mode by pressing  [Abc] and selecting **T9Word**.
- ❷ For each character in the word you want to enter, press the corresponding key once.
- ❸ To view the next matching word, press .
- ❹ To accept a matching word and enter a space, press .



To enter a compound word:

- ❶ Enter the first part of the word, then press the Navigation Key right to accept it.
- ❷ Enter the last part of the word, then press  to enter the word.

■ NUMERIC MODE

Allows you to enter numbers.

- 1 Press  [Abc] and select **123** to select numeric mode.
- 2 To enter a number, press a digit key.

■ SYMBOL MODE

Allows you to enter symbols.

- 1 Press  [Abc] and select **Symbols** to select symbol mode.
- 2 Select the symbol you want to enter with the Navigation Key.

- Use the Navigation Key to view a different line of symbols.

■ KOREAN MODE

Allows you to enter Korean characters.

- 1 Press  [Abc] and select **Korean** to select symbol mode.
- 2 To enter a character, press a key on the keypad.

■ ONE-TOUCH/TWO-TOUCH DIALING

Ideal for frequently dialed numbers, this feature allows contact list entries to be dialed via the keypad with only one or two key presses.

ONE-TOUCH DIALING:

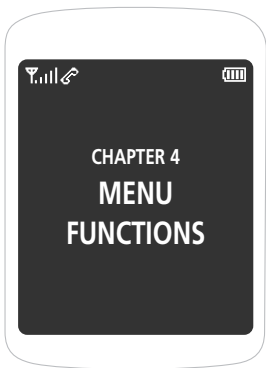
1–9: Press and hold the corresponding memory number for more than one second.

TWO-TOUCH DIALING:

10–99: Press the first digit of the memory number, then press and hold the second digit for more than one second.



- If no phone number is stored in the location entered, “Invalid Speed Dial” will appear on the screen.
- The first speed dial slot is reserved for voice mail access.
- Refer to page 87 for more information on speed dialing.



This chapter addresses accessing the menu and using its functions and features to customize your device:

STYLE

SURF

SNAP

TEXT

CONTACT

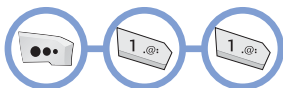
APPS

PLAN

VIDEO+MUSIC

SETUP

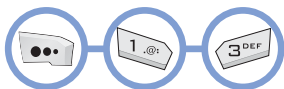
■ RINGS



- 1 Press [Menu] .
- 2 Select your ringtone, volume, and vibrate and ring settings.

To download rings, press [Menu] .

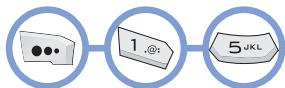
■ SCREENS



- 1 Press [Menu] .
- 2 Select your idle screen options. Press [Preview] to view the current options. Note that you can change the currently selected setting while previewing by pressing the Navigation Key left or right.

To download screens, press [Menu] .

■ CALL SCREENS



❶ Press [Menu] .

❷ Select the screen to display when a call is coming in.

To download call screens, press [Menu] .

■ H.O.T. SCREENS



To turn on H.O.T.™ (Helio On Top):

- 1 Press  [Menu]  .
- 2 Highlight a H.O.T. screen and press  [Menu].
- 3 Select **Turn On H.O.T.** and press  three times.
- 4 Close and re-open the device. The H.O.T. screen is now running.

To turn off H.O.T.:

- 1 With H.O.T. active, press  [Menu] and select **Turn Off H.O.T.**

To download H.O.T. screens, press  [Menu]  .

Note: H.O.T. screens are separate applications and must be downloaded to your Helio device. Go to **[Helio.com/support](https://helio.com/support)** for more information about downloading and configuring H.O.T. screens

■ ACCESS HELIO ONLINE

You can access news, sports, weather, and email from your mobile device. Contact Helio for a list of available websites and service details.



To launch the mobile web browser and access websites through your mobile device, press  [Menu]  or press the Navigation Key up.

■ BROWSER MENU

The browser menu contains various browser options. To access the browser menu, press  [Menu] while in the mobile web browser. Press the Navigation Key left and right to navigate the menus, then up and down to select items within the menus. The following menus are available:

FAST ACCESS

Lists quick navigation links:

HOME

Navigates to the home page.

SEARCH

Navigates to the search page.

GO

Asks for a URL and navigates to it.

FORWARD

Navigates to the next page in the history list. This is only available if you have navigated backward in the history.

BOOKMARKS

Allows you to create and navigate to bookmarks:

ADD

Creates a bookmark for the current page.

- 1 Select **Add**.
- 2 Press  and enter a name for the bookmark.
- 3 Press the Navigation Key down and select a folder, or press  [Edit Folder] to create a new folder or change an existing folder.

To add a new folder:

- 1 Select **New Folder Name**, press , enter the new name with the keypad, then press  again.
- 2 Select **Add Folder** and press .

To edit an existing folder:

- ① Select the folder to be edited by pressing  and using the Navigation Key.
- ② To change the folder name, select **New Folder Name**, press , enter the new name with the keypad, press  again, then press  [Save]. (Note that you cannot change the name of the Favorites folder.)

To delete the selected folder, select **Delete Selected Folder** and press .

VIEW ALL

Displays all bookmarks and allows you to navigate to them.

HISTORY

Displays the history list, where you can view and delete all stored history pages.

SETTINGS

Display various browser options.

REFRESH PAGE

Refreshes the current page.

SETUP OPTIONS

Sets browser settings:

- **Scrolling Mode:** Changes the page scrolling mode: Line by Line, Half Page, or Single Page.
- **Autosave Last Menu Selection:** Saves the last menu selection and returns to that menu when you bring up the browser menu again.
- **Reset:** Sets the browser settings back to factory defaults.

LOOKUP CONTACT

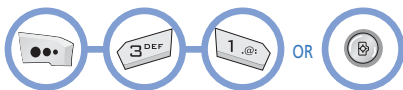
Allows you to look up a contact while browsing.

BROWSER INFO

Displays browser version information.

■ PHOTO CAMERA

Taking pictures with your mobile device's built-in camera is as simple as choosing a subject, pointing the lens, and pressing a button.



TAKING A PHOTO

- 1 Open the camera cover by sliding the release clockwise.
- 2 The camera viewfinder will appear. If the camera cover is already open and the viewfinder doesn't appear, press and hold the side camera button  to activate Camera Mode.
- 3 Point the camera lens at your subject. You can check the photo framing through the main display screen.
- 4 Press  or  to take the photo.
- 5 The picture will be saved automatically in the Photo Album.

When you are done taking photographs, close the camera cover to exit Camera Mode.

- You cannot place or receive calls while in Camera Mode. All incoming voice calls will be forwarded to voice mail.

TAKING A PHOTO THROUGH THE MENU

- 1 Ensure the camera cover is open.
- 2 Press  [Menu]  .
- 3 Point the camera lens at your subject. You can check the photo framing through the main display screen.
- 4 Press  or the side camera button  to take the photo.
- 5 The picture will be saved automatically in the Photo Album.

CAMERA MODE OPTIONS

When the device is in Camera Mode, several camera options are available.

WHITE BALANCE

Press  to adjust the white balance: Auto, Outside, Cloudy, Fluorescent, or Bulb.

FLASH

Press  to set the flash: Auto, Off, or On.

When the device is closed:***BRIGHTNESS***

Press the Navigation Key up/down to adjust the brightness. The current brightness level appears at the bottom of the screen.

ZOOM

Use the  and  buttons to change the magnification. The current zoom level appears on the right side of the screen.

When the device is open:***BRIGHTNESS***

Press the Navigation Key left/right to adjust the brightness. The current brightness level appears at the bottom of the screen.

ZOOM

Press the Navigation Key up/down to change the magnification. The current zoom level appears on the right side of the screen.

CAMERA MODE MENU

Press  [Menu] to bring up the menu in Camera Mode:

1. Resolution

Selects the picture resolution.

Device open: 320×240, 240×320, or 240×180

Device closed: 1600×1200, 1280×960, 1024×768,
800×600, 640×480, 320×240, 240×320, or 240×180

2. White Balance

Adjusts the white balance: Auto, Outside, Cloudy, Fluorescent, or Bulb.

3. Flash

Sets the flash: Auto, Off, or On.

4. Quality

Selects the picture quality: Super Fine, Fine, or Normal.

5. Multishot Mode

Selects a multishot mode: Single, Auto Series 4cuts, Auto Series 6cuts, Auto Series 9cuts, Split Series 4cuts, Split Series 9cuts, or Split Series 16cuts.

6. Camera Mode

Selects the camera mode: Auto, Portrait, Landscape, Portrait_Landscape, or Night.

7. Timer

Sets the camera's timer: Timer Off, 2sec, 5sec, or 10sec.

8. Effect

Selects a picture effect: Effect Off, Gray, Sepia, Purple, Blue, Green, Negative, Old Film, B&W Film, Posterize, Mono Posterize, Sketch, Conte, Mosaic, Emboss, Sharpen, Colored Pencil, Pencil, Gorgeous, Thin, High Contrast, Low Contrast, or Milky.

Preview Slide Close

Determines whether a preview stops when the device is closed: Stop Preview or Continue Preview.

Ready Sound

Selects a ready sound: Mute, Beep, Ready?, Cheese, Whisky, or Smile.

Shutter Sound

Selects a shutter sound: Sound 1–4.

***. Memory**

Selects the location for saved pictures: Int. Memory or Ext. Memory.

#. Help

Displays a help message.

Press  [Save] to save the camera options.

■ VIDEO CAMERA

Taking videos with your mobile device's built-in camera is as simple as choosing a subject, pointing the lens, and pressing a button.



- 1 Open the camera cover to enter Camera Mode.
- 2 If the device is closed, press the Navigation Key left to enter Video Mode. If the device is open, press .
- 3 Point the camera lens at your subject. You can check the framing through the main display screen.
- 4 Press  or the side camera button  to start recording video.
- 5 To stop recording, press  or .
- 6 The video will automatically be saved in the Video Album.

- You cannot place or receive calls while in Video Mode. All incoming voice calls will be forwarded to voice mail.

VIDEO MODE OPTIONS

When the device is open and in Video Mode, several camera options are available:

PREVIEW

Press  to preview saved videos.

FLASH

Press  to set the flash: Auto, Off, or On.

When the device is closed:

WHITE BALANCE

Press the Navigation Key left to adjust the white balance: Auto, Outside, Cloudy, Fluorescent, or Bulb.

BRIGHTNESS

Press the Navigation Key up/down to adjust the brightness. The current brightness level appears at the bottom of the screen.

ZOOM

Use the  and  buttons to change the magnification. The current zoom level appears on the right side of the screen.

When the device is open:***WHITE BALANCE***

Press  to adjust the white balance: Auto, Outside, Cloudy, Fluorescent, or Bulb.

BRIGHTNESS

Press the Navigation Key left/right to adjust the brightness. The current brightness level appears at the bottom of the screen.

ZOOM

Press the Navigation Key up/down to change the magnification. The current zoom level appears on the right side of the screen.

VIDEO MODE MENU

Press  [Menu] to bring up the menu in Video Mode:

1. Resolution

Sets the video resolution: 640×480, 320×240, or 176×144.

2. Recording Time

Sets the video recording time: Normal Video or Color Mail Video.

3. *White Balance*

Sets the white balance: Auto, Outside, Cloudy, Fluorescent, or Bulb.

4. *Flash*

Sets the flash: On While Recording, Off, or On.

5. *Quality*

Sets the video quality: High, Standard, or Economy.

6. *Camera Mode*

Sets the camera mode: Auto, Portrait, Landscape, Portrait_Landscape, or Night.

7. *Effect*

Selects a video effect: Effect Off, Gray, Sepia, Purple, Blue, Green, Negative, Old Film, B&W Film, Posterize, Mono Posterize, Sketch, Conte, Mosaic, Emboss, Sharpen, Colored Pencil, Pencil, Gorgeous, Thin, High Contrast, Low Contrast, or Milky.

8. *Movie Frame*

Sets the movie frame: No Photo Frame, Puzzle, Flower Frame, Action, Little Prince, Interview, Photo Frame 1, Photo Frame 2, Mount, Apple Man, Postcard, Superman, Primitive Man, Pig, James Dean, or Marilyn Monroe.

9. *Preview Slide Close*

Determines whether a preview stops when the device is closed: Stop Preview or Continue Preview.

0. *Video Sound*

Sets the video sound: Camcorder or Beep.

. *Memory

Sets the location for saved video: Int. Memory or Ext. Memory.

#. *Help*

Displays a help message.

Press  [Save] to save the video options.

■ PHOTO ALBUM

In Review Mode you can view all the pictures you have taken, store selected images in your mobile device, send pictures to the Online Album, delete images, and access additional picture options.



- 1 Press [Menu] .
- 2 In Review Mode, you can view all the pictures you have stored.
- 3 Select the picture you want to view with the Navigation Key and then press . To access options, press [Menu]:

- **Set as....:** Sets the selected picture as a screen: Background or Incoming Call.
- **Send Picture:** Sends a picture message containing the selected photo.
- **Change Order:** Selects the file sort method: Sort by Date, Sort by Size, Sort by Name, or Sort by User.
- **Transfer File:** Moves the selected photo to a different location: Album1, Album2, or External Memory.
- **Delete:** Deletes the current picture.
- **Edit/Rename:** Edits or renames the picture.
- **Protect/Hide:** Protects or hides the picture.
- **Select All:** Selects all pictures.
- **View Info:** Displays information on the selected picture.

■ VIDEO ALBUM

In Review Mode, you can view all the videos you have taken, store selected videos, send videos to the Online Album, delete videos, and access additional video options.



- 1 Press [Menu] .
- 2 In Review Mode, you can view all the videos you have stored.
- 3 Select the video you want to view with the Navigation Key and then press [Play]. To access options, press [Menu]:

- **Set as...:** Sets the selected video as a ring/screen: Background or Incoming Call.
- **Send Video:** Sends a picture message with the selected video attached.
- **Change Order:** Selects the file sort method: Sort by Date, Sort by Size, Sort by Name, or Sort by User.
- **Transfer File:** Moves the selected video to a different location: Album1, Album2, or External Memory.
- **Delete:** Deletes the current video.
- **Rename:** Renames the video.
- **Protect/Hide:** Protects or hides the video.
- **Select All:** Selects all videos.
- **View Info:** Displays information on the selected video.

■ SETTINGS

Allows you to set camera options.



- 1 Press  [Menu]  .
- 2 Press  [Save] to save the options.

■ PRINT PHOTOS

The Hero comes equipped with a 2-megapixel built-in camera that allows you to print images directly to a printer using PictBridge technology. A USB cable must be connected between your Hero device and the printer before any printing can occur.



- 1 Connect the USB cable between your mobile device and the USB connector on the printer (printer must support PictBridge technology).
- 2 Press  [Menu]  .
- 3 Read the message and press .

■ MEMORY INFO

Displays internal or external memory information.



- 1 Press [Menu] .
- 2 Select **Internal** or **External** with the Navigation Key.
- 3 The memory information appears.
- 4 To return to the previous page, press .

■ NEW TEXT MSG



To compose a new text message:

- 1 Press [Menu] .
- 2 The Message Contents field is highlighted. Type a new text message, then press .

- By pressing [Menu], you can choose from the following:
Copy Text: Saves the message text to the Quick Text list.
Paste Text: Pastes text from the Quick Text list.
Save Draft: Saves a draft of the message.

- 3 The Recipient field is highlighted. Type the recipient phone number and press .

- By pressing [To:], you can choose from the following:
Contacts: Brings up your contact list so you can select a number.
Call Log: Brings up the call log so you can select a number.
Groups: Brings up the groups list so you can add an entire group or a member of a specific group.
Save Draft: Saves a draft of the message.
Delete All Num: Deletes all recipient phone numbers.

- 4 To send the text message, press [Send].

■ TEXT MESSAGES



NEW TEXT MSG

Composes a new text message.

TIMED TEXT

Composes a timed text message, which will be sent at a specified time:

- 1 Press [Menu] .
- 2 The Message Contents field is highlighted. Type a new text message and press .
- 3 The Reserving Time field is highlighted. Use the keypad to enter the date, then press . Press to switch from A.M. to P.M. or vice versa, or press the Navigation Key right to leave it as-is. Use the keypad to enter a time, then press .
- 4 The Recipient field is highlighted. Type the recipient phone number and press .
- 5 To save the timed message, press [Resv].

INBOX

The Inbox holds received text messages.

❶ Press  [Menu]   .

❷ Select a message and press . The message is displayed. To delete a message, press  [Del].

Press  [Reply] to reply to the message. Press  [Fwd] to forward the message. Press  [Menu] to choose from the following:

DELETE MESSAGE

Deletes the current message.

SAVE MSG

Saves the current message in the Saved folder.

ADD CONTACT

Adds the message's sender to your contact list.

CALL

Calls the sender of the text message.

OUTBOX

Holds sent text messages or messages waiting to be sent.

- 1 Press  [Menu]   .
- 2 Select a message and press . The message is displayed. To delete a message, press  [Del].

Press  [Del] to delete the message. Press  [Write] to resend the message.

DRAFTS

Holds draft messages from the Inbox/Outbox.

- 1 Press  [Menu]   .
- 2 The draft message list displays. Select a message and press . The message is displayed. To delete a message, press  [Del].
- 3 To edit a message, press , then to send the text message, press  [Send].

TIMED TEXT BOX

Holds timed text messages.

- 1 Press  [Menu]   .
- 2 The timed text message list displays. To delete all messages, press  [Menu] then select Delete All Msgs.
- 3 Select a message and press . The message is displayed. To delete a message, press  [Del].
- 4 To edit a message, press , then to send the text message, press  [Send].

SAVED

Holds saved messages from the Inbox/Outbox.

- 1 Press  [Menu]   .
- 2 The saved message list displays. To delete all messages, press  [Menu] then select Delete All Msgs.
- 3 Select a message and press . The message is displayed. To delete a message, press  [Del].
- 4 To edit a message, press , then to send the text message, press  [Send].

■ NEW PIC MSG



To compose a new picture message:

- ① Press [Menu] .
- ② The Message field is highlighted. Type a message and push the Navigation Key down.
 - By pressing [Menu], you can choose from the following:
Emoticon: Inserts an emoticon.
Quick Text: Inserts text from the Quick Text list.
- ③ The Add field is highlighted. Insert an image or music.
 - By pressing [Add], you can choose from the following:
Add Photo: Attach a photo image.
Add Music: Attach a music file.
Add Video Rec: Attach a video file.
Delete Media: Delete an attached file.
- ④ The Recipient field is highlighted. Type the recipient phone number or email address.
 - By pressing [To:], you can choose from the following:
Enter Email: Enter an email address.
Search by Group: Find a phone number via the group list.
Contacts: Find a phone number in the contact list.
- ⑤ To send the picture message, press [Send].

■ PIC MESSAGES



COMPOSE

Composes a new picture message.

INBOX

The Inbox holds received picture messages.

- 1 Press [Menu] .
- 2 Select a message box: Received Msg, Saved (saved received messages), or Spam Msg (messages marked as spam).
- 3 Select a message and press to display it. To delete a message, press [Del]. By pressing [Menu], you can choose from the following:

- **Reply:** Replies to the message.
- **Details:** Displays the time the message was sent as well as its sender.
- **Forward:** Forwards the message.
- **Save Message:** Saves the message in Saved. (Received Msg and Spam Msg boxes only.)
- **Delete All:** Deletes all messages in the box.

OUTBOX

Holds sent picture messages or messages waiting to be sent.

- 1 Press  [Menu]   .
- 2 Select a message box: Sent Msg (sent messages) or Saved (saved sent messages).
- 3 Select a message and press . The message is displayed. To delete a message, press  [Delete].
- 4 To edit and resend the message, press  [Edit/Send]. By pressing  [Menu], you can choose from the following:

- **Delete:** Deletes the message.
- **Recipient:** Displays the time the message was sent as well as its recipient.
- **Save Message:** Saves the message in Saved.

DRAFTS

Holds draft messages from the Inbox/Outbox.

- 1 Press  [Menu]   .
- 2 The list of draft messages displays. To delete all messages, press  [Menu] and select **Delete All**.
- 3 Select a message and press  to display it. To delete a message, press  [Delete].
- 4 Once a message has been displayed, edit it and press  [Send] to send it.

MEDIA

Displays a list of saved media files.

- 1 Press  [Menu]   .
- 2 Select Photos, Music, or Movies to display the media files stored on your device.

SETTINGS

Manages messaging settings.

① Press  [Menu]   .

② Set the following picture message options:

- **Background:** Sets an image, photo, or color background, or no background.
- **Font Color:** Sets the font color.
- **Msg Rcv Alert:** Sets alert options for message received alerts:
 - Alarm Settings:** Select 1 Time, Every 2min, or Mute.
 - Alert Type:** Select Message Received or one of Bell 1–4..
 - Alert Volume:** Set the alert volume.
- **Spam Filter:** Sets spam protection options:
 - Block Number:** Add/delete numbers to be blocked.
 - Spam Setting:** Turn spam protection on or off.
- **Photo Size:** Sets photo resize options for picture messages: Reduced Size (640×480) or Original Size.
- **Msg Auto Save:** Turns message auto save on/off.

■ EMAIL

Takes you to the web email interface.



① Press  [Menu]   .

■ VOICE MAIL



To access voice mail:

Press [Menu] .

OR

In Idle Mode, press and hold .

To clear the message icon on the main display:

Press [Menu] .

■ SPAM INBOX

① Press  [Menu]  .

■ DELETE MSGS



- ❶ Press  [Menu]  .
- ❷ Enter your password (the default password is '0000').
- ❸ Select one of the message folders by pushing the Navigation Key up/down and pressing .

- Text Inbox
- Text Outbox
- Text Drafts
- Timed Text Box
- Text Saved
- Spam Msg
- Quick Text
- All Msgs

- ❹ Select Yes or No by pushing the Navigation Key left or right.
- ❺ Press  to delete all messages in the selected folder.

■ SETTINGS



MSG ALERT

Sets message alert options:

❶ Press [Menu] .

❷ Select one of the following options with the Navigation Key:

- **Alarm Ring Set:** Set the alarm ring type by pushing the Navigation Key left or right: 1 Time, Every 2min, or Mute.
- **Alarm Type:** Set the alarm tone type by pushing the Navigation Key left or right: Message Received or one of the Bells, 1–4.
- **Alarm Volume:** Set the alarm volume by pushing the Navigation Key left/right.
- **Busy Alarm:** To turn the alarm on/off, press .

❸ To save, press [Save].

QUICK TEXT

Allows you to edit the Quick Text list.

- ❶ Press  [Menu]    .
- ❷ To add a message, press  [New].
- ❸ Enter the message, then press  .
- ❹ The Quick Text list is displayed.
 - To delete a message, press  [Menu] and select **Delete**.
 - To enter a new message, press  [New].
- ❺ Select a message and press  . The selected message will appear. To delete the message, press  [Del]. To send the message, press  [Write].

SPAM MSG SETTINGS

Sets spam options:

RESTRICTED LIST

- ❶ Press  [Menu]    .
- ❷ To add a number to the spam list, press  [New].
- ❸ Enter the phone number, then press  [Done].
- ❹ The list of all spam phone numbers is displayed.
 - To delete a phone number, press  [Del].
 - To enter a new phone number, press  [New].
- ❺ Select a phone number and press . The selected phone number will appear. To edit it, press  [Edit], enter a new phone number, then press  to save the phone number.

RESTRICTED TEXT

- ❶ Press  [Menu]    .
- ❷ To enter a new phrase, press  [New].
- ❸ Enter the phrase, then press .
- ❹ The list of all restricted phrases is displayed.
 - To delete a phrase, press  [Del].
 - To enter a new phrase, press  [New].
- ❺ Select a phrase and press . The selected phrase appears. To edit it, press  [Edit] and enter a new phrase, then press  to save the phrase.

SPAM ON/OFF

- ❶ Press  [Menu]    .
- ❷ Press , turn Spam Blocking On/Off, then press .
- ❸ To save, press  [Save].

The contact list stores up to 1200 entries, each of which can be assigned to a group. Entries can be retrieved by name, phone number, or group.

■ NEW CONTACT

Adds a new entry.



- 1 To add a new entry to the contact list, press [Menu] .
- 2 To enter info, use the Navigation Key to select the appropriate field, press , enter the info, then press again.

- **Fields:** First Name, Last Name, Group, Phone Numbers (with Type), Image. Select **Add Info** to add fields.



NOTE

Refer to page 37 for details on entering letters, numbers, and symbols.

- 3 To save the entry, press [Save]. To return to the previous page, press .

■ CONTACT LIST

Displays all the entries stored in your contact list. You can find an entry quickly by entering all or part of a name.



- ❶ Press [Menu] .
- ❷ The list of names in your contact list is displayed alphabetically.
- ❸ Enter the name of the contact you are looking for and press , or scroll through alphabetically using the Navigation Key.
- ❹ All matching entries will be displayed. Highlight an entry and press [OK] to edit the entry. Press [Find] to search for a contact. Press [Menu] to select from the following options:
 - **Send Message:** Sends a text message to the selected contact.
 - **Set Speed Dial:** Adds the selected contact to the speed dial list.
 - **New Contact:** Creates a new contact.
 - **Delete:** Deletes the selected contact.
- ❺ To call the selected number, press .

GROUPS

Allows you to classify contacts into groups.



ADD NEW GROUP

- 1 Press [Menu] .
- 2 Press [Add].
- 3 Enter a new group name.
- 4 Press , select whether or not this should be a Secret Group, then press to save.

CHANGE GROUP NAME

- 1 Press [Menu] .
- 2 Use the Navigation Key to select an existing group name.
- 3 Press [Menu] and select **Edit**.
- 4 Enter a new group name. (Change other options for the group as desired.)
- 5 Press [Save] to save it.

DELETE GROUP

- 1 Press  [Menu]  .
- 2 Use the Navigation Key to select the group.
- 3 Press  [Menu] and select **Delete**.
- 4 Press , select **Yes**, then press  to delete.

CHANGE ORDER

- 1 Press  [Menu]  .
- 2 Press  [Menu] and select **Change Order**.
- 3 Select **Sort by Name** or **Sort by User**.
- 4 Press  to sort.

■ SPEED DIALS

In idle mode, you can place a call to a number stored in speed dial by pressing and holding the location number on the keypad. For a 2-digit location number, press the first number then press and hold the second number.



- ❶ Press [Menu] .
- ❷ To assign a phone number to a location, select the location and press .
 - If a phone number is already assigned to the location, press [Del], select **Yes**, then press to delete it, or press [Edit] to edit it.
- ❸ Select the desired contact with the Navigation Key and press .
- ❹ Select the phone number with the Navigation Key and press .



NOTE

If a phone number is set as Secret, you will have to enter the password.

■ CALL LOG

Displays information about all received and dialed calls.



ALL CALLS

- 1 Press [Menu] .
- 2 A list of the 40 most recent received and dialed calls displays. If a number is stored in your contact list, only the name appears. Otherwise, only the phone number appears.
- 3 To view details, press .



NOTE

Call details include type of call, date, time, and phone number.

- 4 Press to enter the selected number for dialing, or press [Del] to delete it. Press [Menu] to select from the following options:

- **Calling Time:** Displays past call times.
- **New Contact:** Stores the number in a new contact.
- **Update Contact:** Adds the number to an existing contact.
- **Contacts:** If the number is stored in a contact list entry, displays the entry.
- **Write Text Msg:** Sends a message to the selected number.
- **Delete All:** Deletes all call log entries.

INCOMING CALLS

- 1 Press  [Menu]   .
- 2 A list of the 20 most recent received calls displays.

OUTGOING CALLS

- 1 Press  [Menu]   .
- 2 A list of the 20 most recent dialed calls displays.

■ CALL TIMER

Checks the usage time and manages your calls within the limit you set. The 11 timers include Voice Sent Time, Voice Received Time, WWW Use Time, Data Sent Time, and Data Received Time:



LAST CALL

- ① Press [Menu] .
- ② The last call timers display.
- ③ To return to the previous page, press .

ALL CALLS

- ① Press [Menu] . The timers for all calls are displayed.
- ② To initialize the call timers, press [Menu] and select one of the following:

- **Reset Voice Snd:** Initializes sent voice call total.
- **Reset Voice Rcv:** Initializes received voice call total.
- **Reset WWW:** Initializes web usage total.
- **Reset Data Snd:** Initializes sent data total.
- **Reset Data Rcv:** Initializes received data total.
- **Reset All:** Initializes total for all calls.

- ③ To return to the previous page, press .

LIFETIME CALLS

- 1 Press  [Menu]   .
- 2 The call timers for all calls made on the device displays.
- 3 To return to the previous page, press .

■ SERVICE NUMBER

Gives access to service numbers.



- 1 Press [Menu] .
- 2 Select the desired number:

- **Information** (411)
- **Customer Care** (611)
- **Emergency** (911)

■ SYNC CONTACTS

Allows you to synchronize your contacts between your mobile device and your Helio online contact list.



① Press  [Menu]  .

② Select one of the following options using the Navigation Key:

- **Sync Contacts:** Syncs contacts with your online contact list.
- **Preview Sync:** Previews the actions that are to be taken during synchronization.
- **Username/Password:** Sets your username and password for your online contact list.
- **Help:** Displays a help message.

■ MY NUMBER

Displays and allows you to edit your information.



- 1 Press [Menu] .
- 2 Change your information as desired: First Name, Last Name, Birthday, Mobile Phone Number, Home Phone Number, Email Address, Home Address, Picture.
- 3 To save your information, press .

■ THE LOST SISTER



The player becomes Jack, the main character of the game, and goes to the front to rescue his kidnapped sister from the wicked wizard Pandemes. In a previous war, Jack killed Pandemes's two sisters—to exact his revenge, Pandemes has kidnapped Jack's sister and waits for Jack with his monsters in the dungeon's darkness. To rescue his sister, Jack must go to the dungeon for the final battle against Pandemes.

GAME FEATURES

- RPG game with 3D background
- You can level up by obtaining green gems hidden in the dungeon. As your level goes up, you can acquire special skills.
- Light and fog effects
- Background music and effects created with high quality MIDI

MAIN CHARACTERS

 Jack	 Zombie	 Bone Zombie	 Cleaver Zombie	 Shotgun Zombie
	 Soul Demon	 Orc	 Barbarian	 Pandemes

WEAPONS

				
Short Sword	Long Sword	Quarterstaff	Battleaxe	Damage Spell

SPECIAL ITEMS

- **Key:** Moves Jack on to the next stage.
- **Armor:** Refills Jack's energy when he is in a critical situation.
- **Double Damage:** Doubles the damage to an enemy for 10 seconds.
- **Damage Spell:** A magical attack from a long distance. You need to acquire an item to use this attack, and the number of times you can use it is limited.
- **Short Sword:** Jack's fundamental weapon.
- **Long Sword:** An upgraded form of the Short Sword.
- **Quarterstaff:** The weapon with the longest attack range.
- **Battleaxe:** The most powerful weapon Jack can use.
- **Gem:** Jack uses these to level up.

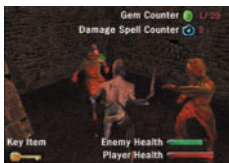
MAIN MENU

- **New Game:** Starts a new game from the first stage.
- **Load Game:** Loads a saved game.
- **Options:** Background music, sound effects, vibration, on/off menu.
- **Instruction:** Displays information on game controls, weapons, and items.
- **Quit:** Ends the game.



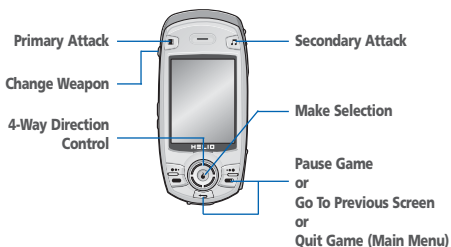
GAME SCREENS

- **Player Health:** Shows Jack's remaining energy. If the gauge runs out, Jack dies.
- **Enemy Health:** Shows the energy level of the enemy that is fighting against you.
- **Damage Spells:** Shows the number of magical attacks available for use.
- **Gem Counter:** Shows the number of gems Jack has obtained. If Jack collects 20 gems, the play goes up by one level.
- **Key:** An item Jack must obtain to finish the stage being played. If Jack obtains a key, it is displayed at the bottom of the screen.



Jack can level up by obtaining green gems hidden in the dungeon. Every time he collects 20 gems, he goes up one level. As Jack's level advances, he can attain various skills. However, there are many demons and zombies wandering around the gems.

GAME CONTROL KEYS



■ CALENDAR

Allows you to set event reminders.



- ① Press [Menu] .
- ② Use the Navigation Key to choose a date in the calendar. Press to toggle the display mode between the monthly, weekly, and daily views. Press [View] to view events on the selected date. Press [Menu] to select one of the following:

- **New Event:** Sets a new event on the selected date.
- **New Anniversary:** Sets a new anniversary on the selected date.
- **Delete Range:** Deletes events or anniversaries for a selected date range.
- **View List:** Displays a list of all events or anniversaries.
- **Alarm Settings:** Allows you to change alarm settings for events and anniversaries.
- **View Month:** Jumps to a specified month.

NEW EVENT

- ① Select Set Time (for a non-repeating event), Everyday, Every Week, Every Month, or Every Year.
- ② Set the following options:

PERIOD

(For repeating events.) Use the keypad to enter the date range.

TITLE

Use the keypad to enter a title.

START TIME

Use the keypad to set a start time and then press  to select A.M. or P.M.

END TIME

Use the keypad to set an end time and then press  to select A.M. or P.M.

CONTENTS

Use the keypad to enter a description for the event.

ALARM ON

Press the Navigation Key left/right to turn the alarm on/off.

ALARM TIME

Use the keypad to set an alarm time and then press  to select A.M. or P.M.

③ Press  [Save] to save the event.

NEW ANNIVERSARY

- ① Set the following options:

TITLE

Use the keypad to enter a title.

ANNIVERSARY

Use the keypad to enter the date of the anniversary.

ANNUALLY

Press  to set an annual reminder.

CONTENTS

Use the keypad to enter a description for the anniversary.

- ② Press  [Save] to save the anniversary.

■ WAKEUP CALL

Sets a wakeup call.



- 1 Press [Menu] .
- 2 Set the wakeup call options:

SET WAKEUP CALL

Press the Navigation Key left/right to select Off, Mon–Fri, Mon–Sat, or Everyday.

NO HOLIDAY

Press to select.

ALARM TIME

Use the keypad to set an alarm time and then press to select A.M. or P.M.

REPEAT

Press the Navigation Key left/right to select None, 2times, 3times, 4times, or 5times.

INTERVAL

Press the Navigation Key left/right to select 5min, 10min, or 15min.

RINGTONE

Set a ringtone by pushing the Navigation Key left/right.

VIBRATE

Press the Navigation Key left/right to select Ring Only, Vibrate Only, Silent, Vib Then Ring, or Ring + Vib.

SCREEN

Set a screen by pushing the Navigation Key left/right.

③ Press  [Save] to save the wakeup call.

■ ALARM



- 1 Press [Menu] .
- 2 To set a new alarm, press [New].
- 3 Select the alarm type:

- **10min:** Alarm goes off after 10 minutes.
- **20min:** Alarm goes off after 20 minutes.
- **30min:** Alarm goes off after 30 minutes.
- **1hour:** Alarm goes off after 1 hour.
- **Set Time:** Sets the alarm time.
- **Everyday:** Set the alarm to repeat every day.
- **Every Week:** Sets the alarm to repeat every week.
- **Every Month:** Sets the alarm to repeat every month.

- 4 For types 5–8, set the following options:

ALARM ON

Press the Navigation Key left/right to turn the alarm on/off.

EXCEPT HOLIDAY

Press to select.

DATE

Use the keypad to enter the date or repeat options (for repeating alarms).

ALARM TIME

Use the keypad to set an alarm time and then press  to select A.M. or P.M.

MEMO

Use the keypad to enter an alarm message.

- ⑤ Press  [Save] to save the alarm.
- ⑥ Press  [Menu] to select the following options:

- **Delete:** Deletes the selected alarm.
- **Delete All:** Deletes all alarms.
- **Alarm Settings:** Sets ringtone, vibrate, and screen options for alarms.

■ ANNIVERSARY



- 1 Press [Menu] .
- 2 To set a new anniversary, press [Add].
- 3 Set the following options:

DATE

Use the keypad to enter the date.

TITLE

Use the keypad to enter a title for the anniversary.

- 4 Press [Save] to save the anniversary.
- 5 To delete an anniversary, press [Del], select **Yes**, then press .

■ WORLD TIME

Displays the time and date in major cities around the world.



- 1 Press [Menu] .
- 2 Select a city with the Navigation Key.
- 3 The world map appears with the city and its date and time.



If Daylight Savings Time (DST) does not apply, the displayed time may be different from the actual time during DST. Press [DST] and set DST options to compensate.

- 4 To return to the previous page, press .

■ TIP CALCULATOR

Calculates gratuity for restaurant bills.



- 1 Press  [Menu]  .
- 2 Enter the total bill.
- 3 Enter the tip percentage.
- 4 Enter the number of ways to split the bill.
- 5 The total cost per person appears.
- 6 To reset all fields, press  [Reset].

■ CALCULATOR

A standard four-function calculator.



- ① Press [Menu] .
- ② Follow the instructions below to calculate $8 \times 6 \div 4 - 2.5$:

- Enter 8.
- Push the Navigation Key up ($\times$).
- Enter 6.
- Push the Navigation Key down ($\div$).
- Enter 4.
- Push the Navigation Key right ($-$).
- Enter 2, press to enter the decimal place, then enter 5.
- Press .
- The answer appears on the right side of the orange box below the calculation.

- ③ To clear the calculator, press [AC].



- To change the displayed number from positive (+) to negative (-) and vice versa, press .
- To view the calculation history, press [History].

■ VOICE RECORDER

Allows you to record reminder messages of up to four minutes (total).



- ① Press [Menu] .
- ② To record a new voice memo, press [Rec].
- ③ To stop recording a memo and save it, press [Save].
- ④ The list of all memos is displayed. Select a memo and press [Play] to play it back.
 - To delete a memo, press [Menu] and select **Delete**.
 - To delete all memos, press [Menu] and select **Delete All**.
 - To play all memos consecutively, press [Menu] and select **Continuous Play**.

■ STOP WATCH

Simultaneously times up to 20 different events.



- 1 Press [Menu] .
- 2 To measure a time period:
 - 1 To start the stop watch, press [Start].
 - 2 To pause it, press [Pause].
 - 3 Press [Resume] to resume timing, or [Reset] to reset the stop watch.
 - 4 To return to the previous page, press .
- 3 To time up to 20 events at once:
 - 1 To start, press [Start].
 - 2 To stop one time period and continue measuring another one, press [Save].
 - 3 Repeat for each event being timed.
 - 4 To stop the stop watch, press [Pause].
 - 5 To review the results, press [View].
 - 6 To return to the stop watch, press [Cancel].
 - 7 To reset the stop watch, press [Reset].

■ NOTEPAD

Allows you to compose and store reminders and notes. (Note that there is an 220-character limit.)



- ❶ Press [Menu] .
- ❷ To enter a new text memo, press [New] (refer to page 35 for details on entering letters, numbers, and symbols).
- ❸ Press [Save] to save the memo.
- ❹ The list of all memos is displayed.
 - To view a memo, select it and press .
 - To delete a memo, press [Del].
- ❺ When viewing a memo, press [Edit] to alter it.

■ VIDEO

Allows you to view the videos stored on your mobile device.



① Press  [Menu]  .

You can also press  in Idle Mode to access your videos.

To download videos from the Helio Store, press  [Menu]  .

■ MUSIC

Allows you to listen to the music stored on your mobile device.



❶ Press  [Menu]  .

You can also press  in Idle Mode to access your music.

To download music from the Helio Store, press 
[Menu]  .

■ MEMORY INFO

Displays internal or external memory information.



- 1 Press [Menu] .
- 2 Select **Internal** or **External** using the Navigation Key, then press . The memory information appears.
- 3 To return to the previous page, press .

■ SOUND

Sets options for rings, group rings, special effects, alerts, vibration, volume, and missed calls.



RINGS

Sets ring type, volume, ring/vibrate, and ring time for incoming calls:

① Press [Menu] .

② Set your ring options:

- **Ringtone:** Select the ringtone by pushing the Navigation Key left/right.
- **Volume:** Select the ring volume by pressing the Navigation Key left/right.
- **Vibrate:** Select Ring Only, Vibrate Only, Silent, Vib Then Ring, or Ring + Vib by pushing the Navigation Key left/right.
- **Ring:** Select the ring time by pushing the Navigation Key left/right: Continuously, For 5sec, For 10sec, or For 15sec.

③ To save, press [Save].

GROUP RINGS

Sets a ringtone for each contact group:

- 1 Press  [Menu]   .
- 2 Select a group.
- 3 Set the group ringtone by pushing the Navigation Key left/right.
- 4 To save, press  [Save].

ALERTS

Sets ringtones for alerts:

- 1 Press  [Menu]   .
- 2 Set your alert ring types:

- **Notice:** Set the ringtone for on-screen notices by pushing the Navigation Key left/right: Default, Clean, or None.
- **Call Connection:** Set the call connection ringtone by pushing the Navigation Key left/right: Connection 1, Connection 2, or None.
- **1-Min Call Timer:** Set the one-minute timer ringtone by pressing the Navigation Key left/right: On or None.
- **No Service:** Set the ringtone played when no service is available by pressing the Navigation Key left/right: Warning Tone 1, Warning Tone 2, Voice Announce, or None.
- **Battery Low:** Set the low battery ringtone by pressing the Navigation Key left/right: Warning Tone, Voice Announce, or None.

- 3 To save the options, press  [Save].

To mute all alerts, press  [Menu], then select **All Mute**.

VIBRATION

Sets the vibration style:

① Press  [Menu]   .

② Set your vibration style:

- Normal
- Increasing
- Decreasing
- Long->Short
- Short->Long

③ To save, press .

VOLUME

Controls the ring, call, effect, alert, alarm, message notice, game, and on/off volumes:

① Press  [Menu]   .

② Select your desired volumes:

- Ring
- Call
- Effect
- Alerts
- Alarm
- Msg
- Game
- On&Off

③ To save, press  [Save].

SOUND EFFECTS

Sets the sound effects for your device:

❶ Press  [Menu]   .

❷ Set your sound effects:

- **Slide Open:** Select the sound played when the device is opened: Default, Acoustic, Samurai, or None.
- **Slide Closed:** Select the sound played when the device is closed: Default, Acoustic, Samurai, or None.
- **Key Press:** Select the sound played when a key is pressed: VOX-A, VOX-B, None, or SFX.
- **Menu:** Set the menu select tone: Menu Change 1, Menu Change 2, or Mute.

❸ To save, press  [Save].

To mute all sound effects, press  [Menu], then select **All Mute**.

MISSED CALL

Sets options for missed call alerts:

❶ Press  [Menu]   .

❷ Set your missed call alert options:

- **Set Alert:** Select the alert mode by pressing the Navigation Key left/right: Every 2min, Once After 2min, or Mute.
- **Alert Type:** Select an alert tone by pressing the Navigation Key left/right: Alarm 1 or Missed Call Alert.
- **Alert Volume:** Select the alert volume by pressing the Navigation Key left/right.

❸ To save, press  [Save].

DOWNLOADS

Lists rings and bell rings you have downloaded.

RINGS

Press  [Menu]     .

BELL RINGS

Press  [Menu]     .

■ DISPLAY

Allows you to customize the display.



SCREENS

Sets the background images to display on the main screen.

MY SCREENS

① Press [Menu] .

② Select screen options:

- **Screen:** Select a screen.
- **Animated Sticker:** Select an animated sticker to appear on the screen.
- **Clock/Calendar:** Select a clock/calendar to display on the main screen: Small Clock, Medium Clock, Big Clock, Analog Clock 1–3, Calendar (Top), Calendar (Down), or None.
- **Soft Keys:** Turns on/off the soft key identifiers at the bottom of the screen.
- **Banner:** Turns a banner on/off and sets its text.
- **Banner Color:** Sets the banner color.

③ To preview the settings, press [Preview].

④ To save, press [Save].

WORLD TIME

- ① Press  [Menu]    .
- ② Select a city with the Navigation Key.
- ③ To preview the settings, press  [Preview].
- ④ To save, press .

ANNIVERSARY

- ① Press  [Menu]    .
- ② The list of anniversaries is displayed.
- ③ Select an anniversary with the Navigation Key. To preview, press  [Preview].
- ④ To save, press .

INCOMING CALL

Sets the image to display on the main screen when a call comes in.

- ① Press  [Menu]   .
- ② Select an image by pressing the Navigation Key left/right.
- ③ To preview, press  [Preview].
- ④ To save, press  [Save].

MENU THEME

Selects a display menu style:

- 1 Press  [Menu]   .
- 2 Select **Helio** or **Pantech** with the Navigation Key.
To preview, press  [Preview].
- 3 To save, press .

FONT

Selects the display font style:

- 1 Press  [Menu]   .
- 2 Select the desired font.
- 3 To save, press .

BACKLIGHT

Sets LCD and keypad backlight settings:

- 1 Press  [Menu]   .
- 2 Select one of the following options with the Navigation Key:
 - **Device Open:** LCD backlight timing when the device is open: Always On, 10sec Auto Off, 20sec Auto Off, or 30sec Auto Off.
 - **Device Closed:** LCD backlight timing when the device is closed: Always Off, 3sec Auto Off, 10sec Auto Off, or Dim Then Off.
 - **Dialpad:** Keypad backlight timing: Always On, 5sec Auto Off, 10sec Auto Off, 15sec Auto Off, or Always Off.
- 3 To save, press  [Save].

EXTERNAL KEYS

Configures the Navigation Key LED color:

① Press  [Menu]   .

② Select one of the following options with the Navigation Key:

- **Normal Usage:** Sky Blue, Purple, Red, Green, Blue, or Yellow Green.
- **Incoming Call:** Fantastic, Red/Blue, Normal, Rainbow, Tropical, or Cotton Candy.
- **Msg Received:** Fantastic, Red/Blue, Normal, Rainbow, Tropical, or Cotton Candy.
- **Music and Video:** Fantastic, Red/Blue, Normal, Rainbow, Tropical, or Cotton Candy.

③ To save, press  [Save].

NETWORK LIGHT

Sets an LED color for network indication:

① Press  [Menu]   .

② Select one of the following options with the Navigation Key:

- **In Service Color:** Sets the color displayed when the network is available: Red, Green, Blue, Yellow Green, Sky Blue, Purple, Rainbow, Tropical, Cotton Candy, Fantastic, or Red/Blue.
- **Interval:** None, 5sec, 10sec, 20sec, or 30sec.

③ To save, press  [Save].

DEVICE CLOSED

Sets options controlling the display when the device is closed:

- 1 Press  [Menu]   
- 2 Select one of the following options with the Navigation Key:

- **Display:** Selects the screen displayed when the device is closed: Clock (Power Save) or Top Screen.
- **Backlight On:** Sets whether the backlight comes on when the device is closed and a key is pressed.

- 3 To save, press  [Save].

DOWNLOADS

Displays VideoScreens and screens you have downloaded.

VIDEOSCREENS

Press  [Menu]    .

SCREENS

Press  [Menu]    .

■ CALL

Allows you to customize call options.



ANSWER CALL ON

Sets answering options:

- ❶ Press  [Menu]   .
- ❷ Select one of the following options with the Navigation Key:

- **Receive Call:** Select Slide Open, Open & Any Key, Open & Send Key, or Send Key Only.

- ❸ To save, press  [Save].

AUTO FUNCTIONS

Sets auto function options:

- 1 Press  [Menu]   .
- 2 Select one of the following options with the Navigation Key:

- **Auto Redial:** Automatically redials after a set time interval.
- **AutoRcvEarmicrophone:** If headset is connected, calls are automatically answered.
- **AutoRcvAfter 2sec:** After 2 seconds, calls are automatically answered.
- **Auto Area Code:** Automatically adds an area code. Enter the area code to add.

- 3 To save, press  [Save].

TTY

Turns TTY Mode on or off.

- 1 Press  [Menu]   .
- 2 Read the disclaimer and press .
- 3 Select a TTY setting with the Navigation Key:

- TTY Full
- TTY + Talk
- TTY + Hear
- TTY Off

- 4 To save, press .

■ NETWORK

Allows you to customize network options.



HELIO SETTINGS

Sets Helio network options:

- 1 Press [Menu] .
- 2 Enter your password (the default password is '0000').
- 3 Select the option you wish to change, press , edit the setting using the keypad, then press again:

- **Home URL:** Default is <http://home.helio.com>
- **Proxy:** Default is wap.helio.com

To reset to default settings, select **Reset** and press .

- 4 To save, press [Save].

NETWORK MODE

Sets network mode options:

- 1 Press [Menu] .
- 2 Select one of the following options:

- **Network Mode:** Select 1x Only or EV-DO Mode..
- **Rcv on Service:** Select RCV Allow or RCV Reject.

- 3 To save, press [Save].

■ DEVICE

Displays information about your device (memory info, software version, mobile number) and resets the device to default settings.



MEMORY INFO

Displays internal or external memory information.

- 1 Press [Menu] .
- 2 Select **Internal** or **External** and press .
- 3 The memory information appears.
- 4 To return to the previous page, press .

S/W VERSION

Displays the software version installed on your device.

- 1 Press [Menu] .
- 2 The software version and mobile number appear.
- 3 To return to the previous page, press .

MY NUMBER

Displays the mobile number for your device.

- 1 Press [Menu] .
- 2 Your mobile number appears.
- 3 To return to the previous page, press .

RESET

Resets the device to default settings or clears the contact list.

- ❶ Press  [Menu]   .
- ❷ Select **Delete Contacts** or **Reset Defaults** and press .
- ❸ Enter your password (the default password is '0000').
- ❹ When "Initialize?" appears on-screen, select **Yes** and press .



When you select **Yes**, your device will reboot and erase all contacts or reset all settings to factory defaults.

■ SECURITY

Prevents unauthorized use of your device.



PHONE LOCK

Prevents the device from being used without entering the password first.

- 1 Press [Menu] .
- 2 Enter your password (the default password is '0000').
- 3 Press to turn Autolock Mode on/off.

FUNCTION LOCK

Requires a password when accessing the camera, starting the web browser, making an outgoing call, making an international call, sending an outgoing message, accessing Helio music/video, or using external keys.

- 1 Press [Menu] .
- 2 Enter your password (the default password is '0000').
- 3 Press .

- ④ Select the function to be locked/unlocked with the Navigation Key, then press .
- To lock all functions, press  [Menu] and select **All Lock**.
 - To unlock all functions, press  [Menu] and select **All Unlock**.

- Camera
- WWW
- Outgoing Call
- Int'l Call
- Outgoing Msg
- Helio Video Access
- Helio Music Access
- Outside Key

- ⑤ To save, press  [Save].

INFO LOCK

Requires a password when sending your number, accessing the contact list, call history, inbox, outbox, or picture message boxes, recording / playing back audio, accessing your info, or accessing your memos.

- ① Press  [Menu]  .
- ② Enter your password (the default password is '0000').
- ③ Press .

- ④ Select the function to be locked/unlocked with the Navigation Key, then press .
- To lock all functions, press  [Menu] and select **All Lock**.
- To unlock all functions, press  [Menu] and select **All Unlock**.

- My Number Sending
- Contacts
- Call Log
- Inbox
- Outbox
- Media
- Record/Play
- My Info
- Notepad

- ⑤ To save, press  [Save].

SET PASSWORD

Sets the password for your device.

- ① Press  [Menu]  .
- ② Enter your password (the default password is '0000').
- ③ Press .
- ④ Enter your four-digit password.
- ⑤ Enter the new four-digit password.
- ⑥ When "Enter Again" is displayed, enter the new four-digit password again. The new password is saved.

■ LANGUAGE

Selects the language in which text is displayed on-screen.



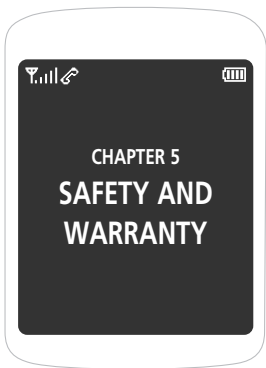
- ① Press [Menu] .
- ② Select either English or Korean.
- ③ To save, press .

■ AIRPLANE MODE

Airplane Mode allows you to use many of your device's features, such as games and voice recording, when you are on an airplane or in another area where making or receiving voice or data calls is prohibited. When your device is in Airplane Mode, it cannot make or receive any calls or access online information.



- 1 Press [Menu] .
- 2 Select **Yes** to turn Airplane Mode on, **No** to turn it off.
- 3 To save, press .



This chapter addresses the safety guidelines and precautions to follow when operating your device. Before operating your device, please be aware of all safety details.

This chapter also contains the terms and conditions of services and the warranty for your phone. Please review them thoroughly.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

SAFETY INFORMATION FOR FCC RF EXPOSURE

SAR INFORMATION

FCC HEARING-AID COMPATIBILITY (HAC) REGULATIONS FOR WIRELESS DEVICES

FDA CONSUMER UPDATE

PROTECT YOUR WARRANTY

12 MONTH LIMITED WARRANTY

**Read This Information Before Using Your
Handheld Portable Cellular Telephone****EXPOSURE TO RADIO FREQUENCY SIGNALS**

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) *
NCRP Report 86 (1986) *
ICNIRP (1996) *

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C951).

The design of your phone complies with the FCC guidelines (and those standards).

ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

1* : American National Standards Institute.

2* : National Council on Radiation protection and measurements.

3* : International Commission on Nonionizing Radiation Protection.

DRIVING SAFETY

Talking on the phone while driving is extremely dangerous and is illegal in some states. Remember, safety comes first. Check the laws and regulations on the use of phones in the areas where you drive. Always obey them.

Also, if using your phone while driving, please:

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions so require.

If you must use the phone while driving, please use one-touch, speed dialing, and auto answer modes.

An airbag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the airbag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.



WARNING: Failure to follow these instructions may lead to serious personal injury and possible property damage.

ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

PACEMAKERS

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers :

- ALWAYS keep the phone more than six inches from your pacemaker when the phone is turned on.
- Do not carry the phone in a breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

OTHER MEDICAL DEVICES

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in healthcare facilities when any regulations posted in these areas instruct you to do so. Hospitals or healthcare facilities may be using equipment that could be sensitive to external RF energy.

POSTED FACILITIES

Turn your phone OFF where posted notices so require.

OTHER SAFETY GUIDELINES

AIRCRAFT

FCC and Transport Canada Regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft.

BLASTING AREAS

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

POTENTIALLY EXPLOSIVE ATMOSPHERES

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle's engine.

PRECAUTIONS

Your Handheld Portable Telephone is a high quality piece of equipment. Before operating, read all instructions and cautionary markings on (1) AC Adaptor (2) Battery and (3) Product Using Battery.

- DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.
- DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using, lay down the unit to avoid possible damage due to instability.
- DO NOT expose this equipment to rain or spilled beverages.
- DO NOT use unauthorized accessories.
- DO NOT disassemble the phone or its accessories. If service or repair is required, return unit to an authorized Pantech cellular service center. If unit is disassembled, the risk of electric shock or fire may result.
- DO NOT short-circuit the battery terminals with metal items etc.



WARNING!

- This product contains a chemical known to the State of California to cause cancer.
- This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WARNING! READ THIS INFORMATION BEFORE USING**CAUTIONS**

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION

This device was tested for typical body-worn operations with the back of the phone kept 2.0 cm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 2.0 cm. separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, 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.



For more information about RF exposure, please visit the FCC website at www.fcc.gov.

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. 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 mobile phones 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. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below 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 wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. 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 phone when tested for use at the ear is 1.3 W/Kg and when worn on the body, as described in this user guide, is 0.6W/Kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The SAR testing for Body-worn operation was performed with a belt clip that provided a 20mm separation. The User's Manual indicates that any holsters/clips used with this device should contain no metallic components.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on PP4PN-E8300.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>.

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

On July 10, 2003, the U.S. Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless phones under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless phones be compatible with hearing-aids. The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together. A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.



In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This should provide the hearing aid user with “normal usage” while using their hearing aid with the particular wireless phone. “Normal usage” in this context is defined as a signal quality that is acceptable for normal operation.

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules. The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

For information about hearing aids and digital wireless phone

- FCC Hearing Aid Compatibility and Volume Control
<http://www.fcc.gov/cgb/dro/hearing.html>
- Gallaudet University, RERC
<http://tap.gallaudet.edu/DigWireless.KS/DigWireless.htm>
- Self Help for Hard of Hearing People Inc. [SHHH]
www.hearingloss.org/hat/TipsWirelessPhones.htm
- The Hearing Aid Compatibility FCC Order
http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-03-168A1.pdf



U.S. Food and Drug Administration - Center for Devices and Radiological Health Consumer Update on Wireless Phones

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function;

and

- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some inter-agency working group activities, as well. FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term “wireless phone” refers here to hand-held wireless phones with built-in antennas, often called “cell,” “mobile,” or “PCS” phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user’s head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person’s RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996.

An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues. FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones ?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers.

The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones
(<http://www.fda.gov/cdrh/phones/index.html>)
- Federal Communications Commission (FCC) RF Safety Program
(<http://www.fcc.gov/oet/rfsafety>)
- International Commission on Non-Ionizing Radiation Protection
(<http://www.icnirp.de>)
- World Health Organization (WHO) International EMF Project
(<http://www.who.int/emf>)
- National Radiological Protection Board (UK) (<http://www.nrpb.org.uk/>)

Read your Warranty carefully, with the special consideration to paragraph seven of the Limited Warranty for your unit.

“Warranty does not apply to... or to any product or part thereof which has suffered through alteration... mishandling, misuse, neglect or accident”.

Many companies are making look alike accessories and in some cases, promoting that their product is equal to or better than the Pantech product. Be careful. Some of these products may not be compatible to use with your Pantech product and may damage the unit or cause it to malfunction. If service is required on your unit and it is determined that a non-Pantech accessory has created the problem with your unit, the Warranty will not apply. In addition, if the unit has already suffered irreversible damage by reason of a non-compatible accessory, the Warranty will be voided. To protect your Warranty, use only compatible accessories which cannot damage or interfere with the functioning of your Pantech product.



PANTECH WIRELESS, INC.

11240 Warland Drive, Cypress, CA 90630 (800) 962-8622

Pantech Wireless, Inc. (the Company) warrants to the original retail purchaser of this Pantech handheld portable cellular telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) months period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The antenna, key pad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase.

This Warranty extends only to consumers who purchase the product in the United States or Canada and it is not transferable or assignable.

This Warranty does not apply to:

- (a) Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- (b) Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.
- (c) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;
- (d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- (e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- (f) Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna or for communications range or operation of the cellular system as a whole.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime phone number and/or fax number and complete description of the problem, transportation prepaid, to the Company by calling the number listed below or to the place of purchase for repair or replacement processing.

In addition, you may telephone us at (800) 962-8622, or email us at HandsetHelp@Pantech.com

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR AN SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states or provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

