

# USER MANUAL

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**6, SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES**

# 1.0 Understanding Your phone

This section outlines some key features of your phone



## 1.1 Features of Your Phone

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QSC6155, BMP

800MHz/1900MHz/AWS

Bluetooth 3.0

1.77" QQVGA LCD

Camera: 0.3M

Text (SMS) Messaging and Picture (MMS) Messaging

WAP (Wireless Application Protocol) Internet Browser

Speakerphone

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Note: The phone supports the wireless headset, handsfree, file transfer, and object push profiles for Bluetooth wireless technology.

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## 1.2 Side views of Your Phone

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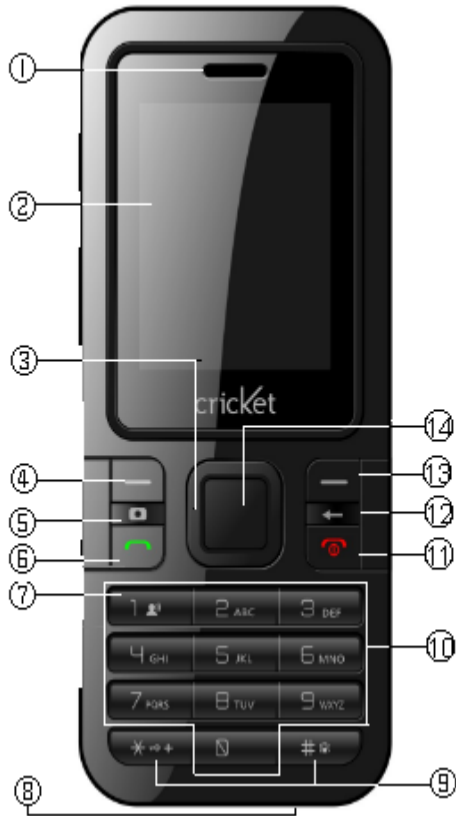


1. **Volume Key** – In Standby mode, lets you adjust the ring volume. When receiving a call, mutes the ringer. During a call, lets you adjust the voice volume. In Menu mode, lets you scroll through the phone menu options.

2. **Headset Connector** – Used to connect hands-free headsets to your phone

## 1.3 Front View of Your Phone

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1. **Earpiece** – Lets you hear ringing and alert tones, alarm tones and the other parties to calls

2. **Display** – Indicates the status of your phone, including numbers dialed, feature and function screens, status icons, message indicators and contents, signal strength, and so on.

3. **Navigation key** – In standby mode, launches selected functions or applications. In Menu mode, lets you scroll through the phone menu option.

4. **Left Soft Key** – Used to navigate through menus and applications and to select the choice indicated at the bottom left corner of the Display

5. **Camera Key** – Lets you speed launch camera In standby mode ,

6. **Send Key** – Lets you place or receive a call. In standby mode, press the key once to access the recent call log.

7. **Voicemail Key** – Lets you speed dial your Voicemail account to review your voice messages.

8. **Microphone** – Lets the other caller hear you clearly when you are speaking to them.

9. **Special Function Keys** – Enter special characters. Perform various functions.

10. **Alpha-numeric Keys** – Use these keys to enter numbers, letters, and characters.

11. **End Key** – Ends a call. If you press and hold the End key, the power goes On or Off. When you receive an incoming call, press to send the call to voicemail.

12. **Back Key** – Lets you cancel and the upper level directory.

13. **Right Soft Key** – Used to navigate through menus and applications and to select the choice indicated at the bottom right corner of the main display.

14. **OK Key** – In Standby mode, launches the Main Menu. Pressing when navigating through a menu accepts the highlighted option.

## 1.4 Back View of Your Phone

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|                 |
|-----------------|
| 1. Camera       |
| 2. Speaker      |
| 3. Micro-USB    |
| 4. T-flash card |

## 2.0 Getting Started

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This section explains how to install, remove, and charge the battery for your

### 2.1 Install the Battery

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Note: Your phone comes packaged with a partially charged rechargeable standard Li-Ion Battery and travel adapter.

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### 2.2 Battery Cover

---

Remove the battery cover to access the battery

To remove the battery cover, slide the battery cover down and lift it away.

To replace the battery cover, press the top end of the battery cover down lightly, and slide it over the battery until it clicks into place.


### 2.3 Install the Battery

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Insert the top end of the battery first, matching the gold contacts on the inside of the battery to those on the phone, then press the bottom of the battery down into the phone until it slips into place.

### 2.4 Remove the Battery

---

1. Before removing the battery, turn the phone off, if necessary. To turn the phone off, Press and hold the  Key.
  2. Lift the end of the battery up and away from the phone and slide the battery up and out of the phone.
-



## 2.5 Charging the Battery

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Your phone is powered by a rechargeable standard Li-Ion battery.

Use of other accessories may invalidate your warranty and may cause damage.

Use the Travel Adapter

The travel adapter included with your phone is a convenient, light-weight charger that rapidly charges your phone from any 110/220 VAC outlet

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**Important!:** For connection to an electrical supply not located in North America, you must use an adapter of the proper configuration for the power outlet. Use of the wrong adapter could damage your phone and void your warranty.

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1. Plug the large end of the Travel Adapter into a standard 110 VAC or 220 VAC wall outlet
  2. Insert the small end of the Travel Adapter into the charger/accessory connector on the side of your phone. You must unplug the adapter before removing the battery from the phone during charging to avoid damage.
-

## 3. Essential Topics

### 3.1 Communication Control Keys

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The 'Calling' key is used for making a call (after a number has been entered); or for viewing recent call records.

The 'End' key is used for ending a call (during dialing and communication state), or for exiting menu under menu state to return to standby menu. Pressing and holding this key switch on or off the phone.

### 3.2 Functional Keys and Soft Keys

---

Direction keys of up, down, left and right direction are used for browsing menus, lists, options or content compiled.

Under standby state, the up-direction key is used as shortcut key for Messaging; the down-direction key is used as shortcut key for Browser; the left/right-direction key is used as shortcut key for slip page. Under standby state, the left soft key is a shortcut key for accessing Menu and the right soft key is a shortcut key for Contacts. The functions of the two soft keys under other states are closely related to the phone's current state.

Under standby state, you can press and hold the key '#' to switch between Vibrate and general mode.

### 3.3 Standard keypad

---

Keys from '0' to '9', and key '\*' and '#' are used for dialing, inputting password, English letters, symbols etc and inputting Spanish.

■ Note: After the phone's standby interface maintains for period of time (time length is set by the user), the phone will turn off the backlight of the screen for the purpose of power saving. If the backlight of the screen goes out, you can press any key on the phone's keypad to turn on the backlight immediately.

### 3.4 Language and input methods

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Languages supported by this phone are listed under the path [Settings]- [Phone] - [Language].

This handset provides input methods as Spanish, English, Numbers and accustomed symbols input. Under editing status, you can press the key '#' to switch between input methods and press the key '\* ' to switch to symbol. For detailed operations please refer to relevant chapters of "Operation of Input Methods".

### **3.5 Short message alert modes**

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You should choose refer to the path:

[Profiles]-[choose one mode]-[Personalize]-[Message alert tone].

### **3.6 Call alert modes**

---

This handset has ten alert modes of Ring. You should choose refer to the path:  
[Profiles]-[choose one mode]-[Personalize]

### **3.7 Find contacts**

---

This handset provides a way to search for phone number by letters of a name. Under the contact name list (press the key under main menu to get in), after inputting the letters of a name to be searched for correctly, the screen will display all the fit records.

## **4. Basic operations**

### **4.1 Switching on**

---

Pressing and holding the 'power on/off' key in the standby state may switch on the phone. It will automatically search the network if the phone has no password protection. Your phone remains in a searching state if it fails to find the available network system.

If a password for the phone is required after it is switched on, please input the correct one

### **4.2 Switching off**

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To switch off the phone, please press and hold the 'on/off' key for 3 seconds and more in the standby state.

Note: If you switch off the phone directly by taking off the battery, some information to be stored in the phone may possibly get lost, which may cause inconvenience.

### **4.3 Making a call**

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Under standby state, input number directly via the keypad. Then press the 'Calling' key to make the call.

### **4.4 Adjusting the volume of earpiece**

---

During a conversation, you may press the up and down-direction key to adjust the volume of earpiece.

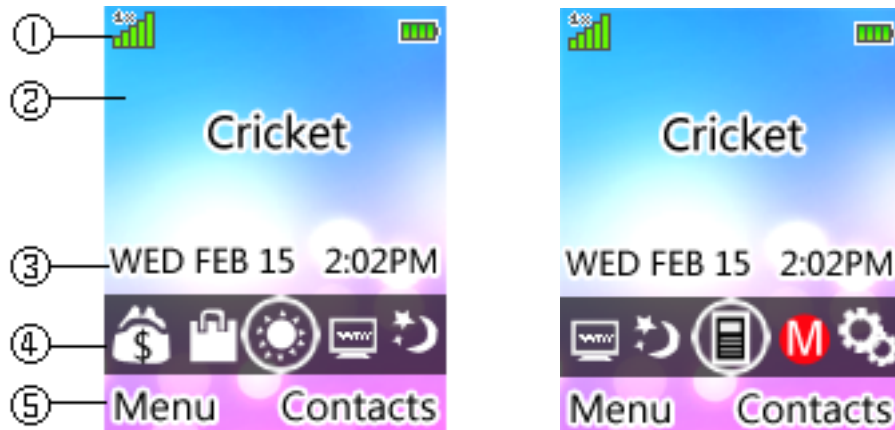
### **4.5 Answering a call**

---

When a call is incoming, the phone will prompt you according to the incoming call prompt mode you have set. To answer a call, press the 'Call control' key to answer the call directly or any key ( If 'Any Key Answer' is set on) to answer. To reject a call, press the 'on/off' key and the other party will hear a busy tone.

# 5. Using the menu

## 5.0.1 My Home Screen



1. Icons that indicate phone and net work status.
2. The center of display shows information such as call progress information, messages , and photos.
3. Main Clock shows the day, date, and time.
4. Quick Access Menu contains Widgets that launch phone applications. Press the OK key to launch the highlighted Widget.

- Personalize
- My Account
- Storefront
- Weather
- Weblinks
- Horoscope
- News
- Mocospa

5. Current soft key functions.  
The sample screen shows that pressing the Left (Menu) soft key launches the Main menu, and pressing the Right (Contacts) soft key launch the Contacts Find screen.

## 5.0.2 Activating Your Phone

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Contact your wireless Carrier and follow their instructions for obtaining service, if necessary.

### **5.0.3 Enter the menu**

---

Under the standby state, press the middle of the navigation key to access the main menu of the phone. Under the main menu interface, press any key to access the corresponding 'Menu option list'.

The main menu have total 9 options, all menus of the phone have the function of text prompt for corresponding function. Each set of menu is further divided into multi-item sub-menu. Menu functions may let you set, check or change the phone's various functional settings to meet your personal requirements. Please refer to the following 'Menu option list' for selection of the functions you require.

Press the direction keys to select from the menu. Press OK key or left soft key to confirm or to enter the sub-menu list of the selected menu. Then press up and down-direction key to select and press the left soft key to confirm or enter into the lower-level menu.

Press the "Back" key to return to higher-level menu. Press the 'on/off' key to exit the menu directly and return to the standby screen.

In editing state, the "Back" key has deleting function. Press it once to delete one character and hold it to delete all the input characters.

In options, 'On' or 'Activate' is to enable corresponding function and 'Off' or 'Cancel' is to disable corresponding function.

### **5.0.4 Navigate the menus**

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The standby screen menu has five options, Menu, Contacts, Messages and Browser and the 3<sup>rd</sup> ISC. Press the Navigation key to enter the listed menus.

## 5.1 Recent calls

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Call History can be accessed from the menu screen by selecting the Call History icon from the main menu.

### 5.1.1 Missed calls

---

If there are missed calls, you can view the detailed information of the missed calls in the 'missed calls' menu. Each record contains the number (and the contact name if number is already in the phonebook), date, time etc. Press the up and down-navigation key to view the information of other missed calls. Press the 'Call control' key to dial the selected number and press the right soft key to return to higher-level menu. Missed calls are divided into the following two situations:

1. If the number is not stored in the phone, the phone number will be displayed in the missed call list. Select the number and press the left soft/menu key to access the sub-menu of this missed call, which has the following 5 items:
  - >Delete: Delete this missed call number record.
  - >Save to Contacts
  - >Dial
  - >Send message: Send text message /MMS message to this missed call number.
2. If this number is already stored in the phone, the caller's name will be displayed in the missed call list.

### 5.1.2 Received calls

---

The phone saves the 20 most recently received calls automatically. Functional operation and display mode is the same as those of missed calls.

### 5.1.3 Dialed calls

---

The phone saves the 20 most recently dialed calls automatically. Functional operation and display mode is the same as those of missed calls.

## **5.1.4 Delete log**

---

Delete Missed Calls: Delete all records of missed calls.

Delete Received Calls: Delete all records of received calls.

Delete Dialed Calls: Delete all records of dialed calls.

Delete All: Delete all records of recent calls.

## **5.1.5 Call time**

---

Last Call Time

Total Dialed: Total of all dialed calls time since the timer was reset last time.

Total Received: Total of all received calls time since the timer was reset last time.

Total Call Time

Total Life Time

Reset All Time



## 5.2 Messages

---

Messaging is a network service. You may be required to subscribe to the service from your network operator prior to sending and receiving text messages.

A message is sent to the messages center of the network, then to the targeted user by the network. If the targeted user's phone is off or out of network area, the network will store the message temporarily.

When the phone receives a new text message, you will be prompted according to setting and the Unread Messages icon will appear at the top of the main screen to indicate unread text message.

### 5.2.1 To open and read an incoming message

---

1. Select the Messages Icon, then
2. Select the type of Message
  - a. Select Text Messaging (for simple text messages, up to 515 characters), then select Inbox
  - b. Select Picture Messaging (for attached, multimedia files (photos, audio, etc), then select Inbox

#### 5.2.2.1 New text Message (SMS)

---

You can create a text message in this menu. Every text message has a capacity of 515 characters. To create a new text message

1. Select Messages icon
2. Select Text Messaging
3. Select New Text Message
4. Use the key pad and type your message

Once the text has been entered, the following options are available, by pressing the left soft key.

>Send to: send text message

>Insert:

1. Insert Contact info: Insert contact number.
2. Insert text template: Insert common phrase in the text message. It provides you with 12 common phrases.

>Sending Options: Set delivery priority, delivery report, immediate/schedule delivery

>Text Entry: Select input method (see Text Input Method section)

>Save to Drafts: Save to Draftboxes.

Cancel Message: Return to information list interface

### **5.2.2.2 Voice Mail**

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By selecting the Voice Mail menu, the phone will automatically access the Voice Mail service. The Voice Mail service can also be accessed by holding the “1” key in standby mode.

### **5.2.2.3 Inbox**

---

The Inbox is used for reading text messages received. In the inbox, the phone can store up to 50 text messages. You may press up and down-navigation key to browse the message list. In the message Read mode, the following options are available.

1. Reply: Reply to the text message you are currently reading.
2. Reply with Content: Reply with the text message you are currently reading and can re-edit it ;
3. Delete: Delete the text message you are currently reading.
4. Call: Call current text message’s number;
5. Forward: Forward the text message you are currently reading to others.
6. Lock: When in locked mode, message cannot be deleted.
7. Use Number: use current selected phone number;
8. Delete Multiple: Delete multiple items.
9. Clean up Message: Delete all inbox messages.
10. New Text Message: Create a new text message.

### **5.2.2.4 Outbox**

---

This feature is used to store sent and failed messages. In the message Read mode, the following options are available.

1. Send: Send the message currently being read.
2. Forward: Forward the message currently being read (it can be edited).
3. Delete: Delete the message currently being read.
4. Delete Multiple: Delete multiple items.
5. Clean up Message: Delete all Outbox messages.
6. New Text Message: Create a new text message.

### **5.2.2.5 Sentbox**

---

The Sentbox is used for storing the text messages you have sent and selected the Save and Send option in the Send to menu.

1. Delete: Delete the message currently being read.
2. Delete Multiple: Delete multiple items.
3. Clean up Message: Delete all Outbox messages.
4. New Text Message: Create a new text message.

### **5.2.2.6 Draftbox**

---

After editing a new text message, choose “Save”. The message will be saved into the draft box.

1. Delete: Delete the message currently being read.
2. Delete Multiple: Delete multiple items.
3. Clean up Message: Delete all Outbox messages.
4. New Text Message: Create a new text message.

### **5.2.2.7 Template**

---

There are 12 common short phrases stored in the phone. You can add, then edit or delete your own common phrases.

### **5.2.2.8 Deferred**

---

Lists messages that have been deferred sending.

### **5.2.2.9 Conversation**

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1. Scroll to the message sender you want.

When a message sender is highlighted, you see the date, time, status and priority of the last message you received from the sender.

2. Press confirmation key to select the highlighted sender.

You see a partial view of the last message you received from the sender, above that is a partial view of the previous message.

3. Press confirmation key to open and view a highlighted message.

Scroll down to the entry area at the bottom of the screen to enter a reply, press send to send the reply.

4. Press “on/off” key to return to the home screen.

## 5.2.2.10 Settings

---

Auto Delete: On/Off

Memory Status: Displays the amount of memory being used for Contacts and text messages.

Signature: Set signature information.

Callback Number

CMAS Alert: Set Commercial mobile alert system emergency alert.

## 5.2.2.11 Delete

---

ALL: Delete all text messages stored in the outbox, inbox, sentbox, Draftbox, Voice Mail.

Inbox: Delete all text messages in the inbox in the phone.

Outbox: Delete all text messages stored in the outbox.

Sentbox: Delete all text messages in the sentbox in the phone.

Draftbox: Delete all text messages in the draftbox in the phone.

Voice Mail: Delete all messages in voicemail.

## 5.2.3 Picture Messaging (MMS)

---

Your cell phone can also send and receive MMS. This means you can send messages that contain photos, sounds, and text through a MMS service.

When sending a MMS message, the receiver must be using a MMS compatible cell phone in order for them to view your message.

Note: This feature can only be used with a network provider or service that supports MMS. MMS messages can only be received and viewed by devices with MMS compatibility or e-mail features. Please contact your local network operator for setting up MMS messaging.

### 5.2.3.1 Create a Picture Message (MMS)

---

To create a Picture Message

1. Select Messages icon
2. Select Picture Messaging
3. Select Create Picture Messaging

Within Create Picture Messaging, you can enter the following fields:

- i. Receiver: Set the number or e-mail address of the receiver.
- ii. Edit Content: Edit the content of the MMS. Press "Edit" to enter the following options.

Insert: You can insert images, sounds or other elements using the cell phone or T-FLASH.

Preview: Preview the inserted multimedia elements.

Add: You can add a new page, theme, number to CC, number to BCC, or Slideshow Time: Set the time when the images change in the previewed multimedia message.

Slide timing: You can edit slide time;

4. Press the Left Soft key for the options to Send, Add, Save as draft, Save as Template.

### **5.2.3.2 Inbox**

---

This menu allows you to review your received MMS messages.

Open: View the content of a MMS message.

Reply: Reply to the sender with a MMS, text, or e-mail message.

Forward: Forward the selected MMS message to another person.

Delete: Delete the current MMS message.

Delete All: Delete all the MMS messages in the Inbox.

Lock/Unlock: When in locked mode, message cannot be deleted.

### **5.2.3.3 Outbox**

---

MMS messages that failed to send or are being sent are stored in the Outbox. The following operations can be performed on the messages in the Outbox:

Resend: Resend the selected MMS message.

Delete: Delete the current MMS message.

Delete All: Delete all the MMS messages in the outbox.

Lock/Unlock: When in locked mode, message cannot be deleted.

### **5.2.3.4 Drafts**

---

MMS messages can be optionally stored in Drafts after being edited. The following operations can be performed on messages in Drafts:

Forward: Forward the selected message.

Delete: Delete the current MMS message.

Delete All: Delete all the MMS messages in the Drafts.

Lock/Unlock: When in locked mode, message cannot be deleted.

### **5.2.3.5 Sent**

---

MMS messages there were successfully sent are stored in Sent. The following operations can be performed on messages in Sent

Send Again: Resend the selected MMS message.

Forward: Forward the selected message.

Delete: Delete the current MMS message.

Delete All: Delete all the MMS messages in the Inbox.

Lock/Unlock: When in locked mode, message cannot be deleted.

### **5.2.3.6 Templates**

---

Edited MMS messages can be stored in Templates.

### **5.2.3.7 Settings**

---

This menu allows you to make the following settings to the configuration for sending and receiving messages.

1. Profile: Select a USCC Primary or USCC Secondary Network.
2. Send:
  - 2.1 Deliver Report: Set the deliver Report to ON or OFF.
  - 2.2 Save sent items: Set the save sent items to ON or OFF.
  - 2.3 Priority: Select a low, Normal or high the priority.
  - 2.4 Validity period: Set the validity period as Maximum, 1 week, 2 days, 1 day, 12 hours, 1 hours;
  - 2.5 Delivery time: Set the delivery time as Immediate, 1 hour, 3 hours, 6 hours, or 12 hours.
  - 2.6 Auto-deletion: Set the auto deletion to ON or OFF.
  - 2.7 Message class: Set to Personal, Auto, Advertisement or Information the Message class.
  - 2.8 Retry times: You can edit retry time ( 0-3).
3. Receive:
  - 3.1 Send Delivery Report: Set the Send Delivery Report to ON or OFF.
  - 3.2 Retrieval Mode: Set the retrieval mode as automatic or manual.
4. Edit Settings:
  - 4.1 Signature: Set to ON or OFF the signature.
  - 4.2 Slide Time: Set the switch time when previewing MMS message slideshows to 2 seconds, 5 seconds, 8 seconds, or 10 seconds.
5. View Mode: Set the preview time to manual or automatic.
6. Memory Status: Display the use rate and storage space of received and sent MMS messages.
7. Restore default: Restore settings to their defaults.
8. Save Picture Messages: Select the storage location as internal memory card or cell phone.
9. Version : Display the MMS version.

## **5.3 Contacts**

---

### **5.3.0.1 To enter a contact**

---

1. From the Main Menu select the Contacts Icon
2. Select Create New Contact
3. Enter the contact information in the various fields
4. Select Save to store the contact information

### **5.3.0.2 To dial from your contacts list**

---

1. From the Main Menu or Standby screen select the Contacts Icon
  2. Select Contact List
  3. Select the contact
  4. Highlight the contact's phone number you would like to dial
  5. Press Answer/Send key to dial the phone number
- 
-

---

---

**In the Contacts menu from the Menu screen the following options are available:**

---

---

### **5.3.1 Contact list**

---

Display all contacts.

### **5.3.2 Create New Contacts**

---

Allows the user to create new contacts in the contract book

### **5.3.3 Group**

---

You can set 10 different groups.

### **5.3.4 Set Speed Dial**

---

Enables the user to assign speed dial keys to a phone number in the contact list. Speed dial number 1 is reserved for voice mail; 2 through 9 can be set by the user.

### **5.3.5 Memory info**

---

Display the memory status of the phonebook in the phone.



## 5.4 Multimedia

---

Multimedia features can be accessed by selecting the Multimedia Icon.

### 5.4.1 Audio Player

---

The music player is provided for you to play all music file types stored on the cell phone or storage card. Supported music file formats include: MP3, MIDI, AMR, AAC, WAV, and QCP.

The music player interface icons are sequentially: Previous, Pause, Play, Stop, and Next. You can move the cursor using the left and right keypad and then press the “OK” key to perform an operation.

Press the left keypad to enter to options. The functions for the “Options” provided are as follows:

- Hide Audio player: Lets you back to audio menu while the music playing
- Add To play List: Lets you add current music to play list.
- Listen By Bluetooth: Lets you hear the music from BT handsfree device if connected,
- Send: Lets you send to other device by bluetooth
- Set To: You will set current playing music to ringtone.
- Manager: Lets you delete current music
- File Attributes: Lets you view the file detail
- Play Mode: You may set Repeat and Random to on/off

Note: When adding new music to the phone, select “Update Playlist” at the first “Option” screen.)

When the Audio player is active, the buttons on the left side of the phone provide Rewind/Previous Selection, Pause/Play and Forward/next Selection choices.

### 5.4.2 Camera

---

The camera is also accessible within this menu screen. See the section on Camera for further details.

To activate the camera (from the standby mode) press the Camera key at the left keyboard of the phone.

The camera can also be accessed from the menu screen by selecting the Camera Icon. The camera can be accessed in either of three ways: simply by pressing the button on the left of the phone, thru the main menu or thru the multimedia menu. Once you are in the camera interface, you can use this feature to take pictures as you wish.

Select “Camera” to enter the interface.

Note: Please follow local laws and regulations when using this cell phone to take pictures.

## 5.4.3 Recorder

---

This feature allows the recording of voice through the phone's microphone. The files will be stored in the phone's memory and the size of the file depends upon the amount of memory available.

Standard functions in this feature are:

- Record
- Play
- Pause
- Stop
- Rewind
- Fast Forward

Note: Please obey all applicable laws when recording conversations.

## 5.4.4 Gallery

---

This phone provides memory space for use by the user. SD Micro cards (of optional capacity) are also supported. You can use these features to easily manage the directories and files of all forms stored on the cell phone or SD Micro card.

1. Enter Gallery
2. Go to "Phone" (or "Card" if available)
3. Select Open: Use this function to enter the root directory of the memory. Default system directories, created data directories, and account files will be listed at the root directory (the root directory will only contain system folders the first time the phone is turned on or if the user has yet to create any directories).
4. Or click "Options" to access the following operations:
  - Manage: The following actions can be performed on the files listed: copy, move, delete, rename, and view properties. Add Option in the Manage menu:
    - Mark
    - New Directory
    - Memory Status: Display available space and total capacity.

## 5.5 Browser

---

To access the Internet, Select WAP Icon from the main menu.

This feature allows your phone to browse the internet.

Home Page: A home page can be saved with each mode. When using WAP to browse, the home page for this mode will first be accessed.

Enter URL: Enter the URL for the website to be connected.

Search: Highlight to select a search engine to perform searches, then enter text criteria To search on and Enter key search words.

History: You can review the latest accessed web pages.

Bookmarks: Multiple bookmarks can be created. Enter the Options menu and you can perform the following operations on Bookmarks:

Open: Log in to the selected web address.

Add bookmark: Add a new bookmark.

Delete bookmark: Delete the selected bookmark.

Delete all bookmarks: Delete all the bookmarks.

Edit bookmark: Edit the name and web address of the selected bookmark.

Lock bookmark: Lock the bookmark.

Details: View the details on the selected bookmark.

Reset: Restore default settings.

- Push Box: Store information on messages to notify the user about WAP site messages.
- Save web pages: Use to save a page for reviewing the web page later.
- Advanced Options: Advanced options are primarily used to configure certain internet parameters and information.
- About: Display browser and platform version numbers.
- Exit Browser: Exit the browser and return to the menu interface.

## 5.6 Games & Apps

---

### Easyedge

This phone provides access to the BREW™ (binary runtime environment for wireless) catalogue downloading feature. The BREW Shop lets users browse the carrier's Application Download Server to see what applications are available for purchase or trial.

From the main menu screen, select the Download Icon.

Within the Download menu, there are two options: brew and My apps feature.

Within the Downloads, you can select Browse catalog or Search.

Within the Settings menu, you can select Order Apps, Move Apps, Manage Apps, Main Menu View, Screen Savers or View Log.

## 5.7 Tools & Utilities

---

Select the Tools & Utilities Icon from the main menu, and then select Tools or Utilities.

### 5.7.1 Alarm

---

You may set up to 6 alarms.

1. Press the up and down-navigation key in the tools main menu and select Alarm.
2. Press the up and down-navigation key to select one of the alarms and press the left soft key to access the alarm setting.
3. Press the left and right-navigation key in the alarm clock setting interface to select alarm clock setting content. You may set the alarm clock using State (On/Off), Time, Mode and Prompt.
4. The AM/PM is set by pressing the center of the navigation keys.
5. When you have selected and set each item, press the up and down-navigation key to select the next line; when you have selected time, you can input the time directly.

### 5.7.2 Bluetooth

---

Please See 5.8

### 5.7.3 Calendar

---

You can view the current date or scroll the calendar to view other months.

You can also view weekly or daily calendar entries, by going to:

1. Select "Option"
2. Select Week View or Day View

### 5.7.4 Schedule

---

You may schedule an event into the calendar, with date, time and an alarm to notify you of that event, by going to:

1. Scrolling to a date,
2. Select "Option"
3. Select "Make a note"

- a. Type of event: Meeting, Birthday, Memo, etc.
- b. Entering Subject, Location, Time, etc
- c. Repeat, Alarm, Alarm Date
- d. Done
- e. Save

## 5.7.5 Notes

---

Lets you create, edit, delete, mark, note.

1. At the UI of new notes, the above textbox used for input content of note, the below info item used for modify mark and types of notes, when under unmark mode, use Enter button to switch. when under mark mode, use left/right key to modify the type of note, use up/down key to modify the mark of note.
2. When input content, press left soft key then select "Advanced input", you can select much more input method, including Intelligent English input method.
3. In All Notes option you can select : Create Note, This note (including Edit, Delete, Mark, Send via Bluetooth, Mark mode, Memory status;

## 5.7.6 Calculator

---

The Calculator can perform four standard operations (add, subtract, multiply, divide). Use 0-9 keys to input a value.

The layout of the calculator matches the keypad, so that multiplication is shown with the "\*" key, the enter key is the Left Soft Key sign, addition is with the "+" key and so on. You can also press the navigation keys to select one of the four operations: add, subtract, multiply and divide.

1. Press the number keys to enter a value
2. Select an operation
3. Press numeric keys to input the second operation value
4. Select the = key. The result will be displayed on the screen.

To perform multiple mathematical operations, you must press equal (=) after each operation.

## 5.7.7 Stopwatch

---

This unit provides two stopwatch functions: common mode and loop mode.

The Common Mode is a simple stopwatch, on/off and reset.

1. Press "Select" to start timing.
2. Press Select or left soft key to stop.
3. Press again to continue timing. If there is a time noted, press the right soft key to clear.

The Loop Mode is so that additional time segments can be added, started and stopped to

record various activities within the event. The “add” button adds another loop while recording the previous loop’s time.

## 5.7.8 World Time

---

To view the time in different locations of the world, scroll right/left across the map.

## 5.7.9 Unit Converter

---

Unit Converters lets you easily convert between different units of measurement

## 5.7.10 Ez Tip Calc

---

Ez Tip Calc allows you to split your bill.

there is a somewhat easy way to calculate the tip.

15% = 10% + 5%. So what you need to do is figure out 10% then add half (5%).

10% is very easy to calculate, you just move the decimal place one to the left. For example, if the bill is \$25.00 then 10% would be \$2.50.

Then to figure out 5%, just take half of that, which would be \$1.25.

Now you have 10% which is \$2.50 and 5% which is \$1.25, add them together for a total of \$3.75.

Often, the bill ends up at some obscure value such as \$17.73, which may be a bit difficult to calculate using the above method. In cases like that, just round it to the nearest dollar. It would be much easier to calculate the tip for \$18.00.

## 5.8 Bluetooth

---

The Bluetooth features of the phone can be accessed by selecting the Bluetooth Icon from the menu screen.

### 5.8.1 Turn Blue tooth on/off

---

1. Select Turn blue tooth on/off: Enable/Disable Bluetooth..

### 5.8.2 To set up a new Bluetooth device

---

1. Select Device Search: When a Bluetooth device is enabled, all Bluetooth hands free devices and Bluetooth devices will be searched for. Bluetooth devices are then added and paired.
2. After detecting a Bluetooth hands free device, a Bluetooth password must be entered to perform the pairing. (Bluetooth passwords are set by other Bluetooth devices.)
3. Once pairing completes, it will connect with the device.

### 5.8.3 Discoverable

---

Enable this function find devices within three minutes.

### 5.8.4 Found Devices: Display detected devices.

### 5.8.5 Manage

---

List the devices connect to the cell phone. Bluetooth hands free devices and Bluetooth devices can be deleted and configured.

Pair: Pair with the device selected.

Remove: Remove the selected device from the list.

Browse Files: When browsing files, the selected device must be successfully paired.

Setup Bluetooth: Enable and disable Bluetooth, rename, and device status.



## 5.9 Settings

---

Settings features can be accessed from the menu screen by selecting the Settings icon from the main menu.

### 5.9.1 Profiles

---

The Profiles setting is used to customize the phone's alerts and ringtones. To select and personalize the Profile settings, select the Profiles icon from the main menu.

There are five predefined profile settings which can be customized: Normal, Loud, Vibrate, Silent, and Airplane Mode.

Note: in Airplane Mode, please consult airline staff about the use of Airplane Mode in flight. Turn off your phone whenever instructed to do so by airline staff. Airplane Mode turns off your phone's calling features in locations where wireless phone use is prohibited. You cannot make or receive calls in Airplane Mode, but you can use your phone's other non-calling features

#### 5.9.1.1 Activate

---

Set to be current active profile.

#### 5.9.1.2 Personalize

---

You are able to customize the following settings for each of the above choices:

Incoming call alert: Alert method for incoming calls.

Voice volume: Set the speaker volume.

Ringtone: Select the incoming ring tone.

Ring volume: Set the ring volume for incoming calls.

Vibrating alert: Select whether or not to enable vibration.

Message alert tone: Select the text message alert tone.

Roaming Ringtone

Keypad tone: Set the keypad tone.

Auto Answer: Set auto answer time.

Speakerphone: Select whether or not to enable the speaker.

## 5.9.2 Phone Setup

---

Language: Choose English or French

Greeting: Switch between Enable and Disable. The greeting is shown when the phone is powered on and can be edited by highlighting the current greeting and pressing the left soft/menu

Clock Format: Set between 12 hour (w/AM and PM) or 24 hour..

Location: Select Location on or 911 Only

USB Disk Mode: Enables the transfer of data between a PC and the installed microSD card on the phone using the data cable.

## 5.9.3 Display Setup

---

Wallpaper: Select a picture as the background image on the phone.

LCD Backlight: The backlight time can be set to turn off after 10, 20, or 30 seconds. It can also be set to always on, however the longer a backlight is on the faster the battery will drain.

Brightness: You can select the brightness level of the LCD backlight using the left/right navigation key.

Main Menu: You can set the main menu Icon or List mode.

Themes: The unit provides three themes.

## 5.9.4 Call Setup

---

Answer Options: You can select Flip Open, Any Key or Send Only to answer a call.

Emergency Alert: You can select Ring& Vibrate mode or Vibrate Only mode.

Call Duration Reminder: Set the reminder to sound during calls at 5 seconds, 30 seconds, 60seconds, or off.

Call Connect Notification: If this feature is turned on, then a notification will sound each time a call is connected.

Blacklist: You can set up a blacklist. After enabling the blacklist, the phone numbers listed in the blacklist will not be able to call this phone.

- o Status: Disable/Enable.

- o Blacklist List: Up to nine blacklisted entries can be added. You can edit the list through this menu.

TTY Mode: This menu lists as TTY Off, TTY Full, TTY VCO,TTY HCO,TTY Debug.

## 5.9.5 Security Setup

---

To make changes in the Security menu, you must correctly input the phone password. The initial password is 1234.

Phone Lock: If “Enabled”, when the phone is powered on you will be prompted to enter the phone’s password correctly to use the phone.

Keypad Lock: The keypad lock can be set to be enabled after 5 seconds, 30 seconds, 60 seconds, or 5 minutes. To unlock the keypad, press “\*” then the Answer/Send key. Even when locked, you may answer an incoming call.

Call History Lock: If enabled the phone will require the password to be entered each time you access the phone’s Call History.

Phonebook Lock: If enabled, the phonebook cannot be viewed until the password is entered.

Message Lock: If enabled, the phone will require the password to be entered to access messages.

Change Password: Change the password using this option. The Old Password must be entered before a new one is accepted. Enter the same new password twice and press the left soft/menu key to confirm. The new password will then become effective. During this course you may press the right soft key to discard the change at any time and return to higher-level menu. You can create separate passwords for the phone lock, the call history lock, the phonebook lock, and the message lock.

Restore Factory Settings: This function is used for restoring to the default factory settings.

## 5.9.6 Phone Info

---

Displays the information about the phone.

1. Base Phone Information.
2. Icon Glossary
3. Operating System
4. Warranty Code
5. Refurbish

# 6 SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

**READ THIS INFORMATION BEFORE USING YOUR**

## **HANDHELDPORTABLE 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).

1\*: American National Standards Institute.

2\*: National Council on Radiation protection and measurements.

3\*: International Commission on Nonionizing Radiation Protection.

### **ANTENNA SAFETY**

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Please contact your local dealer for replacement antenna. 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.

### **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**

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. 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. Therefore, use of your phone must be restricted in certain situations.

## **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.

## **HEARING AIDS**

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

## **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.

## **VEHICLES**

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

## **POSTED FACILITIES**

Turn your phone OFF where posted notices so require.

## **OTHER SAFETY GUIDELINES**

### **AIRCRAFT**

FCC regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft. Always request and obtain prior consent and approval of an authorized airline representative before using your phone aboard an aircraft. Always follow the instructions of the airline representative whenever using your phone aboard an aircraft, to prevent any possible interference with airborne electronic equipment.

### **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/DC Travel Adaptor (2) Battery and (3) Product Using Battery.

Failure to follow the directions below could result in serious bodily injury and/or property damage due to battery liquid leakage, fire or rupture.

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 PCD 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.

## **6.1 SAFETY INFORMATION FOR FCC RF EXPOSURE**

**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.

### **BODY-WORN OPERATION**

This device was tested for typical body-worn operations with the back of the phone kept 1.5 cm. from the body. To maintain compliance requirements, use only belt-clips, holsters or similar accessories that maintain a 1.5 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](http://www.fcc.gov).

## **6.2 SAR INFORMATION**

**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 0.95 W/Kg and when worn on the body, as described in this user guide, is 0.66 W/ 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 15mm 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/ea> after searching on U46-CDM2035.

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 W/kg (W/kg) averaged over one gram of tissue. The standard incorporates a sub-stancial margin of safety to give additional protection for the public and to account for any variations in measurements.



## **6.3 HEARING AID COMPATIBILITY HAC FOR WIRELESS TELECOMMUNICATIONS DEVICES**

### **PCD'S COMMITMENT**

PCD believes that all of our customers should be able to enjoy the benefits of digital wireless technologies. We are committed to providing a selection of compatible devices for our customers who wear hearing aids.

### **THIS PHONE HAS A HAC RATING OF M3/T3 WHAT IS**

#### **HEARING AID COMPATIBILITY?**

The Federal Communications Commission has implemented rules and a rating system designed to enable people who wear hearing aids to more effectively use these wireless telecommunications devices. The standard for compatibility of digital wireless phones with hearing aids is set forth in American National Standard Institute (ANSI) standard C63.19. There are two sets of ANSI standards with ratings from one to four (four being the best rating): an "M" rating for reduced interference making it easier to hear conversations on the phone when using the hearing aid microphone, and a "T" rating that enables the phone to be used with hearing aids operating in the telecoil mode thus reducing unwanted background noise.

### **HOW WILL I KNOW WHICH WIRELESS PHONES ARE**

#### **HEARING AID COMPATIBLE?**

The Hearing Aid Compatibility rating is displayed on the wireless phone box.

A phone is considered Hearing Aid Compatible for acoustic coupling (microphone mode) if it has an "M3" or "M4" rating. A digital wireless phone is considered Hearing Aid Compatible for inductive coupling (telecoil mode) if it has a "T3" or "T4" rating.

### **HOW WILL I KNOW IF MY HEARING AID WILL WORK WITH A**

#### **PARTICULAR DIGITAL WIRELESS PHONE?**

You'll want to try a number of wireless phones so that you can decide which works the best with your hearing aids. You may also want to talk with your hearing aid professional about the extent to which your hearing aids are immune to interference, if they have wireless phone shielding, and whether your hearing aid has a HAC rating.

### **FOR MORE INFORMATION ABOUT HEARING AIDS AND**

#### **DIGITAL WIRELESS PHONE**

FCC Hearing Aid Compatibility and Volume Control –  
<http://www.fcc.gov/cgb/dro/hearing.html>  
Hearing Loss Association of America –  
<http://www.hearingloss.org/learn/cellphonetech.asp>  
CTIA – <http://www.accesswireless.org/hearingaid/>  
Gallaudet University, RERC – <http://tap.gallaudet.edu/voice>

## **6.4 FDA CONSUMER UPDATE**

### **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 subjects 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 problem.

## **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/cellphones>)

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>)

Health Protection Agency (UK) (<http://www.hpa.org.uk/radiation/>)

## **6.5 AVOID POTENTIAL HEARING LOSS**

Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cellular telephones, at high volume settings for long durations may lead to permanent noise-induced hearing loss. This includes the use of headphones (including headsets, earbuds and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound and distorted hearing. Individual susceptibility to noise-induced hearing loss and other potential hearing problems varies. The amount of sound produced by a portable audio device varies depending on the nature of the sound, the device, the device settings and the headphones. You should follow some commonsense recommendations when using any portable audio device:

Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.

When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.

Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise.

Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.

Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.

Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

## **YOU CAN OBTAIN ADDITIONAL INFORMATION ON THIS**

### **SUBJECT FROM THE FOLLOWING SOURCES:**

American Academy of Audiology  
11730 Plaza American Drive, Suite 300  
Reston, VA 20190

Voice: 800-AAA-2336

Email: [info@audiology.org](mailto:info@audiology.org)

Internet: [www.audiology.org](http://www.audiology.org)

National Institute on Deafness and Other Communication Disorders National Institutes of Health

31 Center Drive, MSC 2320

Bethesda, MD USA 20892-2320

Voice: (301) 496-7243

Email: [nidcdinfo@nidcd.nih.gov](mailto:nidcdinfo@nidcd.nih.gov)

Internet: <http://www.nidcd.nih.gov/health/hearing>

National Institute for Occupational Safety and Health  
Hubert H. Humphrey Bldg.

200 Independence Ave., SW

Washington, DC 20201

Voice: 1-800-CDC-INFO (1-800-232-4636)



## **6.6 FCC COMPLIANCE INFORMATION**

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received. Including interference that may cause undesired operation.

## **INFORMATION TO THE USER**

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful Interference in a residential installation This equipment generates, uses, and can radiate radio frequency energy and, if Not installed and used in accordance with the instructions, may cause harmful Interference to radio communications. However, there is no guarantee that interference will not occur in a particular Installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

**CAUTION:** Changes or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.

## **6.7 12 MONTH LIMITED WARRANTY**

Personal Communications Devices, LLC. (the "Company") warrants to the original retail purchaser of this 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) month 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, keypad, 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.

When sending your wireless device to Personal Communications Devices for repair or service, please note that any personal data or software stored on the device may be inadvertently erased or altered. Therefore, we strongly recommend you make a back up copy of all data and software contained on your device before submitting it for repair or service. This includes all contact lists, downloads (i.e. third-party software applications, ringtones, games and graphics) and any other data added to your device. In addition, if your wireless device utilizes a SIM or Multimedia card, please remove the card before submitting the device and store for later use when your device is returned, Personal Communications Devices is not responsible for and does not guarantee restoration of any third-party software, personal information or memory data contained in, stored on, or integrated with any wireless device, whether under warranty or not, returned to Personal Communications Devices for repair or service.

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 at the address shown below or to the place of purchase for repair or replacement processing. In addition, for reference to an authorized Warranty station in your area, you may telephone in the United States (800) 229-1235, and in Canada (800) 465-9672 (in Ontario call 416-695-3060).

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.

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555 Wireless Blvd.  
Hauppauge,New York 11788  
(800)229-1235

**IN CANADA:** Personal Communications Canada Ltd  
5535 Eglinton Avenue West,Suite 234  
Toronto, Ontario  
M9C 5K5  
(800)465-9672