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A copy of the original declaration of conformity can be found at the following Internet address:

<http://www.sharp-mobile.com>

Introduction

Congratulations and thank you for choosing the GX15.

About This User Guide

This user guide is carefully designed to help you learn about your phone's features and operations quickly and effectively.

NOTICE

- We strongly recommend that you keep separate permanent written records of all important data. Data may be lost or altered in virtually any electronic memory product under certain circumstances. Therefore, we assume no responsibility for data lost or otherwise rendered unusable, whether as a result of improper use, repairs, defects, battery replacement, use after the specified battery life has expired or any other cause.
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Useful Functions and Services

Your phone offers you the following features:

- A built-in digital camera for taking pictures and video clips.
- A message function for reading and creating SMS messages.
- MMS (Multimedia Messaging Services) for personalising your phone in various ways.
- A WAP browser for accessing information on the mobile Internet.
- Java™ applications. You can also download various applications from Vodafone via the mobile Internet.
- A melody editing function for creating original ringtones using up to 32 voices.
- A voice recorder function for recording and playing back voice clips.
- A *Bluetooth*® wireless technology interface for establishing contact and transmitting data with certain devices. You can transmit pictures, sounds, and video clips to OBEX-enabled phones.
- An infrared interface for data communication. You can transmit pictures, sounds, and video clips to OBEX-enabled phones.

- A data synchronization function for synchronizing the Contacts List and schedule entries with Microsoft Outlook or Outlook Express on a PC.
- A schedule alarm for creating and sending schedule entries with alarm settings.

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Your Phone

Please check the following carefully. Your phone should come complete with:

- GSM 900/1800/1900 GPRS phone
- Rechargeable Li-ion battery
- AC charger
- CD-ROM
- User guide
- Quickstart guide

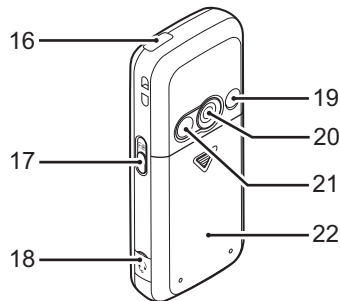
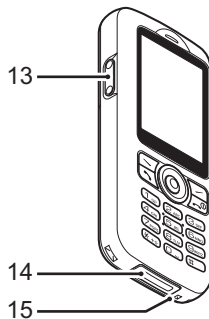
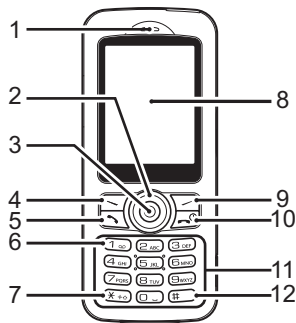
Optional Accessories

- Li-ion Spare battery (XN-1BT30)
- Cigarette lighter charger (XN-1CL30)
- USB data cable (XN-1DC30)
- AC charger (XN-1QC30, XN-1QC31)
- Personal handsfree kit (XN-1ER20)

The above accessories may not be available in all regions.

For details, please contact your dealer.

Getting Started



1. Earpiece

2. Navigation Keys (Arrow Keys):



Moves cursor to select menu items, etc.

Up/Down arrow keys: Displays Contacts List entries in stand-by mode.

Left arrow key: Displays list of Applications in stand-by mode.

Right arrow key: Displays list of Saved Pictures in stand-by mode.

3. Centre Key:



Displays Main menu in stand-by mode and executes functions.

4. Left Soft Key:



Executes the function at the bottom left of the screen.

5. Send Key:



Makes or accepts calls, views the call in stand-by mode.

6. Voice Mail Key:



Press and hold this key to connect to the Voice mail centre automatically.
(Depends on the SIM card.)

7. * /Shift Key:



Switches character case among four modes: Abc, ABC, 123 and abc.

8. Display

9. Right Soft Key:



Executes the function at the bottom right of the screen.
Used to access “Vodafone live!” by opening the browser in stand-by mode.

10.End/Power Key:



Ends a call, turns power on/off.

11.Keypad

12.# Key:



Switches symbol screens.
Press and hold this key on the text entry screen to shift text input method between multi-tap and T9 mode.
Press and hold this key during stand-by to switch Profiles settings between Normal and Silent mode.

13.Side-Up/Side-Down Keys:



Moves cursor to select menu items, adjusts earpiece volume, etc.

14.External Connector:

Used to connect either the charger or USB data cable.

15.Microphone

16.Infrared Port:

Sends and receives data via infrared.

17.Camera Key:

Starts the digital camera in stand-by mode.
Takes pictures or records videos in viewfinder mode.

18.Handsfree Kit Connector

19.RF Connector

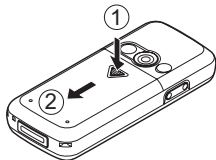
20.Camera

21.Self-Portrait Mirror: For taking a self-portrait.

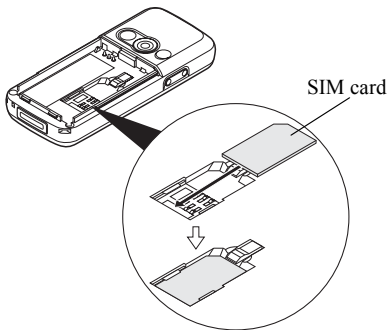
22.Battery Cover

Inserting the SIM Card and the Battery

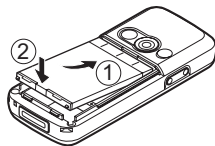
1. Slide off the battery cover (① ②).



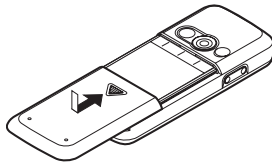
2. Slide the SIM card into the SIM holder.



3. Hold the battery so that the metal contacts of the battery are facing down, slide the guides on the top of the battery into the battery slots ①, and then insert it ②.



4. Replace the battery cover and slide it as shown below.

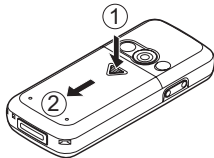


Note

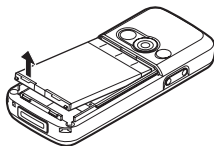
- Make sure that only 3V SIM cards are used.
- Make sure that the standard accessory battery (XN-1BT30) is used.

Removing the SIM Card and the Battery

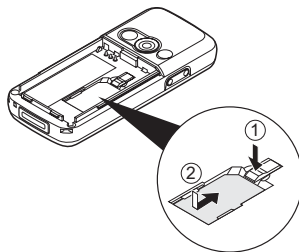
1. Make sure to turn off your phone and disconnect the charger and other accessories. Slide off the battery cover (① ②).



2. Pick up the battery using the protruding edge and remove the battery from the phone.



3. Hold down gently ① whilst sliding the SIM card out of the SIM holder ②.



Battery Disposal

The device is supported by a battery. In order to protect the environment, please read the following points concerning battery disposal:

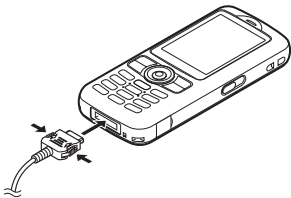
- Take the used battery to your local waste depot, dealer or customer service centre for recycling.
- Do not expose the used battery to an open flame, into water or dispose with the household waste.

Charging the Battery

You must charge the battery for at least 2 hours before using your phone for the first time.

Using the Charger

1. Remove the cover of the external connector, and connect the charger to the external socket located at the bottom of the phone by pressing both sides indicated with arrows. Connect the charger to an AC outlet. Keep the cover in a safe place so as not to lose it.



When the phone is charging, the animated battery status icon () in the upper right of the screen displays the current status.

Standard charging time: Approx. 2 hours.

Note

- Charging time may vary depending on the state of the battery and other conditions. (See “Battery” on page 108.)

To Disconnect the Charger

Push and hold the side buttons of the charger, then disconnect the charger from the external socket of the phone.

2. When charging is complete, the battery indicator icon displays the full charge status. Unplug the charger from the AC outlet, then unplug the charger connector from the phone. Put the cover back.

Note

- Do not use any non approved charger, this may damage your phone and invalidate any warranty, please see “Battery” on page 108 for details.

To Charge Using the Cigarette Lighter Charger

The optional cigarette lighter charger supplies power for charging from the cigarette lighter socket of a car.

Battery Level Indicator

The current battery level is displayed in the upper right hand side of the screen.

Low Battery During Use

When the battery is running low, an alarm will sound and the “” is displayed on the screen.

If you are using your phone and you hear the “low battery” alarm, attach your charger as soon as possible. The phone may not be able to continue normal operation if you continue to use it. The battery may only last approximately five minutes before the phone itself powers down during a call.

Battery Indicators	Charge Level
	Sufficiently charged
	Partially charged
	Charging recommended
	Charging required
	Empty

Turning Your Phone On and Off

To turn the power on, press and hold  for approximately 2 seconds.

The stand-by screen is displayed.

To turn the power off, press and hold  for approximately 2 seconds.

To Enter the PIN Code

If activated you are asked to enter a PIN (Personal Identification Number) code after turning on your phone.

1. Enter your PIN code.
2. Press .

Note

- If your PIN code is entered incorrectly three times in a row, the SIM card is locked. See “Enabling/Disabling the PIN Code” on page 100.

To Copy Contacts List from the SIM Card

When you insert the SIM card into your phone for the first time and start the Contacts List application, you are asked whether you wish to copy Contacts List entries on the SIM card. Follow the on-screen instructions, or you can do it later using the Contacts List menu as follows:

“Contacts” → “Contacts List” → [Options] → “Advanced” → “Copy All Entries”

1. Select “From SIM to Handset”.

Keypad Lock

You can lock the keypad to prevent it from being pressed accidentally.

Locking the Keypad

1. Press **[*+0]**, then [LockKeys] during stand-by.
The soft and centre keys are not displayed.
To unlock, press **[*+0]**, then [Yes].

Tip

- *Emergency numbers (112, etc.) can be input and dialled regardless of the keypad lock.*
- *To lock the keypad automatically, see “Auto Keypad Lock” on page 100.*

Display Indicators



Left soft

key ———

—————Right soft key

Centre key/Navigation keys

Status Indicators

1. : Strength of received signal / Service out of range
2. : GPRS enabled and within range — flashes during GRPS transmission.
3. / / : Alerts [Text message / Multimedia message / WAP]
4. / : Current application [executed (colour) / suspended (grey)]
5. (No display) / / / / / / : Current profile [Normal / Meeting / Activity / Car / Headset / Silent]
6. : T9 text input method enabled
7. / / / : Current text input method [First letter upper case / Upper case / Lower case / Numeric]
8. : “Diverts” (p. 91) set to “All Calls”

- | | | | |
|---|--|---|--|
| 9.  /  : | Secured WAP page displayed | 25.  /  : | Schedule entry with reminder alarm
[enabled / disabled] |
| 10.  : | Call incoming | 26.  : | Keypad Lock (p. 14) enabled |
| 11.  : | Call in progress | | |
| 12.  /  : | Current WAP or MMS communication
mode [CSD / GPRS] | | |
| 13.  : | Battery level | | |
| 14.  : | Roaming outside network | | |
| 15.  : | “Ringer Volume” (p. 84) set to “Silent” | | |
| 16.  : | Vibration alert (p. 85) enabled | | |
| 17.  : | USB data cable connected | | |
| 18.  /  : | “Infrared” connection [enabled /
communicating] | | |
| 19.  : | <i>Bluetooth</i> wireless setting [enabled /
handsfree headset / handsfree car kit] | | |
| 20.  : | Data communication mode enabled | | |
| 21.  : | Fax communication mode enabled | | |
| 22.  : | Outbox contains unsent multimedia
messages | | |
| 23.  : | Voicemail message alert | | |
| 24.  : | Daily alarm enabled | | |

Navigating Functions

All applications are accessed from the Main menu. To open the Main menu, press the centre key () during stand-by.

To launch applications, you will need to highlight menu items, and make selections. To select a menu item (indicated in quotation marks), move the cursor using , ,  and , and press  to commit your selection.

In certain procedures, you will need to press one of the soft keys (indicated in square brackets), which are displayed at the bottom left and right of the screen. Press the corresponding soft key ( or .

To return to the previous screen, press the right soft key if it displays “Back”. To close the Main menu, press the right soft key if it displays “Exit”.

Each section in this user guide starts with a list of items you will need to select in order (indicated in *italics*) before performing the procedures shown. Select each item to reveal the next set of items that you have to select. Open subsection items after opening those listed in the main section.

Example:

“Contacts” → *“Contacts List”* → *[Options]* →
“Advanced”

Call Functions

Making a Call

1. Enter the area code and the phone number you wish to dial and press  to dial.

If you enter the wrong number, press [Clear] to delete the number to the left of the cursor.

Emergency Calls

1. Enter 112 or 911 (international emergency number) using the keypad and press  to dial.

Note

- *Emergency calls may not be available on all mobile phone networks when certain network services and/or phone features are in use. Contact your network operator for more information.*
- *This Emergency number can normally be used to make an emergency call in any country, with or without a SIM card inserted, if a GSM network is within range.*

International Calls

1. Press and hold  until a “+” (international dialling prefix) sign is displayed.
2. Enter the country code, followed by the area code (without the leading zero) and the phone number, and press  to dial.

Speed Dialling

Up to 9 phone numbers from the Contacts List memory (Handset and SIM) can be assigned to speed dials. You can call the numbers using the digit keys ( to  and ).

For details on setting the Speed Dial List, see “Speed Dial List” on page 33.

1. To dial a number using the speed dial, press and hold any of the digit keys ( to  and ).
The phone number stored in the Speed Dial List is dialled.

Redialling

You can redial numbers in the call log. Select from specific categories or “All Calls”. Specific category contains up to 10 numbers and the “All Calls” list contains up to 30.

1. Press  during stand-by.
2. Select the category from “All Calls”, “Dialled Numbers”, “Missed Calls” or “Received Calls”.
To switch logs, press  or .
3. Select the phone number you wish to call.
4. Press  to redial the call.

Automatic Redialling

This setting allows you to automatically redial the number if the first attempt was unsuccessful because the called party was busy.

If you wish to stop redialling, press  or [End].

To Set the Auto Redial Function

“Settings” → “Call Settings” → “Auto Redial”

1. Select “On” or “Off”.

Note

- When you receive an incoming call, the Auto Redial function is interrupted.

- Automatic redialling is not available for fax and data calls.

Answering a Call

When an incoming call is detected, the phone rings.

1. Press ,  or [Answer] to answer the call.
Or press any key except  and [Busy] when the “Any Key Answer” function is enabled. Set the Any Key Answer function in the profile of each mode. (p. 88)

Tip

- When the Personal handsfree kit (option) is connected to the phone, you can answer calls by pressing the Answer button.
- If you have subscribed to the Calling Line Identification (CLI) service and the caller's network sends the number, the caller's number is displayed on the screen. If the caller's name and number are stored in the Contacts List, the caller's name and phone number are displayed on the screen.

- *If the number is a restricted number, the display shows “Withheld”.*
- *When receiving a call from the person whose picture is registered in the Contacts List, receiving display and the picture are displayed alternately.*

Rejecting an Incoming Call

1. Press  or press and hold the side-up or side-down key whilst the phone is ringing to reject a call you do not wish to answer.

Letting the Caller Know You are Unavailable

1. Press [Busy] whilst the phone is ringing to send a busy tone to the caller of an incoming call letting them know that you cannot answer the call.

Incall Menu

Your phone has additional functions available whilst a call is in progress.

Adjusting the Earpiece Volume

During a call, you can adjust the earpiece volume (and handsfree volume, if connected).

1. During a call, press the side-up or side-down key to display the Earpiece Volume screen.
2. Press the side-up key or  to increase the volume of the call or press the side-down key or  to decrease the volume.
Five levels (level 1 to 5) are selectable.
3. Press  when the volume is set to the desired level.

The phone returns to the in-call screen automatically if left unoperated.

Putting a Call on Hold

This function allows you to manage two calls at the same time. If you wish to make another call whilst you are talking to someone, you can put the current call on hold to call someone else.

To Make Another Call during a Call

1. During a call, press [Options].
2. Select “Hold”.
The current call is put on hold.
3. To retrieve a call, press [Options] and select “Retrieve”.
4. Enter the phone number you wish to make another call to, then press .

Tip

- You can also make another call by entering the phone number during a call instead of steps 1 and 2. The current call is automatically put on hold.

Call Waiting

This service notifies you of another incoming call whilst you have a call in progress.

1. During a call, press [Options] and select “Hold & Answer” to answer the second call.
The first call is put on hold and you can now talk to the second caller.
2. Press [Options] and select “Swap Calls” to switch between the two calls.
3. Press [Options] and select “Release Call” to end the current call and return to the held call.

Note

- You need to set “Call Waiting” to “On” if you use the Call Waiting service (p. 92).
- Call Waiting service may not be available on all networks. Contact your network operator for more information.
- If you do not wish to answer the second call, press [Busy], or press [Options], and select “Busy” or “Reject”, in step 1. If “Reject” is selected, the call log of the second call is saved as a missed call.

Accessing SMS Menu During a Call

1. During a call, press [Options] and select “Text”.
The following options are available: “Create Message” to make an SMS, or “Inbox”, “Sent” or “Drafts” to access these folders. For details on SMS, see “Text (SMS)” on page 48.

Conference Call

Conference call is a call with more than 2 participants. You may include up to 5 participants in a conference call.

To Make a Conference Call

To make a conference call, you must have one active call and one held call.

1. During a call, press [Options] and select “Multiparty” to answer the second call.
2. Select “Conference All” to join the conference call.
3. Press  to end the conference call.

Note

- *Conference call service may not be available on all networks. Contact your network operator for more information.*
- *You have more options for the Conference call in step 3:*
 - *To put all participants on hold, select “Conference Hold All”.*
 - *To put all participants except the current call on hold, select “Private”.*
 - *To end the call with all participants, select “Release All”.*
 - *To disconnect from the conference call but still allow the other participants to continue talking together, select “Transfer”.*
 - *To put the current call on hold and continue to have a conference call with the remaining participants, select “Exclude”.*
 - *To reject adding more participants to the current party, select “Reject”, or you can send the busy tone by selecting “Busy”.*

To Add New Participants to the Conference Call

1. Press [Options] and select “Dial”.
2. Enter the number you wish to include in the conference call and press  to dial.
3. Press [Options] and select “Multiparty”.
4. Select “Conference All” to join the conference call.
If you wish to add other participants, repeat steps 1 to 4.

To End the Call with a Conference Call Participant

1. During a conference call, highlight the person that you wish to disconnect from the conference call.
2. Press [Options] and select “Release Call”.

To Have a Private Conversation with One of the Participants

If you wish to have a private conversation with one of the participants, you may select the participant from the conference list and put the other participants on hold.

1. During a conference call, select the person that you wish to talk to.
2. Press [Options] and select “Multiparty”.
3. Select “Private”.
4. Once you have finished the private conversation, press [Options] and select “Multiparty”.
5. Select “Conference All” to return to the conference call.

Muting the Microphone

1. During a call, press [Mute] to mute the microphone.
To unmute the microphone, press [Unmute].

Entering Characters

When entering characters to create Contacts List entries, text messages or multimedia messages, etc., press the corresponding keys.

In multi-tap input method, press each key until the desired character is displayed. For example, press **2 ABC** once for the letter “A” or twice for the letter “B”.

Table of Characters

Pressing each key scrolls characters in the following order. The order varies depending on the language selected.

English Mode

Key	Upper Case Characters	Lower Case Characters	Numeric
1 CD	. (full-stop) , (comma) - (hyphen) ? ! ' (apostrophe) @ : 1		1
2 ABC	ABC2	abc2	2
3 DEF	DEF3	def3	3
4 GHI	GHI4	ghi4	4
5 JKL	JKL5	jkl5	5
6 MNO	MNO6	mno6	6

Key	Upper Case Characters	Lower Case Characters	Numeric
7 PQRS	PQRS7	pqrs7	7
8 TUV	TUV8	tuv8	8
9 WXYZ	WXYZ9	wxyz9	9
0 _	(space)+ = < > € £ \$ ¥ % & 0		0
* +o	Switches character case among four modes: Abc, ABC, 123 and abc.		
#	. , ? ! : ; - + # * @ ' " () _ & € £ \$ % / ~ < > § = \ ¥ ¡ ¢ £ ¤ ¥ ¦ § ¨ Æ å ä æ à ç È é ê ì Ñ ñ Ò Ó ô õ ø ò ß Ù ü ù ð ñ ò ó ô õ ø ò ß Ù ü ÷ (space) _		

1 CD - **9 WXYZ**: Press and hold to enter 0 - 9 numbers.

0 _

*** +o**: Press and hold to enter *.

#: Press and hold to shift between multi-tap and T9 mode.

Changing the Input Languages

You can change the input language on the text entry screen.

1. On the text entry screen, press [Options].
2. Select “Input Language”.
If “Input Language” is not displayed, select “Text Options” and then select “Input Language”.
3. Select the desired language.

Changing the Input Method

T9 Text Input

T9 text input method is a shortcut to enter text easily and quickly.

1. On the text entry screen, press and hold  to enter T9 mode.
2. Press [Options].
3. Select “Input Method”.
If “Input Method” is not displayed, select “Text Options” and then select “Input Method”.
4. Select the input mode (Abc, ABC, abc, 123).
5. Press each key once for any letter you require on that key.

To enter the word “How”, press   .

6. If the word shown isn’t the one you want, press  or  until you highlight the correct one.
7. Press  to select the word.

Note

- If the correct word is not shown in step 6, enter the correct word again after switching to the multi-tap input method.

Tip

- If you press  instead of step 7, a space is inserted next to the selected word.

Symbols and Punctuations

1. On the text entry screen, press [Options].
2. Select “Add Symbol”.
If “Add Symbol” is not displayed, select “Text Options” and then select “Add Symbol”.
3. Select the desired symbol.

My Dictionary

You can create your own word list for T9 text input.

1. On the text entry screen in T9 mode, press [Options].
2. Select “My Dictionary”.
If “My Dictionary” is not displayed, select “Text Options” and then select “My Dictionary”.
3. Select “Add New Word” and enter a new word.

To edit a word in the list

1. On the text entry screen in T9 mode, press [Options].
2. Select “My Dictionary”.
If “My Dictionary” is not displayed, select “Text Options” and then select “My Dictionary”.
3. Select the desired word.
4. Press [Options] and select “Edit”.
5. Modify the word.

Using Text Templates

You can use the sentences registered in Text Templates when entering characters.

For details on creating the text template, see “Adding Phrases to Text Templates” on page 63.

1. On the text entry screen, move the cursor to the point you wish to insert the template.
2. Press [Options].
3. Select “Text Template”.
If “Text Template” is not displayed, select “Text Options” and then select “Text Template”.
4. Select the desired text template.
The selected text template is inserted.

Using the Menu

Accessing Applications

Shortcut Keys

You can shortcut to the specified menus by pressing  and digit keys for the menu's corresponding number on the Main menu. See the following table for reference. Shortcuts are listed in the headings of this manual. For example: "M 9-6".

Example: To Access "Language" Sub Menu
Using Shortcut Keys

Press   .

Note

- *The shortcut keys work for the first three menu levels only.*

1. Press  during stand-by.
The Main menu is displayed.
2. Navigate to required location.
3. Press  to access function.

List of Menu Functions

Menu No./ Main Menu	Menu No./ Sub Menu1
1 Games & More	1 Applications 2 Screensavers 3 More Games 4 Settings 5 Java™ Information
2 Vodafone live!	1 Vodafone live! 2 Games 3 Ringtones 4 Pictures 5 News 6 Sport 7 Find & Seek 8 Chat 9 Search
3 Applications	1 SIM Application* 2 Alarms 3 Calculator 4 Voice Recorder 5 Melody Editor 6 Phone Help
4 Messages	1 Create Message 2 Multimedia 3 Text 4 Media Album 5 Vodafone Mail 6 Messenger 7 Cell Broadcasts 8 Area Info

Menu No./ Main Menu	Menu No./ Sub Menu1
5 Camera	1 Take Picture 2 Record Video
6 My Items	1 Pictures 2 Games & More 3 Sounds 4 Videos 5 Text Templates 6 Bookmarks 7 Memory Status
7 Calendar	
8 Contacts	1 Contacts List 2 Add New Contact 3 Call Log 4 Speed Dial List 5 My Numbers 6 Call Timers 7 Data Counter 8 Call Costs
9 Settings	1 Profiles 2 Display 3 Sound 4 Call Settings 5 Date & Time 6 Language 7 Connectivity 8 Network 9 Security 0 Master Reset

* Depends on SIM card contents.

Contacts List (M 8-1)

You can store the phone numbers and e-mail addresses of your friends, family and colleagues in the Contacts List.

Your phone can store up to 640 phone numbers. In a Contacts List, you can store the following items.

Items stored in the handset memory

First Name

Last Name

Tel Private

Tel Office

Tel Mobile Private

E-mail Private

E-mail Business

Address

Note

Tip

- *There is no character limit for entering text into the above fields when using the internal memory.*

Items stored in the SIM memory

Name: The number of characters that can be stored differs depending on the SIM card you use.

Phone number: Up to 40 digits

Using the infrared or *Bluetooth* wireless function, you can send the Contacts List entry to a PC to share the same entries.

Selecting the Storage Memory

“Contacts” → “Contacts List” → [Options] → “Advanced” → “Save New Contacts”

1. Select Contacts location from “Handset Memory”, “SIM Memory” or “Choose before Saving”.

Tip

- *“Choose before Saving” prompts you to choose the memory every time you save a new entry.*

Changing the List Displayed

“Contacts” → “Contacts List” → [Options] → “Advanced” → “Contacts Location”

1. Select from “Handset Memory”, “SIM Memory” or “Both”.

Add New Contact (M 8-2)

You can choose either the phone or SIM card memory locations to store the new entry. For switching locations, see “Selecting the Storage Memory” on page 29.

The amount of phone numbers that you can store to the SIM card is dependent on its capacity. Contact your network operator for details.

“Contacts” → “Add New Contact”

If you select the “Choose before Saving” option for the memory to be used, the selection is between “To Handset” and “To SIM”.

1. Select the field you wish to fill in, and enter the relevant information.
2. Press [Save] when finished.

Tip

- To create an entry, at least one field must be filled. If you create a new entry on the SIM card, you need to enter a phone number.

Adding a Thumbnail to Entries

“Contacts” → “Contacts List”

1. Highlight the desired entry.
2. Press [Options] and select “Edit”.
3. Select “Picture”.

4. Select the desired picture.
5. Press [Save] when finished.

Note

- If you delete a picture in Saved Pictures, the corresponding thumbnail is also deleted.
- If the picture size exceeds 120 dots (W) or 160 dots (H), specify the area you wish to display.

Copying Contacts List Entries between SIM Card and Handset

“Contacts” → “Contacts List” → [Options] → “Advanced” → “Copy All Entries”

1. Select “From SIM to Handset” or “From Handset to SIM”.

Note

- When you insert the SIM card into your phone for the first time and start the Contacts List application, the confirmation screen appears automatically, asking you if you wish to copy or not. The number of Contacts List entries to be copied varies depending on the SIM capacity.

Copying a Single Entry from Handset to SIM Card

“Contacts” → “Contacts List”

1. Select the desired entry.
2. Highlight the desired phone number.
3. Press [Options] and select “Copy to SIM”.

Finding a Name and Number

“Contacts” → “Contacts List”

1. Enter the first few letters of the name.
Search results are displayed in alphabetical order.
2. Select the desired entry.

Tip

- You can select the Contacts location from “Handset Memory”, “SIM Memory” or “Both” before searching.
- To view the details of the item such as address, highlight the desired item, press [Options] and select “View”.

Dialling from the Contacts List

“Contacts” → “Contacts List”

1. Highlight the desired entry and press .

Tip

- You can also dial the desired phone number by pressing the digit key corresponding to the position the entry is on the list.
- If more than one phone number is registered for the entry, select the desired phone number after step 1 and press .
- You can also dial from the details screen of the Contacts List. On the details screen, select the desired phone number and press .
- If you select “SIM Memory” for the “Contacts Location” option in Contacts List menu (p. 29), only one phone number entry is displayed.

Editing Contacts List Entries

“Contacts” → “Contacts List” → [Options] → “Edit”

1. Select the field you wish to edit, and modify the information.
2. Press [Save] when finished.

Deleting Contacts List Entries

Deleting All Contact Entries

“Contacts” → “Contacts List” → [Options] → “Advanced” → “Delete All Entries”

1. Enter your handset code.
2. Select “Handset Entries” or “SIM Entries”.

The default handset code is “0000”. For details on changing the handset code, see “To Change Handset Code” on page 101.

Deleting a Contact Entry

“Contacts” → “Contacts List”

1. Highlight the desired entry.
2. Press [Options] and select “Delete”.

Viewing Groups

You can set group icons when storing Contacts entries so that you can easily find and edit them.

“Contacts” → “Contacts List” → [Options] → “Advanced” → “Group” → “View Groups”

1. Select the desired group.
“☒” appears next to the selected group. Select the group again to cancel, and the checkbox becomes unchecked.

Tip

- Press [Options] and select “Current Only” to view only the selected group or “Select All” to view all groups.

Group Call

Different ringtones can be set for each group. When you purchase this phone, groups are set to off. If you do not set a group ringtone, the ringtone assigned in the Settings menu is used.

“Contacts” → “Contacts List” → [Options] → “Advanced” → “Group” → “Group Call”

1. Select the desired group.
2. Select “Switch On/Off”.
3. Select “On” or “Off”.
4. Select “Assign Ringtone”.

5. Select “Preset Sounds” or “My Sounds”.
6. Select the desired ringtone.
For details on selecting a ringtone, see “Assigning Ringtone” on page 85.
7. Select “Vibration” and select from “On”, “Off” or “On & Link to Sound”.
For details on selecting a vibration, see “Vibration” on page 85.
8. Press [OK].

Assigning a Ringtone to Each Contacts List Entry

A specified ringtone or vibration setting can be associated to a pre-registered entry.

“Contacts” → “Contacts List”

1. Select the desired entry.
2. Press [Options] and select “Edit”.
3. Press [Options] and select “Ringtone”.
4. Select “Switch On/Off”.
5. Select “On” or “Off”.
6. Select “Assign Ringtone”.
7. Select “Preset Sounds” or “My Sounds”.

8. Select the desired ringtone.

For details on selecting a ringtone, see “Assigning Ringtone” on page 85.

9. Select “Vibration” and select from “On”, “Off” or “On & Link to Sound”.

For details on selecting a vibration, “Vibration” on page 85.

10. Press [OK].

11. Press [Save].

Memory Status

This function helps you to check the number of entries stored in the Contacts List.

“Contacts” → “Contacts List” → [Options] → “Advanced” → “Memory Status”

Speed Dial List

You can set a maximum of 9 phone numbers in the Speed Dial List (p. 82).

Setting Contacts List Entries in the Speed Dial List

“Contacts” → “Contacts List”

1. Select the desired entry.
2. Highlight the desired phone number.
3. Press [Options] and select “Add to Speed Dial”.
4. Select the desired list number.

Tip

- The nine digit keys correspond to list numbers.
- To view the speed dial list, see page 82.

Sending a Contacts List Entry

“Contacts” → “Contacts List”

1. Highlight the desired entry.
2. Press [Options] and select “Send Contact”.
3. Select “Via Bluetooth” or “Via Infrared”.

The phone starts searching for *Bluetooth* wireless technology enabled devices within 10 metres or an infrared-enabled device within 20 centimetres.

The connection will be established and the entry will be sent.

Receiving a Contacts List Entry

When the phone receives a Contacts List entry, a confirmation message appears in the stand-by mode screen.

1. Press [Yes].

The received entry is registered in the Contacts List. Press [No] to reject.

Tip

- For details on making *Infrared* or *Bluetooth* wireless settings, see “Connectivity” on page 95.

Camera (M 5)

Your phone has an integrated digital camera.

This allows you to take and send pictures or video clips wherever you are.

Take Picture (M 5-1)

Put the phone into the digital camera mode to take a picture. Pictures are saved in Saved Pictures in JPEG format in the following three picture sizes.

 L: 480 × 640 dots

 M: 240 × 320 dots

 S: 120 × 160 dots

Taking Pictures

“Camera” → “Take Picture”

The preview is displayed through the screen.

1. Press  or the Camera key to take the picture.
The shutter sounds and the still image of the taken picture is displayed. Press [Cancel] to retake a picture.
2. Press [Save].
“Saving (file name) to My Items...” is displayed, then the picture is registered.
3. Press  to return to stand-by.

Remaining shots indicator

123: Indicates the remaining number of pictures that can be taken.

Tip

- Pressing the Camera key during stand-by also activates digital camera mode.
- If you wish to send a picture by multimedia message after taking the picture, press  before step 2. Then select “Multimedia” or “MMS Postcard”. (MMS Postcard service may not be available on all networks. Contact your network operator for more information.) Large MMS messages may cause the size of attached pictures to be reduced.

Using the Full Screen

The preview can be displayed on the full screen without the soft key area.

“Camera” → “Take Picture” → [Options] → “Full Viewfinder”

1. Select “On” or “Off”.

Taking a Self-Portrait

To take a self-portrait, hold the phone with the mirror facing you whilst holding the phone at least 40 cm away. Press  or the Camera key to take the picture.

Using the Zoom Function

Press  or  to change the zooming ratio.

Zooming ratio indicators

   : Magnification.

Note

- When “Picture Size” is set to “S”, the zoom function has 3 magnifications (×1, ×2, ×4).
- When “Picture Size” is set to “M”, the zoom function has 2 magnifications (×1, ×2).

Selecting the Picture Size

“Camera” → “Take Picture” → [Options] → “Picture Size”

1. Select the desired picture size.

Selecting the Picture Quality

“Camera” → “Take Picture” → [Options] → “Picture Quality”

1. Select “Normal” or “Fine”.

Picture quality indicators

 : Fine

 : Normal

Selecting the Anti-flicker Mode

“Camera” → “Take Picture” → [Options] → “Anti-flicker”

1. Select “Model1” or “Mode2”.

Note

- Vertical stripes may occur on the picture due to the light source. Change the mode to rectify.
- The digital camera uses a C-MOS sensor. Although this camera has been manufactured to the highest specifications, some pictures may still appear too bright or too dark.
- If the phone has been left in a hot place for a long time before taking or registering a picture, the picture quality may be poor.

In the Case of No Available Memory

When the number of pictures that can be taken becomes 3 or less, the remaining shots indicator in the upper left of the screen turns red. (The number of pictures that can be taken is approximate.)

Even if the number of pictures that can be taken becomes 0, you can continue to take and save pictures until the message, "Memory full. Please delete some data!" appears. After which, you can save the picture.

Adjusting the Brightness of the Picture According to Lighting Conditions

Press  or  to adjust the brightness of the picture.

Picture brightness (exposure level) indicators

    : (Bright → Normal → Dark)

Once the phone has returned to the stand-by screen, the brightness settings return to default.

Viewing the Taken Pictures

"Camera" → "Take Picture" → [Options] → "My Pictures"

The list of pictures is displayed.

1. Select the file you wish to view.

The selected picture is displayed.

Tip

- Your pictures are given file names which are "pictureNNN.jpg" (NNN is a consecutive number). The file name (without an extension), date and size of your pictures are displayed in the list.

Using the Timer (Delay Timer)

"Camera" → "Take Picture" → [Options] → "Delay Timer"

1. Select "On" or "Off".

" or " is displayed on the screen and the phone returns to digital camera mode.

2. Press  or the Camera key to start the delay timer. 10 seconds after the timer sounds, the shutter sounds, and the camera takes a picture.

Note

- The countdown sounds whilst the delay timer is operating.
- If  or the Camera key is pressed whilst the delay timer is operating, the picture is taken instantly.
- The zoom function with  or , or brightness adjustment of the picture with  or , is unavailable whilst the delay timer is operating.
- If you wish to stop taking pictures with the timer, press [Cancel] whilst the delay timer is operating.

Continuous Shot

Four pictures are taken in succession. Auto Shot and Manual Shot are available.

Continuous Shot indicators



When pictures are taken in Continuous Shot mode, these indicators appear on the screen.

- * When delay timer and Continuous Shot functions are simultaneously set, “” is displayed instead.

“Camera” → “Take Picture” → [Options] → “Continuous Shot”

1. Select “Auto Shot” or “Manual Shot”.
Select “Off” to cancel.
2. Press  or the Camera key to start Continuous Shot.
Auto Shot: Four pictures are taken in a row.
Manual Shot: Pictures are taken one by one by pressing  or the Camera key.
The taken pictures are saved automatically.
To stop Continuous Shot, press [Cancel].

Note

- When “Picture Size” is set to “L” or “M”, you cannot use the Continuous Shot.
- When you select a frame for taking pictures, you cannot use the Continuous Shot function.
- Delay timer cannot be used with the Manual Shot.

Selecting a Frame

You can select the frame from preset patterns. You can also select a frame in Saved Pictures.

“Camera” → “Take Picture” → [Options] → “Add Frame”

1. Select “Preset Frame” or “My Pictures”.
2. Select the desired frame.

The selected frame is confirmed on the display.

3. Press .

Note

- When “Picture Size” is set to “L” or “M”, you cannot use the Frame function.
- When you activate the Continuous Shot, you cannot use the Frame function.
- Only the images of PNG format can be selected as the frame if you select “My Pictures” in step 1.

Selecting the Shutter Sound

You can select the shutter sound from 3 preset patterns.

“Camera” → “Take Picture” → [Options] → “Shutter Sound”

1. Select the desired shutter sound.

To play back the shutter sound, press [Play].

Record Video (M 5-2)

Put the phone into the video camera mode to record a video.

Video clips are saved in “.3gp” format in the following two modes:

Record time indicators



: Message sending mode enabled



: Extended video mode enabled

Recording Video Clips

Sound can be recorded with the video clip.

“Camera” → “Record Video”

The preview is displayed through the screen.

1. Press  or the Camera key to start recording the video clip.

The sound for recording the video clip occurs.

If you press  or the Camera key again, or when the recording is completed, the sound for ending the video clip recording occurs and the display transits to step 2.

2. Select “Save”.

“Saving (file name) to My Items...” is displayed, then the video clip is registered.

To preview a video clip before saving, select “Preview”.

To send a video clip by multimedia message after recording the video clip, select “Save and Send”.

To record a voice clip again, press [Cancel].

Remaining sets indicator

123 : Indicates the remaining sets of video clips that can be recorded.

Using the Zoom Function

Press  or  to change the zooming ratio.

Zooming ratio indicators

   : Magnification.

Selecting the Recording Size Mode

You can select the recording size mode.

“Camera” → “Record Video” → [Options] → “Record Size”

1. Select “Extended Video” or “For Message”.

Note

- If “For Message” is selected, the size of the video clip that can be recorded depends on the message size set in MMS settings (p. 47).
- “Save and Send” is not displayed after recording in extended video mode.
- This option is not applicable to some service providers. Please contact your service provider for more information.

Selecting Video Quality

“Camera” → “Record Video” → [Options] → “Video Quality”

1. Select “Normal” or “Fine”.

Video quality indicators

 : Fine

 : Normal

In the Case of No Available Memory

When the number of video clips that can be recorded becomes 3 or less, the remaining sets indicator in the upper left of the screen turns red. (The number of sets that can be recorded is approximate.)

Even if the number of video clips that can be recorded becomes 0, you can continue to record and save video clips until the message, “Memory full. Please delete some data!” appears. After which, you can save the video clip.

Adjusting the Brightness of the Video Clips According to Light Conditions

Press  or  to adjust the brightness of the video clip.

Picture brightness (exposure level) indicators

    : (Bright → Normal → Dark)

Once the phone has returned to the stand-by screen, the brightness settings return to default.

Viewing Recorded Video Clips

“Camera” → “Record Video” → [Options] → “My Videos”

The list of video clips is displayed.

1. Select the file you wish to view.
2. Press .

The selected video clip is played back.

To pause playback, press .

To resume playback, press  again.

To stop playback, press [Back].

Tip

- Your video clips are given file names such as “videoNNN.3gp” (NNN is a consecutive number). The file name (without an extension), date and size of your video clips are displayed in the list.
- If the video clip has been recorded with sound, the volume can be adjusted by pressing  or , or the side-up or side-down key.
- The volume varies depending on the Multimedia Volume settings (p. 87). The volume is 0 when “Multimedia Volume” is set to “Silent”.

Using the Timer (Delay Timer)

To Record a Video Clip with the Timer

“Camera” → “Record Video” → [Options] → “Delay Timer”

1. Select “On” or “Off”.
“” is displayed on the screen and the phone returns to video camera mode.
2. Press  or the Camera key to start the delay timer.
10 seconds after the timer sounds, the camera starts recording the video clip.

Note

- The countdown sounds whilst the delay timer is operating.
- If  or the Camera key is pressed whilst the delay timer is operating, the video clip is recorded instantly.
- The zoom function with  or , or brightness adjustment of the video with  or , is unavailable whilst the delay timer is operating.
- If you wish to stop recording video clips with the timer, press [Cancel] whilst the delay timer is operating.

Recording Video Clips with Sound

“Camera” → “Record Video” → [Options] → “Voice Record”

1. Select “On” or “Off”.

Messages (M 4)

Your phone allows you to send and receive text or multimedia and to receive WAP alerts.

Multimedia (MMS) (M 4-2)

About Multimedia Messaging

Multimedia Messaging Service (MMS) allows you to send and receive multimedia messages with graphical images, photographs, sound, animations or video clips attached.

Note

- **Some MMS functions may not always be available depending on your network. Contact your network operator for more information.**

Creating a New MMS (M 4-2-1)

☐ → “Multimedia” → “Create Message”

1. Enter the message.

To use the text template, move the cursor to the point you wish to insert the template. Press [Options] and select “Text Options”. Select “Text Template” and then select the desired template.

2. Enter the phone number or e-mail address of the recipient.

3. Select “Send”.

After the message is sent, the message is moved to the Sent box.

Note

- The current message size displayed whilst you are creating the message is an approximation.
- If a message cannot be sent for some reason, the message stays in the Outbox and “” is displayed on the stand-by screen.

Tip

- You can use the phone number or e-mail address from the Contacts List. (p. 31)
- To save the message without sending, select “Save to Drafts” instead in step 3.
- To enter the subject, select “Subject” in step 3 and enter it. This is optional. Up to 40 characters as the subject (and up to 20 characters (for To and Cc)) can be entered. However, these may be limited depending on your network. In this case, you may not be able to send MMS. Contact your network operator for more information.

- To add more recipients, select “Add Contact” in step 3. Select “To” or “Cc” and select the desired number of the recipient. Then enter the phone number or e-mail address.

To Send a Message Template MMS

Your phone provides message templates with an image and voice attachment that help you create easily.

 → “Multimedia” → “Create Message” → [Options] → “Message Template”

A confirmation screen asking whether you wish to discard the current text is displayed.

1. Confirm by selecting [Yes] or [No].
2. Select the desired template.
3. Enter the message.
4. Enter the phone number or e-mail address of the recipient.
5. Select “Send”.

Note

- Selecting “Message Template” deletes messages or images you have entered or attached. To prevent deletion, select “Message Template” first, then enter messages.

Turning the Slide Show Setting On or Off

 → “Multimedia” → “Settings” → “Slide Show”

1. Select “On” or “Off”.

If You Select “On”

- You can create messages which have up to 10 slides. Each slide can contain one picture, one sound file and up to 1000 characters of text (up to the message total 30 Kbytes or 100 Kbytes limit).
- If you wish to add a slide to a single slide, press [Options] and select “Add Slide”.
If you wish to perform slide operations for multiple slides, press [Options] and select “Slide Control”.
The slide control options available are:
Add: To add a new slide.
Remove: To remove the active slide.
Previous: To navigate to the previous slide.
Next: To navigate to the next slide.
- Video clip data cannot be attached as slide data to the message.

If You Select “Off”

- *You can attach a maximum of 20 pictures, sounds or video clips and up to 2000 characters of text (up to the message total 30 Kbytes or 100 Kbytes limit).*

Inserting Attached Data

You can send pictures, sounds and video clips saved in the handset memory attached to multimedia messages. When attaching video clips, “Slide Show” must be set to “Off”.

 → “**Multimedia**” → “**Create Message**”

1. Press [Options] and select from “Picture”, “Sound” or “Video”.
The selected picture/sound/video clip is attached. When attaching is complete, press [Back] to return to the message creation screen.
- To add more files, press [Options] and select from “Add Picture”, “Add Sound” or “Add Video”. Then select the desired file.
- To remove the attached files, press [Options] and select “Remove”.

Reading MMS

Messages you receive are stored in the Inbox.

Incoming Messages

The MMS indicator () will appear when you are receiving an incoming message.

 → “**Multimedia**” → “**Inbox**”

1. Select the message you wish to view.
The message is displayed.
2. Scroll the screen to read the message.
3. Press  when finished.

Tip

- *The volume varies depending on the Multimedia Volume settings (p. 87). The volume is 0 when “Multimedia Volume” is set to “Silent”.*

Storing the Phone Number or E-mail Address of a Sender in the Contacts List

 → “Multimedia” → “Inbox”

1. Highlight the message from which you want to store the phone number or e-mail address.
2. Press [Options] and select “Save Sender”.
For details on entering a name, see “Add New Contact” on page 30.

Retrieving MMS

When “” is in the Inbox, the following can be done.

 → “Multimedia” → “Inbox”

1. Highlight the alert you wish to download.
2. Press [Options] and select “Download”.

Tip

- You can press  instead of steps 1 and 2 to start downloading.

Confirming Arrival of Delivery Report

 → “Multimedia” → “Sent”

1. Highlight the message of which you wish to confirm arrival of delivery report.
2. Press [Options] and select “Delivery Report”.
This menu is available only for sent messages that have the “Delivery Report” set to “On”. For details

on selecting “Delivery Report”, see “Setting Up MMS”.

Setting Up MMS

 → “Multimedia” → “Settings”

1. Select the item you wish to set up.
 - Roam. Download (Immediate, Deferred):
Controls MMS download timing when roaming outside of your network.
 - Delivery Rep. Allow (On, Off):
Enables or disables Delivery Report when receiving a message which applies to the Delivery Report function.
 - Anonymous Reject (On, Off):
Rejects a messages from an unknown or empty address name or not.
 - Auto Delete (Off, Inbox, Sent, Both):
Deletes the oldest message automatically, when the Inbox, Sent or Both (Inbox and Sent) is full.

- Slide Show (On, Off):
Enables or disables Slide Show when sending a message.
 - Message Size (30KB, 100KB):
Sets the maximum message size that can be sent.
 - Advanced
 - Priority:
Prioritises composed messages.
 - Delivery Report:
Enables Delivery Report.
 - Expiry Time:
Sets Expiry Time for a message to be stored in the Server.
 - Sender Visibility:
Displays the information about the sender.
 - Slide Interval:
Sets the slide display time when sending a message.
2. Change each item.

Sending a Picture File with MMS Postcard

Your phone allows you to send multimedia messages to a Vodafone specific postcard service centre that prints the picture and mail it to the recipient's home address specified in the MMS message. (Your phone is initially provided with the address of a Vodafone specific Postcard service centre, and its address cannot be changed.)

MMS Postcard service may not be available on all networks. Contact your network operator for more information.

To Create a New MMS Postcard (M 4-2-2)

 → **"Multimedia"** → **"MMS Postcard"**

1. Select a picture you wish to use for a postcard.
2. Enter your message.
3. Enter the following information for the recipient.
See the note below for details.
 - Name
 - Postcode
 - Additional Info
 - County / City
 - House No. / Street
 - Country
4. Press [Options] and select "Send".

Note

- *The items Name, House No. / Street and Postcode are necessary to complete sending MMS postcards.*
- *Information for a recipient*
Name (mandatory):
Name of the recipient for a postcard up to 50 characters
Additional Info (optional):
Additional information of the recipient up to 50 characters
House No. / Street (mandatory):
Street and number up to 50 characters
Postcode (mandatory):
Postal code up to 60 characters
County / City (optional):
State, province, and region up to 50 characters
- *Country (optional):*
Country up to 20 characters
- *The item “Country” may not be displayed, so you cannot send MMS Postcards overseas from your phone.*
- *Files in Animation GIF format cannot be used for the MMS Postcard service.*
- *The picture quality of MMS Postcard varies depending on the picture size.*

Text (SMS) (M 4-3)

About Text Messaging

The Short Message Service (SMS) allows you to send text messages of up to 1024 characters to other GSM users.

To Use SMS with Your Phone

Messages longer than 160 characters may be composed. During sending, the messages are split. If the receiver has a suitable phone the messages recombines during reception, if not your message appears as a number of separate 152 characters messages.

You can send or receive SMS even if you are talking on the phone.

You can also use Text Templates to help you compose SMS.

Creating and Sending a New SMS (M 4-3-1)

 → “Text” → “Create Message”

1. Enter your message.

To use the text template, move the cursor to the point you wish to insert the template. Press [Options] and select “Text Template” and then select the desired template.

2. Enter the phone number of the recipient.

3. Select “Send”.

The phone begins the sending process and the SMS is sent. After the message has been sent, the message is added to the Sent box.

To save the message in the Drafts box without sending it, select “Save to Drafts”.

Note

- When you send a message of more than 160 characters, the confirmation message is displayed.

Tip

- You can use the phone number from the Contacts List. (p. 31)
- To add more recipients, select “Add Contact” in step 3. Select an item number for adding the recipient’s phone number. Then enter the phone number.

Reading SMS

Incoming Messages

The SMS indicator () will appear when an incoming message arrives.

1. When you receive a SMS, press  during standby.

2. Select the message you wish to view.

The sender’s phone number and a part of the message are displayed. When the sender’s phone number is stored in the Contacts List, the sender’s name is displayed instead of the phone number. Messages that are marked with “” denote unread messages. If the Inbox, Sent box or Drafts box is full, “” is displayed. Delete unnecessary messages.

3. Scroll the screen to read the message.
4. Press  when finished.

Extracting Phone Numbers from the Received Messages and Making a Call

You can make a call using the phone number embedded in the received SMS message.

 → ***“Text”*** → ***“Inbox”***

1. Select the message from which you wish to extract phone numbers.
2. Press [Options] and select “Extract Numbers”.
Telephone numbers embedded in the message are displayed.
3. Highlight the phone number.
4. Press [Options] and select “Make Call”.
To save this phone number in the Contacts List, select “Save Number”.

Setting Up SMS (M 4-3-5)

To Set Up the Service Centre Address

 → ***“Text”*** → ***“Settings”*** → ***“Message Centre”***

1. Enter the centre phone number.
If you wish to enter a country code for a message to an international number, press and hold  until a “+” sign is displayed.

Message Lifetime

This indicates the number of days and hours for which a message you send may remain undelivered to the message recipient.

During this period, the message service centre will continually try to deliver the message to the recipient.

 → ***“Text”*** → ***“Settings”*** → ***“Message Lifetime”***

1. Select the validity period.

Message Format

 → ***“Text”*** → ***“Settings”*** → ***“Message Format”***

1. Select the message format.

Connection Type

 → ***“Text”*** → ***“Settings”*** → ***“Connection Type”***

1. Select the connection type.

Optimisation

When set “On” (default), double-byte characters such as European characters with an accent are converted into single-byte characters and sent.

When “Off”, double-byte characters are sent as displayed.

Please note that you may be charged double for double-byte characters sent in an SMS when Optimisation is set “Off”.

 → “Text” → “Settings” → “Optimisation”

1. Select “On” or “Off”.

Cell Broadcasts (M 4-7)

You can receive Cell Broadcast messages or general messages such as weather forecasts and traffic reports. This information is broadcast to subscribers in certain network areas.

This function may not be available on all mobile phone networks. Contact your network operator for more information.

Enabling/Disabling Cell Broadcasts (M 4-7-1)

 → “Cell Broadcasts” → “Switch On/Off”

1. Select “On” or “Off”.

Reading Cell Broadcast Messages (M 4-7-2)

1. When you receive a Cell Broadcast message, press .
2. Press  or  to scroll the screen to read the message.
3. Press  when finished.

Setting Languages (M 4-7-3)

You can select your preferred language for the cell broadcast message display.

 → “Cell Broadcasts” → “Settings” → “Language”

The language list is displayed.

1. Press  or  to highlight the language you wish to set, then press .
2. Press  when finished.

Subscribing to Cell Broadcasts

Select the page of the cell broadcast message that you want.

 → “Cell Broadcasts” → “Settings” → “Set Info Subjects” → “Add/Remove”

1. Select the desired page.
2. Press .

Tip

- *If the desired page is not in the list that appears in step 1, select “Create Subject” before step 1, then enter the subject code to add a page. For details on the subject code, contact your service provider.*

Vodafone live! (M 2)

Your phone is already configured to access Vodafone live! and the mobile internet*.

Customised for



Vodafone live! is a new mobile internet portal which is your gateway to a new world of information, games, music and services.

Because your phone uses GPRS, a system that is much faster than previous ways of getting mobile information. Also, the connection is 'always on' which means there is no need to wait for dialling up. You only have to pay for the data you send or receive, not how long you're connected.

* If you have problems getting connected, please phone Vodafone Customer Support.

Your phone contains a WAP browser used for surfing on the Mobile Internet, where you can get a lot of useful information. Normally, pages are designed for a mobile phone.

Your phone is already setup to Vodafone site for WAP/MMS Settings.

BROWSER BY



OPENWAVE



Starting the WAP Browser

1. Press during stand-by.

To Exit the WAP Browser

1. Press to exit the browser.

Navigating a WAP Page

- : Move the highlights around in the screen.
- : Executes the option displayed in the lower centre of the screen.
- : Launches browser option menu.
- : Selects an action displayed in the lower right corner of the screen.
Used to access “Vodafone live!” by opening the browser.
-  (press and hold):
Starts the “Go to URL”.
-  to  (press and hold):
Starts the Bookmark (WAP).
- : Exits the browser (short press).
Turns off the phone. (press and hold)

Browser Menu

When you are browsing, you can reach browsing options by pressing [Options].

- Select:
Selects the link you wish to see. (“Select” is displayed only when the link is highlighted.)
- Home:
Goes to the homepage you set in the WAP Settings.
- Add bookmark:
Adds the site you are currently browsing to your list of bookmarks.
- View bookmarks:
Displays a list of bookmarks.
- Save items:
Saves pictures, sounds or video clips in the appropriate My Items folder.
- Go to URL:
Inputs the URL of the site you wish to go to.
- History:
Displays a history list.
- Forward:
Moves to the next URL in the history list.

- Reload page:
Refreshes the contents of the WAP page.
- Advanced...:
 - Show URL:
Displays the URL of the site you are currently browsing.
 - Save page:
Saves the page you are currently browsing to your list of Snap Shots.
 - Snapshots:
Displays a list of Snap Shots.
 - Alert inbox:
Displays a list of WAP push messages. You can receive push messages via WAP Services. This means that a service provider sends WAP content to your phone, without any set up.
 - Settings:
Includes “Downloads”, etc.
 - Security:
Sets the security.
 - Clear...:
Clears history, cache, etc.
 - Restart Browser:
Restarts the browser.

Bookmarks

When you are browsing, press [Options] and select the appropriate option.

To Add a Bookmark

1. Select “Add bookmark”.

To Access Bookmarked Pages

1. Select “View bookmarks”.
2. Select the desired bookmark.

To Edit Bookmarks

1. Select “View bookmarks”.
2. Select “More...”.
3. Highlight a bookmark page you wish to edit.
4. Press [Options] and select “Details”.
5. Edit the title, then press .
6. Edit the URL, then press .
7. Select “Save”.

To Delete Bookmarks

1. Select “View bookmarks”.
2. Select “More...”.
3. Highlight a bookmark page you wish to delete.
4. Press [Options] and select “Delete”.
5. Press [Options] and select “OK”.

Setting the Hotkeys to Web Page Bookmarks

You can access Web pages quickly by pressing the shortcut keys (hotkeys). Follow the following to assign shortcuts.

1. Select “View bookmarks”.
2. Select “More...”.
3. Highlight a bookmark page you wish to edit.
4. Press [Options] and select “Hotkeys”.
The list of hotkeys is displayed.
5. Select the number to which you wish to assign hotkeys.
The list of registered bookmarks is displayed.
6. Select the desired bookmark.

My Items (M 6)

My Items contains several types of picture, sound and video clip data. Also included in My Items are frequently used text message phrases and accessed WAP pages (addresses) which you can use. You can also transmit picture, sound and video clip data via infrared or *Bluetooth* wireless technology to OBEX-enabled phones.

Pictures (M 6-1)

Pictures that are taken by a digital camera or images that are downloaded from mobile Internet sites can be managed.

- : PNG format
- : JPEG format
- : GIF format
- : BMP format
- : WBMP format
- : WPNG format

Note

- *The phone can store approximately 1.8 Mbytes of data across Pictures, Games & More, Sounds and Videos.*

Viewing Pictures

“My Items” → “Pictures” → “Saved Pictures”

1. Select the file you wish to view.

The selected picture is displayed.

Using Images as Wallpaper

“My Items” → “Pictures” → “Saved Pictures”

The list of pictures is displayed.

1. Highlight the file you wish to use as wallpaper.
2. Press [Options] and select “Set as Wallpaper”.
3. Specify the area you wish to display using the navigation keys.

Saving to Contacts List

You can use this option only for pictures saved in the handset memory.

“My Items” → “Pictures” → “Saved Pictures”

1. Highlight the file you wish to add to Contacts List.
2. Press [Options] and select “Add to Contact”.

To overwrite, select “Existing Contact” and select the data you wish to save to.

If the picture size exceeds 120 dots in width or 160 dots in height, specify the area you wish to display.

To save as a new entry, select “New Contact”.

For details on entering a name, see “Add New Contact” on page 30.

Editing Pictures

“My Items” → “Pictures” → “Saved Pictures”

1. Highlight the file you wish to edit.
2. Press [Options] and select “Edit”.
3. Select the desired option:

“Rotate”: The picture is rotated 90° anticlockwise. Press [Rotate] again for another 90°.

“Adjust Size”: Select the desired option.

“Retouch”: Select the retouching option.

“Add Frame”: Select the desired frame pattern.

“Add Stamps”: Press [Stamps] and select the desired stamp pattern. Repeat this step to add more patterns.

Note

- *The size of pictures that you can rotate or add a frame to is 120 dots [W] × 160 dots [H] or 160 dots [W] × 120 dots [H] maximum.*
- *The size of pictures that you can retouch is 26 dots [W] × 26 dots [H] minimum and 120 dots [W] × 160 dots [H] or 160 dots [W] × 120 dots [H] maximum.*
- *The size of pictures that you can add stamps to is 12 dots [W] × 12 dots [H] minimum and 120 dots [W] × 160 dots [H] or 160 dots [W] × 120 dots [H] maximum.*
- *“Adjust Size” may not be available depending on the original picture and copyright issued.*

Sending a Picture File

“My Items” → “Pictures” → “Saved Pictures”

1. Highlight the file you wish to send.
 2. Press [Options] and select “Send”.
 3. Select “As Multimedia” or “As Postcard”.
- For details on creating a message, see “Creating a New MMS” on page 43.

Note

- *Pictures with a faint icon cannot be sent attached to a message.*
- *MMS Postcard service may not be available on all networks. Contact your network operator for more information.*

Tip

- *For details on transmitting My Items data, see “Sending My Items Data to OBEX-enabled Phones” on page 63.*

Uploading Picture Files

You can upload your pictures to the Media Album. This option may not be available on all networks. Contact your network operator for more information.

“My Items” → “Pictures” → “Saved Pictures”

1. Highlight the file you wish to upload.
2. Press [Options] and select “Send”.
3. Select “To Album”.
4. Press [Yes].

Downloading Picture Files (M 6-1-3)

“My Items” → “Pictures” → “More Pictures”

The picture file download site is displayed.

Games & More (M 6-2)

Along with the preloaded application, downloaded applications are stored in Applications.

Note

- *Applications can store up to 50 applications.*

Using Applications

Various kinds of Vodafone specific applications can be used in this phone.

To use applications, download the applications via the mobile Internet.

Some applications offer the ability to connect to a network either within a game or network based application.

Note

- *Applications may be both localised (no connectivity) and network based (using the mobile Internet to update information/play games). The network may charge you more for using network-based applications. Please contact your service provider for more information.*

Downloading Applications

Confirmation Screen

Before downloading the application you are asked to confirm what you are about to receive.

After checking the information on the confirmation screen, the application can be downloaded.

Note

- *User authentication may be required before downloading the application on some information screens.*

Executing Applications (M 6-2-1)

“My Items” → “Games & More” → “Applications”

Downloaded applications are sequentially displayed from the latest one.

1. Select the title of the application you wish to execute.

The selected application is executed.

When using network connection type applications, connection to the network can be selected.

2. To end the application, press  and select [End].

More Games (M 6-2-2)

“My Items” → “Games & More” → “More Games”

1. Select the application you wish to download.
After a WAP browser is displayed variously, the confirmation screen will appear after a whilst.
2. Press [Get] to start downloading.
3. Press [OK] when finished.

Sounds (M 6-3)

The ringtones created using the Melody Editor and the AMR data recorded by Voice Recorder are managed in Saved Sounds. The default ringtones are not contained within Saved Sounds.

- : SMAF format
- : Original ringtone (composed in Melody Editor)
- : Standard MIDI format
- : i Melody format
- : WAVE format
- : AMR format

Tip

- *SMAF (Synthetic music Mobile Application Format) is a format of music data for mobile phones.*

Playing Back Sound Files

“My Items” → “Sounds” → “Saved Sounds”

1. Select the file you wish to play back.

To stop playback, press .

Note

- *This option may not be available in all regions.*

Using the Sound Files as Ringtone

“My Items” → “Sounds” → “Saved Sounds”

1. Highlight the file you wish to use as ringtone.

2. Press [Options] and select “Set as Ringtone”.

The selected sound is automatically used for the ringtone of the current Profiles.

Note

- *Files in AMR or WAVE format cannot be used for the ringtone.*
- *The volume varies depending on the Multimedia Volume settings (p. 87). The volume is 0 when “Multimedia Volume” is set to “Silent”.*

Sending a Sound File with MMS

“My Items” → “Sounds” → “Saved Sounds”

1. Highlight the file you wish to send.
2. Press [Options] and select “Send”.

3. Select “As Multimedia”.

If you select your original ringtone in step 1, perform the following.

4. Select the file format “SMAF”, “MIDI” or “i Melody”.

For details on creating a message, see “Creating a New MMS” on page 43.

Note

- *Sounds with a faint icon cannot be sent attached to a message.*
- *Only the first part of the data is converted if you select “i Melody” in step 4.*

Uploading Sound Files

You can upload your sounds to the Media Album. This option may not be available on all networks. Contact your network operator for more information.

“My Items” → “Sounds” → “Saved Sounds”

1. Highlight the file you wish to upload.
2. Press [Options] and select “Send”.
3. Select “To Album”.

If you select your original ringtone in step 1, perform the following.

4. Select the file format “SMAF”, “MIDI” or “i Melody”.

Downloading Sound Files (M 6-3-4)

“My Items” → “Sounds” → “More Sounds”

The sound file download site is displayed.

Videos (M 6-4)

Video clips that are recorded by a video camera or video clips that are downloaded from mobile Internet sites can be managed.

Tip

- The volume varies depending on the Multimedia Volume settings (p. 87). The volume is 0 when “Multimedia Volume” is set to “Silent”.

Playing Back Video Clip Files

“My Items” → “Videos” → “Saved Videos”

1. Select the file you wish to play back.

2. Press .

To resume, press  again.

To stop playback, press [Back].

Sending a Video Clip File with MMS

“My Items” → “Videos” → “Saved Videos”

1. Highlight the file you wish to send.

2. Press [Options] and select “Send”.

3. Select “As Multimedia”.

For details on creating a message, see “Creating a New MMS” on page 43.

Note

- Video clips with a faint icon cannot be sent attached to a message.

Uploading Video Clip Files

You can upload your video clips to the Media Album. This option may not be available on all networks. Contact your network operator for more information.

“My Items” → “Videos” → “Saved Videos”

1. Highlight the file you wish to upload.

2. Press [Options] and select “Send”.

3. Select “To Album”.

4. Press [Yes].

Downloading Video Clip Files (M 6-4-3)

“My Items” → “Videos” → “More Videos”

The video clip file download site is displayed.

Sending My Items Data to OBEX-enabled Phones

Choose the appropriate menu.

“My Items” → “Pictures” → “Saved Pictures”

“My Items” → “Sounds” → “Saved Sounds”

“My Items” → “Videos” → “Saved Videos”

1. Highlight the desired file.
2. Press [Options] and select “Send”.
3. Select “Via Bluetooth” or “Via Infrared”.

The phone starts searching for *Bluetooth* wireless technology enabled devices within 10 metres, or an infrared-enabled device within 20 centimetres.

When an infrared-enabled device is detected, the infrared connection is established and the entry is sent.

When *Bluetooth* wireless technology enabled devices are detected, a list of enabled devices is displayed.

4. Select the desired *Bluetooth* wireless technology enabled device.

The connection is established and the entry is sent.

Note

- You can send a maximum of 100 Kbyte data.

Receiving the My Items Data

When the phone receives the My Items data, a confirmation message appears in the stand-by mode screen.

1. Press [Yes].

The received entry is registered in the corresponding My Items folder.

Tip

- For details on *Infrared* or *Bluetooth* wireless settings, see “Connectivity” on page 95.

Text Templates (M 6-5)

You can register up to 20 text templates for use in text messages and multimedia messages.

120 characters may be registered in any text template.

Adding Phrases to Text Templates

“My Items” → “Text Templates”

1. Select the number you wish to register.
2. Enter the text and press .

Editing Text Templates

“My Items” → “Text Templates”

1. Highlight the number you wish to edit.
2. Press [Options] and select “Edit”.
3. Enter new text and press .

Viewing Text Templates

“My Items” → “Text Templates”

The list of Text Templates is displayed.

1. Highlight the number you wish to view.
2. Press [Options] and select “View”.

Deleting Text Templates

“My Items” → “Text Templates”

1. Highlight the text template you wish to delete.
2. Press [Options] and select “Delete”.

Memory Status (M 6-7)

This function helps you to check the memory status of My Item. Memory status covers Applications, Pictures, Sounds, and Videos.

“My Items” → “Memory Status”

Games & More (M 1)

Applications (M 1-1)

The list of Java™ applications is displayed.

Downloaded applications are displayed in order starting from the latest one.

Executing Applications

For details on executing applications, see “Executing Applications” on page 60.

Setting Permission

When using applications that access the network, you may need online security against data theft or tampering especially for monetary transactions. With this option, you can set the confirmation method when the Java™ application accesses the network.

To Select the Function and Confirmation Method
“Games & More” → “Applications”

1. Highlight the desired Java™ application.
2. Press [Options] and select “Permission”.
3. Select “Net Access” to access billing data on the network.
4. Select the desired confirmation method.

Always Connect: Allows the Java™ application access without confirmation.

First Time: Informs you when the Java™ application uses the function for the first time. If allow is selected, no more confirmations are made until you delete the application.

Per Session: Informs you when the Java™ application uses the function for the first time. If allow is selected, no more confirmations are made until the application finishes operation.

Per Access: Informs you every time the Java™ application uses the function regardless of whether or not you select allow or deny.

Never Connect: Prevents the Java™ application from using the functions and no confirmation is made.

To Reset Permissions

You can reset all permissions you made

“Games & More” → “Applications”

1. Highlight the desired Java™ applications.
2. Press [Options] and select “Reset Permissions”.

Screensavers (M 1-2)

You can download screensaver applications for the stand-by screen.

“Games & More” → “Screensavers” → “Switch On/Off”

1. Select “On” or “Off”.

Note

- *If you select “On” and a screensaver application is not set, a list displaying available screensavers appears, asking you to make a selection.*

Setting the Screensaver (M 1-2-2)

“Games & More” → “Screensavers” → “Set Application”

The downloaded screensaver applications are displayed.

1. Select the desired screensaver application.

Set Network Access (M 1-2-3)

You can set how and whether to connect to the network or not using the screensaver application.

“Games & More” → “Screensavers” → “Set Network Access”

1. Select from “Always Connect”, “Default Settings” or “Never Connect”.

Note

- *Changes made to the above setting whilst the application is suspended are made effective by restarting the application.*
- *You may not be able to make the above settings depending on your network.*

Resume Time (M 1-2-4)

You can set the time period for the screensaver application to activate.

“Games & More” → “Screensavers” → “Resume Time”

1. Enter the resume time in two digits using the digit key.

More Games (M 1-3)

You can download applications.

“Games & More” → “More Games”

The application download site is displayed.

1. Select the application you wish to download.
After a WAP browser is displayed variously, the confirmation screen will appear after a whilst.
2. Press [Get] to start downloading.
3. Press [OK] when finished.

Settings (M 1-4)

Calls & Alarms (M 1-4-1)

You can set the priority of incoming calls and alarms whilst an application is operating.

“Games & More” → “Settings” → “Calls & Alarms”

1. Select “Incoming Call” or “Alarm”.
2. Select methods.
 - “Call Priority” or “Alarm Priority”:
The application is suspended automatically, and you can receive a call, or the alarm will sound. After finishing the call or the alarm ends, the suspend icon () is displayed letting know there is a suspended application.
 - “Call Notice” or “Alarm Notice”:
The marquee (character scrolls) is displayed on the first line of the screen whilst the application continues. If you press , the application is suspended, and you can receive a call. After finishing the call, the suspend icon () is displayed letting know there is a suspended application.

Sound Volume (M 1-4-2)

You can set the volume of the application such as sound effect to one of the five levels or silent. When “Multimedia Volume” (p. 87) is set to “Silent”, this setup has priority.

“Games & More” → “Settings” → “Sound Volume”

The current volume level is displayed.

1. Press  to increase the volume or press  to decrease the volume.

Backlight (M 1-4-3)

“Games & More” → “Settings” → “Backlight” → “Switch On/Off”

1. Select from “Always On”, “Always Off” or “Normal Settings”.
 - “Always On”: Lit whilst the application is operated.
 - “Always Off”: Unlit whilst the application is operated even if a key is pressed.
 - “Normal Settings”: Works with the main backlight setting. (p. 89)

To Set the Blinking Operation

This setting enables the backlight to be controlled by the application. If set to “Off”, the backlight cannot be turned on from the application.

“Games & More” → “Settings” → “Backlight” → “Blink”

1. Select “On” or “Off”.

Vibration (M 1-4-4)

When the vibrator is set in the application, you can choose whether the operation is enabled or disabled.

When a SMAF file is specified in the application, you can operate the vibrator set in the SMAF file.

Note

- *SMAF (Synthetic music Mobile Application Format) is a music data format for mobile phones.*

“Games & More” → “Settings” → “Vibration”

1. Select from “On”, “Off” or “On & Link to Sound”.

When you set “On & Link to Sound”, the sound of SMAF file in the application is synchronised with the vibrator.

Reset (M 1-4-5)

To Reset All Items in Settings Menu

“Games & More” → “Settings” → “Set to Default”

1. Enter your handset code.

The default handset code is “0000”. For details on changing the handset code, see “To Change Handset Code” on page 101.

Java™ Information (M 1-5)

The information about the license belonging to Java™ can be displayed.

Applications (M 3)

SIM Application (M 3-1)

You can refer to the information on the SIM. Contact your service provider for further details.

Alarms (M 3-2)

Setting the Alarms

The alarm function allows you to be alerted at a specified time.

Note that the alarm may not function correctly if the clock has not been set.

“Applications” → “Alarms”

1. Select the blank setting.
2. Enter the desired time.

To Change the Type of Alarm Tone

3. Select “Set Alarm Tone”.
4. Select “Tone”.
5. Select “Preset Sounds” or “My Sounds”.
6. Select the desired tone.

For details on selecting a ringtone, see “Assigning Ringtone” on page 85.

To Change the Vibration of Alarm Tone

7. Select “Vibration”.
8. Select “On”, “Off” or “On & Link to Sound”.

To Change the Duration of Alarm Tone

9. Select “Duration”.
10. Enter the desired time (02-59).
11. Press [Back].

To Set the Repeating Option

12. Select “Repeat Daily”.
13. Select “On”.
14. Press [Save].

Editing the Alarm Setting

“Applications” → *“Alarms”*

1. Select the desired setting and edit it.

Resetting an Alarm Setting

“Applications” → *“Alarms”*

1. Select the alarm you wish to reset.
2. Select “Reset Alarm”.

Resetting All Alarm Settings

“Applications” → *“Alarms”*

1. Select “Clear All”.

Calculator (M 3-3)

The calculator function performs the 4 arithmetic calculations using up to 12 digits.

“Applications” → *“Calculator”* → *“Calculator”*

The calculator is displayed on the display.

Key operations for calculation are as follows.

To enter a decimal point, press .

To clear the entered number or operand, press [Clear].

To do the calculations, press .

To start a new calculation, press [Clear].

Rate Conversion (M 3-3-2)

You can also use the calculator as a currency calculator to convert from/to a home currency using a conversion rate that you enter.

To Set a Currency Conversion Rate

“Applications” → “Calculator” → “Exchange Rate”

1. Select “Foreign -> Domestic” or “Domestic -> Foreign”.
2. Enter the currency conversion rate.
To delete all digits, press [Clear].

To Convert a Value

“Applications” → “Calculator” → “Calculator”

1. Enter the value to be converted.
2. Press [Options] and select “In Domestic” or “In Foreign”.

The result is displayed.

If you select “Exchange Rate” in step 2, you can set a currency conversion rate.

Note

- You cannot perform step 1 when an arithmetic symbol (+, -, × or ÷) is displayed.

Voice Recorder (M 3-4)

This allows you to record a voice clip of up to 60 seconds, which can be used to remind you of schedule entries or be sent within a multimedia message. The recorded voice clip is registered in Saved Sounds. Voice clips are saved in “.amr” format.

Recording a Voice Clip

“Applications” → “Voice Recorder”

1. Press  to start recording.
To stop recording before the recording time is over, press .
2. Select “Save” to save the voice clip.
To play back the recorded voice clip, select “Playback”.
To record a voice clip again, press [Cancel] .

Note

- To change recorded size before recording, press [Options] and select “Record Size”. Then select “Extended Voice” or “For Message”.

Tip

- The volume varies depending on the Multimedia Volume settings (p. 87). To adjust the volume, press  or , or the side-up or side-down key. The volume is 0 when “Multimedia Volume” is set to “Silent”.
- You can also activate Voice Recorder by pressing , then  during stand-by.

Sending Voice Clips

“Applications” → “Voice Recorder”

1. Press  to start recording.
2. Press  to stop recording.
3. Select “Save and Send”.

For details on creating a message, see “Creating a New MMS” on page 43.

Note

- “Save and Send” is not displayed after recording in extended voice mode.

Melody Editor (M 3-5)

You can create an original ringtone, or you can send a melody attached to a multimedia message.

You can input up to 95 tones × 32 voices, 190 tones × 16 voices, or 380 tones × 8 voices per melody.

The original ringtone is registered in Saved Sounds.

Creating Your Original Ringtone (M 3-5-1)

“Applications” → “Melody Editor” → “Create New”

1. Enter the title.

Up to 24 characters can be entered.

2. Select a tempo.

The music tempo is described below.

- “Allegro (Fast)”: 150
- “Moderato (Normal)”: 125
- “Andante (Slow)”: 107
- “Adagio (Very Slow)”: 94

3. Select from “8 Chords”, “16 Chords” or “32 Chords”.

4. Press the digit keys to specify the musical scale and rest.

For details on specifying the sound level and rest, see “To Specify the Musical Scale and Rest” on page 75.

5. Press  or  to specify the types of musical notes or rest.

For details on specifying the musical notes and rest, “To Specify the Types of Notes and Rests” on page 75.

6. Press  after inputting one note.

Input the next note after the cursor moves to the right.

7. Repeat steps 5 and 7 to input notes.

When entering notes, you can do the following:

- Press  to play back all input notes.
- Press [Options] and select:
 - “Play before cursor” to play back notes up to the cursor position.
 - “Select Part” to select another chord.
 - “Set Tone” to set or change the tone using different instruments. (p. 76)
 - “Set Strength” sets the strength of the original ringtone. (p. 76)

- To specify the types of notes or rests, see page 75.
8. When you finish inputting, press [Options] and select “Save”.
9. Select “Save to My Items”.

Note

- *If the capacity or memory in Saved Sounds becomes insufficient, the message, “Maximum capacity : 200 Not registered.” or “Not registered. Memory full.” is displayed. The screen returns to step 9. Try again after deleting unnecessary data.*
- *Melodies consisting of too many short notes (semiquavers and triplets) cannot be played back in step 8 and the following message is displayed: “Can not play due to too many notes per sec.” The screen returns to step 5. The message “Can not save due to too many notes per sec.” may also be displayed, and the screen returns to step 5. Reduce the number of melodies, replace short notes, cancel triplets, etc. to remedy.*

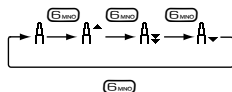
To Specify the Musical Scale and Rest

Using the keys shown below, specify the musical scale and rest.

Do	Re	Mi	Fa	Sol	La	Ti	Rest
1 DO	2 ABC	3 DEF	4 GHI	5 JKL	6 MNO	7 PQRS	0 _

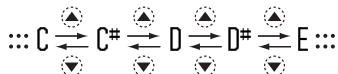
When you press the key shown above once, a crotchet is specified in the middle scale (no mark).

When you press the same key repeatedly, the note will shift cycle through the available octave ranges.



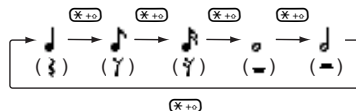
When you press ▲ or ▼ whilst a note is selected, the note will move one semitone higher or lower.

When entering rest, crotchet rest is entered.

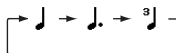


To Specify the Types of Notes and Rests

Press *+0 or #+0 repeatedly.



When you make a dotted note or a triplet, press 9 after selecting the target note.



Note

- You cannot make a dotted semiquaver (semiquaver rest) or a dotted semibreve (semibreve rest).
- Three continuous notes are required for a triplet.

To specify a tie, press 8 after selecting the target notes.

An underscore (_) is displayed next to the note, and the note is tied with the next one.

To enter the next note, press ► to move the cursor to the right. Then, repeat the operation on the previous pages.

If the cursor is positioned next to a note, you can repeat the note immediately left of the cursor when  or  is pressed.

To Set the Tone

The phone can play notes using different instruments.

You can select from 128 basic tones (8 types of: Pianos, Chimes, Organs, Guitars, Basses, Strings 1, Strings 2, Brasses, Reeds, Flutes/Pipes, Synth Leads, Synth Pads, Synth Effects, Ethnics, Percussions, and Effects) and 61 extended tones (40 types of Drums FM and 21 types of Drums WT).

1. Press [Options] and select “Set Tone” in step 8 on page 74.
2. Press  or  to highlight a category of the tone.
3. Press  or  to highlight a tone.
4. Press .

Now you can create a melody.

Tip

- You can play back the melody in the selected tone by pressing [Options] and select “Play Current Part”, or play back the syllable names in the selected tone by selecting “Confirm Tones” instead.

To Set the Strength of the Original Ringtone

The strength of the original ringtone can be set in 3 levels for each melody.

When you purchase this phone, the strength of the original ringtone is set to “Loud”.

1. Press [Options] and select “Set Strength” in step 8 on page 74.
2. Select a strength of the tone.
3. Press .

Now you can create an original ringtone.

Editing Original Ringtones (M 3-5-2)

“Applications” → “Melody Editor” → “My Sounds”

1. Highlight an original ringtone you wish to edit.
2. Press [Options] and select “Edit Melody”.
3. Edit the title.
4. Select a tempo and number of voices.

5. Edit the data.
6. When you finish editing, press [Options] and select “Save”.
7. Select “Save to My Items”.
8. Select “Overwrite” or “New”.

Note

- *When the number of voices is modified in step 5, the confirmation message may be displayed. When you press [Yes], a section of the melody may be deleted.*

Tip

- *You can delete the melody after or before the cursor by pressing [Options] and selecting “Del. after cursor” or “Del. before cursor”.*

Copying and Pasting Notes

You can copy and move a part of the melody to another position.

Only original ringtones or editable melodies can be copied or moved.

1. In the Score input screen, press [Options] and select “Copy” or “Cut”.
2. Move the cursor to the first note to be copied or to be cut.

3. Move the cursor to the last note to highlight the area.
4. Press [Options] and select “Paste”.
5. Move the cursor to the point you wish to paste the notes.

Phone Help (M 3-6)

You can view the help list and use it to guide you in the phone’s functions.

“Applications” → “Phone Help”

1. Highlight the desired function.

Calendar (M 7)

Calendar allows you to easily schedule appointments or events, which are associated with the date and time.

These entries can also be sent via infrared or *Bluetooth* wireless technology to a PC to share the same schedules.

Creating a New Entry

“Calendar”

1. Highlight the desired day to which you want to add an event.
2. Press [Options] and select “New Entry”.
3. Select from “Appointment”, “All Day Event” or “Anniversary”.

To Set an Appointment

1. Enter the subject, start time and end time.
2. Select the reminder option.
3. Select and set “Tone”, “Vibration” or “Duration”.
4. Enter the location.
5. Press [Save].

To Set an All Day Event

1. Enter the subject, date and location.
2. Press [Save].

To Set an Anniversary

1. Select the anniversary option from “Ann by date” or “Ann by day”.
2. (For “Ann by date”)

Enter the subject, date (month and day) and location.

(For “Ann by day”)

Enter the subject, date (day of the week, week number and month) and location.

Sending a Schedule Entry

“Calendar”

1. Select the day including schedule entries you wish to send.
2. Select “Via Bluetooth” or “Via Infrared”.

The phone starts searching for *Bluetooth* wireless technology enabled devices within 10 metres, or an infrared-enabled device within 20 centimetres.

When an infrared-enabled device is detected, the infrared connection is established and the entry is sent.

When *Bluetooth* wireless technology enabled devices are detected, a list of enabled devices is displayed.

3. Select the desired *Bluetooth* wireless technology enabled device.

The connection is established and the entry is sent.

Tip

- You do not need to enter your passcode in step 3.
- For details on Infrared or Bluetooth wireless settings, see “Connectivity” on page 95.

Viewing an Entry

“Calendar”

1. Select the day you wish to view.

The day view is displayed.

To Search By Date

1. In the monthly or daily view, press [Options].
2. Select “Go to”.
3. Select “Today” to display today or “Enter date” to enter the desired date.

To Search By Subject

1. In the monthly or daily view, press [Options].
2. Select “Find”.
3. Enter the desired text.

To Change the Week Format

1. In the monthly view, press [Options].
2. Select “Week Format”.
3. Select “Monday-Sunday” or “Sunday-Saturday”.

Deleting Entries

1. In the monthly or daily view, press [Options].
2. Select “Delete”.
3. Select the desired option.
 - “This Appointment”:(daily view only)
Deletes the selected appointment.
 - “All this Day”: Deletes all entries for the selected day.
 - “All this Month”: Deletes all entries for the selected month.
 - “Up to Last Month”:
Deletes all entries from the last month to the selected month.
 - “All Schedules”: Deletes all entries in this application.

Contacts (M 8)

Call Log (M 8-3)

The phone will record the last 10 missed calls, received calls and dialled numbers.

Viewing Call Log

“Contacts” → “Call Log”

1. Select from “All Calls”, “Dialled Numbers”, “Missed Calls”, or “Received Calls”.

The selected call log list is displayed.

2. Select the phone number you wish to view.

If you wish to dial the number, press .

Call log “1” is the most recent. When you press , call log “2” is displayed.

Tip

- You can also confirm call logs by pressing  during stand-by mode.

Sending Messages

1. In call log list, highlight the call log you wish to send a message to.

The selected call log is displayed in detail.

2. Press [Options] and select “Create Message”.
3. Select “Multimedia” or “Text”.

For details on creating a message, see “Creating a New MMS” on page 43 or “Creating and Sending a New SMS” on page 49.

Deleting a Call Log

1. In call log list, press [Options] and select “Delete”.

Speed Dial List (M 8-4)

You can view and perform other operations for phone numbers registered in the Speed Dial List.

“Contacts” → “Speed Dial List”

The names and phone numbers stored in the Speed Dial List are displayed in order.

My Numbers (M 8-5)

You can check your own voice, data and fax phone numbers.

“Contacts” → “My Numbers”

1. Select the phone number you wish to check from “Voice”, “Data” or “Fax”.

Note

- *“Data” or “Fax” may not be displayed depending on the SIM card.*

Call Timers (M 8-6)

This function lets you check the duration of your calls.

Checking the Duration of the Last Call and All Calls

“Contacts” → “Call Timers”

1. Select “Received Calls” or “Dialled Numbers”.

The duration of the last call or all calls is displayed.

Data Counter (M 8-7)

You can confirm the amount of bytes that you used in the GPRS transmission.

“Contacts” → “Data Counter”

1. Select from “Last Data” or “All Data”.

Resetting All Data Counter

“Contacts” → “Data Counter” → “Clear Counter”

Call Costs (M 8-8)

This function lets you check the charges for your calls.

Some networks do not support Charging Advice.

Please check with your service provider for availability.

Checking the Cost of the Last Call

“Contacts” → “Call Costs” → “Last Call”

The cost of the last call is displayed.

Checking the Total Call Cost

“Contacts” → “Call Costs” → “All Calls”

The cost of all calls is displayed.

Setting the Charge Rate

Set the charge rate to calculate the call cost and set the maximum limit for call cost.

“Contacts” → “Call Costs” → “Costs Units” → “Set Units”

1. Enter your PIN2 code.

2. Enter a cost per unit.

To enter a decimal point, press $\frac{\square}{\square}$.

3. Enter a currency unit (up to 3 characters).

Setting the Charge Limit

This function is useful if you wish to make sure you do not exceed a certain charge limit.

“Contacts” → “Call Costs” → “Max Cost” → “Set Limit”

1. Enter your PIN2 code.

2. Enter a value.

To enter a decimal point, press $\frac{\square}{\square}$.

Resetting All Call Costs

“Contacts” → “Call Costs” → “Clear Costs”

1. Enter your PIN2 code.

Settings (M 9)

Profiles (M 9-1)

Tone sound and vibration set can be customised for each profile according to your environment.

There are 6 profiles including one user definable profile: Normal, Meeting, Activity, Car, Headset and Silent.

Activating a Profile

“Settings” → “Profiles”

1. Select the desired profile.

Note

- *When a profile is set, the corresponding icon described on page 15 is displayed on the stand-by screen.*

Tip

- *Press and hold  to switch Profiles settings between Normal and Silent mode during stand-by.*

Customising Profiles

“Settings” → “Profiles”

1. Highlight the profile you wish to customise.
2. Press [Options] and select “Personalise”.

3. Select the setting you wish to customise and change as desired.

For details about settings, pages 84 to 88.

4. Press [Save] when finished.

Resetting Profile Settings

“Settings” → “Profiles”

1. Highlight the profile you wish to reset.
2. Press [Options] and select “Set to Default”.
3. Enter your handset code.

The default handset code is “0000”. For details on changing the handset code, see “To Change Handset Code” on page 101.

Ringer Volume

You can adjust the ringer volume to one of 6 levels or a step tone.

“Settings” → “Profiles”

1. Highlight the profile you wish to customise.
2. Press [Options] and select “Personalise”.

3. Select “Ringer Volume”.

The current volume level is displayed.

4. Press to increase the ringer volume or press to decrease the ringer volume and then press .

To select “Step Tone”, press  at level 5.

To select “Silent”, press  at level 1.

Assigning Ringtone

You can select the ringtone from 28 tones including 5 patterns, 13 sound effects and 10 melodies. You can also select a sound in Saved Sounds as the default ringtone excluding the AMR or WAVE format.

“Settings” → “Profiles”

1. Highlight the profile you wish to customise.

2. Press [Options] and select “Personalise”.

3. Select “Assign Ringtone”.

4. Select “Preset Sounds” or “My Sounds”.

5. Select the ringtone you wish to use.

To hear the demo play, press . To stop playing, press  again.

6. Press [Options] and select “Assign”.

Note

- If you delete a ringtone that uses a sound in Saved Sounds, the default ringtone is set.

Vibration

When the vibrator option is set on, the phone will vibrate for incoming calls regardless of the ringer volume and tone settings.

“Settings” → “Profiles”

1. Highlight the profile you wish to customise.

2. Press [Options] and select “Personalise”.

3. Select “Vibration”.

4. Select from “On”, “Off” or “On & Link to Sound”.

Tip

- When the “On & Link to Sound” option is selected in step 4, the vibrator synchronises with your selected melody to pulse in time with the melody. Please note that not all melodies support the “On & Link to Sound” option. Should you select such a melody, only the “On” option in step 4 will allow vibrator function.
- When you select “On” or “On & Link to Sound” in step 4,  is displayed on the stand-by screen.

Alerts

You can personalise profiles for alerts including warning tone, message alert and low battery alert.

Warning Tone

Your phone emits the warning tone when an error occurs.

“Settings” → “Profiles”

1. Highlight the profile you wish to customise.
2. Press [Options] and select “Personalise”.
3. Select “Alerts”.
4. Select “Warning tone”.
5. Select “Switch On/Off”.
6. Select “Volume” and select from “High”, “Middle” or “Low”.
7. Select “Tone” and select “Preset Sounds” or “My Sounds”.
8. Select “Duration” and select the desired time.

Message Alert

When receiving messages, special ringtones can be set.

“Settings” → “Profiles”

1. Highlight the profile you wish to customise.
2. Press [Options] and select “Personalise”.
3. Select “Alerts”.
4. Select “Message Alert”.
5. Select from “Multimedia”, “Text” or “WAP”.
6. Select “Volume” and select the desired volume.
7. Select “Sound” and select “Preset Sounds” or “My Sounds”.
8. Select “Vibration” and select from “On”, “Off” or “On & Link to Sound”.
9. Select “Duration” and select the desired time.

Keypad Tones

When the keypad tone is set on, you will hear a confirmation tone each time you press any keys.

“Settings” → “Profiles”

1. Highlight the profile you wish to customise.
2. Press [Options] and select “Personalise”.
3. Select “Keypad Tones”.
4. Select “Switch On/Off” and select “On”.
Select “Off” to cancel.
5. Select “Volume” and select from “High”, “Middle” or “Low”.
6. Select “Tone” and select from “Preset Sounds”, “My Sounds” or “Default Tone”.
When selecting “Default Tone”, go to step 8.
7. Select the desired tone.
For details on assigning the tone, see “Assigning Ringtone” on page 85.
8. Select “Duration” and select the desired time.

Multimedia Volume

You can adjust volume for Video Camera, Voice Recorder, Melody Editor, My Items, browser and multimedia messages.

“Settings” → “Profiles”

1. Highlight the profile you wish to customise.
2. Press [Options] and select “Personalise”.
3. Select “Multimedia Volume”.
The current volume level is displayed.
4. Press  to increase the volume or press  to decrease the volume and then press .
To select “Silent”, press  at level 1.

Power On Sound / Power Off Sound

The phone can be set to emit a sound when it is switched on or off. You can define the volume, duration and the melody to be used for this task.

“Settings” → “Profiles”

1. Highlight the profile you wish to customise.
2. Press [Options] and select “Personalise”.
3. Select “Power On Sound” or “Power Off Sound”.
4. Select “Volume” and select the desired volume.
5. Select “Sound” and select “Preset Sounds” or “My Sounds”.
6. Select “Duration” and select the desired time.

Echo Reduction

This function is for reducing irritating echoes, especially when using the handsfree car kit.

“Settings” → “Profiles”

1. Highlight the profile you wish to customise.
2. Press [Options] and select “Personalise”.
3. Select “Echo Reduction”.
4. Select “On” or “Off”.

Any Key Answer

You can also answer a call by pressing any key except  or [Busy]. For details, see page 19.

“Settings” → “Profiles”

1. Select the profile you wish to customise.
2. Press [Options] and select “Personalise”.
3. Select “Any Key Answer”.
4. Select “On” or “Off”.

Setting the Display (M 9-2)

You can change the settings of the screen.

Wallpaper

For the stand-by screen, 3 pictures are provided. Pictures taken with the digital camera or images downloaded from a WAP site can be used for wallpapers.

Setting My Pictures

“Settings” → “Display” → “Wallpaper” → “My Pictures”

1. Select the desired picture.
2. After displaying the picture, press .
3. Specify the area you wish to display using the navigation keys.

Note

- *Some pictures cannot be used because of their picture and data types.*

Assigning the Pictures

Pictures can be displayed when turning the power on or off, when receiving an incoming call, or when operating the alarm.

Pictures taken by a digital camera or images downloaded from a WAP site can be used.

To Set Built-in Pictures

“Settings” → “Display” → “Graphics”

1. Select the desired situation to set the picture.
2. Select “Preset Animation” when you select “Power On” or “Power Off” in step 1.
Select “Pattern 1”, “Pattern 2” or “Pattern 3” when you select “Incoming Call” or “Alarm” in step 1.

To Set My Pictures

“Settings” → “Display” → “Graphics”

1. Select the desired situation to set the picture
2. Select “My Pictures”.
3. Select the picture.
4. Specify the area you wish to display using the navigation keys.

Note

- *Some pictures cannot be used because of their picture and data types.*

Setting the Greeting Message

You can set the message which will appear when the phone is turned on.

“Settings” → “Display” → “Greeting Message” → “Switch On/Off”

1. Select “On” to display the greeting message when the phone is turned on.
Select “Off” for no message.
2. Select “Edit Message” and enter the message.
Up to 16 characters can be stored as a message.
For details on entering characters, see “Entering Characters” on page 24.

Showing the Clock (M 9-2-4)

You can display the current date and/or time on the stand-by screen.

“Settings” → “Display” → “Show Clock”

1. Select from “Time Only”, “Date & Time” or “Off”.

Backlight

You can turn the backlight of the screen on or off when you press the keypad or the optional cigarette lighter charger is connected to the phone.

You can change time the backlight is on for, which will help conserve battery life.

Tip

- When you purchase this phone, Backlight is set to 15 seconds.

To Select the Backlight Time Out

“Settings” → “Display” → “Backlight” → “Time Out”

1. Select “On” or “Off”.

To Turn On/Off the Backlight whilst Charging with the Cigarette Lighter Charger

With this setting On, the phone’s backlight is on when the cigarette lighter charger is connected.

“Settings” → “Display” → “Backlight” → “In Car”

1. Select the desired time.

Adjusting the Brightness of the Backlight

You can adjust the brightness of the backlight of the screen from 4 levels.

“Settings” → “Display” → “Brightness”

1. Adjust the brightness by pressing  (Light) and  (Dark) for maximum clarity.
2. Press .

Setting the Display Saving

This phone’s screen will automatically turn off after a given amount of time.

You can change the time before the Display Saving will go into effect, which will help conserve battery life.

Tip

- When you purchase this phone, Display Saving is set to 2 minutes.

“Settings” → “Display” → “Display Saving”

1. Select the desired time.

Note

- Display Saving does not work whilst you are calling, using WAP, or using an application.
- To cancel the Display Saving: The display saving continues until either a key is pressed or there is an incoming alert. The first key press only cancels this function. You must press another key in order to input any numerical or text value.

Display Setting Reset (M 9-2-8)

The phone settings can be reset to their default settings.

“Settings” → “Display” → “Set to Default”

1. Enter your handset code.

Call Settings (M 9-4)

Set various types of functions and services.

Diverts (M 9-4-1)

This service is used to divert incoming calls to your voice mail system or to another number depending on certain conditions in which you cannot answer a call.

To Divert Calls

“Settings” → “Call Settings” → “Diverts”

1. Select one of the following options.
 - “All Calls”: Diverts all voice calls without ringing.
 - “When Busy”: Diverts incoming calls when you are on a call.
 - “No Answer”: Diverts incoming calls if you do not answer a call within a certain period of time.
 - “Not Reachable”: Diverts incoming calls when your phone is out of network service or switched off.
2. Select “On”.
3. Enter a phone number to which you wish to divert calls or search for it in the Contacts List. (p. 31)

4. Press .

If you select “No Answer” in step 1:

5. Select the period of time from 6 levels (05 to 30 seconds).

Note

- When a divert is set to “All Calls”, “ ” is displayed on the stand-by screen.

Tip

- If you select “By Service” in step 2, you can select further divert options.

To Check the Divert Status

“Settings” → “Call Settings” → “Diverts”

1. Select the divert option you wish to check.
2. Select “Status”.

You can check the status of the selected divert option.

Call Waiting (M 9-4-2)

If you wish to be able to receive another incoming call whilst you have a call in progress, you must activate the Call Waiting service.

“Settings” → “Call Settings” → “Call Waiting”

1. Select “On” or “Off”.

Note

- *The Call Waiting service may not be available on all mobile phone networks. Contact your network operator for more information.*

Showing Your Phone Number (M 9-4-3)

This lets you control whether to show your phone number when calling another party or not.

Some networks do not support this service. Please check with your service provider for availability.

“Settings” → “Call Settings” → “Show Your Number”

1. Select “On” or “Off”.

Note

- *Some networks do not support this service. Please check with your service provider for availability.*

Restrict Calls (M 9-4-4)

This function lets you place restrictions on incoming and outgoing calls. To activate this option you will need the specified password, which is available from your service provider.

“Settings” → “Call Settings” → “Restrict Calls”

1. Select from “Outgoing Calls” or “Incoming Calls”.

- Outgoing Calls: Restricts outgoing calls.
- Incoming Calls: Restricts incoming calls.

2. (For “Outgoing Calls”)

Select “Bar Foreign Calls” or “Bar All Outgoing Calls”.

- Bar Foreign Calls: Restricts all outgoing international calls.
- Bar All Outgoing Calls: Restricts all outgoing calls except emergency calls.
- Only Local & Home: Restricts all outgoing international calls except to your home country.

(For “Incoming Calls”)

- Bar All Incoming Calls: Restricts all incoming calls.

- Bar if Abroad: Restricts all incoming calls when you are outside of the coverage from your registered network operator.
3. Select one of the following options.
 - “All Services”: Restricts all services.
 - “Voice Calls”: Restricts all voice calls.
 - “Data”: Restricts all data calls.
 - “Fax”: Restricts all fax calls.
 - “Messages”: Restricts all messages.
 - “All except msgs”: Restricts all services except messages.
 4. Select “On” or “Off”.
 5. Enter the network password.

To Cancel Settings

“Settings” → “Call Settings” → “Restrict Calls”

1. Select “Outgoing Calls” or “Incoming Calls”.
2. Select “Cancel All”.
3. Enter the network password.

Fixed Dialling No.

When the Fixed Dialling No. is enabled, you can only call predefined numbers.

To Enable Fixed Dialling No.

“Settings” → “Call Settings” → “Restrict Calls” → “Fixed Dialling No.”

1. Enter your PIN2 code.
2. Select “Switch On/Off”.
3. Select “On” or “Off”.

To Add a New Name

“Settings” → “Call Settings” → “Restrict Calls” → “Fixed Dialling No.”

1. Enter your PIN2 code.
2. Select “Edit Dial List”.
3. Press [Options] and select “Add New Contact”.
4. Add a name and a phone number.

For details on adding a name and a phone number, see “Add New Contact” on page 30.

5. Press [Save].

Changing the Network Password

“Settings” → “Call Settings” → “Restrict Calls” → “Change Password”

1. Enter the old network password.
2. Enter a new network password.
3. Enter a new network password again.

If you enter the incorrect password, you are asked to enter the password again.

4. Press .

Auto Redial (M 9-4-5)

See “Automatic Redialling” on page 19.

Minute Minder (M 9-4-6)

Minute Minder function informs you of your talk time by sounding a tone after every minute.

“Settings” → “Call Settings” → “Minute Minder”

1. Select “On” or “Off”.

Call Setting Reset (M 9-4-7)

The call settings can be reset to their default settings.

“Settings” → “Call Settings” → “Set to Default”

1. Enter your handset code.

Date & Time (M 9-5)

You need to set the correct time and date in order for your phone’s various time-based functions to work correctly.

“Settings” → “Date & Time” → “Set Date/Time”

1. Enter the day, month, year and time using the digit keys.

Tip

- When you enter the time in the 12-hour format, press  to switch between am and pm. The order in which the date and time is displayed is based on the format setting.

Selecting the Time Format

“Settings” → “Date & Time” → “Time Format”

1. Select “12 hour” or “24 hour”.

Selecting the Date Format

“Settings” → “Date & Time” → “Date Format”

1. Select from “D.M.Y”, “M-D-Y”, or “Y/M/D”.

Setting the Daylight Saving

“Settings” → “Date & Time” → “Daylight Saving”

1. Select “On” or “Off”.

Setting the Time Zone

“Settings” → “Date & Time” → “Time Zone” → “Change Zone”

1. Press  or  to select the home city to set.

Customising the Time Zone

“Settings” → “Date & Time” → “Time Zone” → “Set Custom Zone”

1. Enter the time-zone differences using the digit keys.
Pressing  switches between – and +.

Changing the Language (M 9-6)

You can change the language that the phone uses to display messages.

“Settings” → “Language”

1. Select the desired language.

Tip

- You can also change the input language on the text entry screen (p. 25).

Note

- If you select “Automatic” in step 1, the language preset on the SIM card is selected.
- If the language preset on the SIM card is not supported, then the default language of the phone is selected.

Connectivity (M 9-7)

By using this menu, you can connect your phone to a *Bluetooth* wireless technology enabled device via the connection, or to a PC via the Infrared connection or a USB cable.

Using the Bluetooth Wireless Function (M 9-7-1)

To Turn On or Off

“Settings” → “Connectivity” → “Bluetooth” → “Switch On/Off”

1. Select “On” or “Off”.

If the infrared setting has been activated, you will be asked whether you wish to deactivate it or not. Press [Yes].

The *Bluetooth* wireless setting is activated, and  is displayed on the stand-by mode screen.

To Search for Devices to be Paired

For using the *Bluetooth* wireless function, you need to search for other *Bluetooth* wireless technology enabled devices to establish contact with your phone. Keep your phone within a distance of 10 metres before searching.

“Settings” → “Connectivity” → “Bluetooth” → “Search for Devices”

The phone starts searching for devices within 10 metres.

1. Select the desired device for pairing.
2. Enter the device passcode.

Note

- If the *Bluetooth* wireless function is off before searching, the phone turns the *Bluetooth* wireless function on automatically and starts searching.
- If the *infrared* function is active, the confirmation screen to deactivate the *infrared* function is displayed. Press [Yes] to deactivate.
- You can only select one device for pairing. To change the paired device, see “Paired Devices”.

Paired Devices

You can activate, rename, and delete the paired device in the list.

To Activate a Device

“Settings” → “Connectivity” → “Bluetooth” → “Paired Devices”

1. Select the device you wish to activate.

Tip

- You can save battery power by turning the *Bluetooth* wireless function off whilst it is not in use. Turn the *Bluetooth* wireless function off in “To Turn On or Off” on page 95 or in “To Turn Off Automatically”.
- During a call, you can divert voice call to the paired device. Press [Options] and select “Enable *Bluetooth*”. If you wish to disconnect the paired device, select “Disable *Bluetooth*”.

To Rename a Device

“Settings” → “Connectivity” → “Bluetooth” → “Paired Devices”

1. Highlight the device you wish to rename.
2. Press [Options] and select “Change Name”.
3. Rename the device.

To Clear a Device Name

“Settings” → “Connectivity” → “Bluetooth” → “Paired Devices”

1. Highlight the device you wish to clear.
2. Press [Options] and select “Delete”.

Bluetooth Wireless Settings

You can prevent other GX15 phones from recognising your phone, or turn the *Bluetooth* wireless function off automatically to save battery power.

To Show or Hide Your Phone

“Settings” → “Connectivity” → “Bluetooth” → “Bluetooth Settings” → “Visibility”

1. Select the desired visibility settings:
“Show My Phone”: Allows other devices to recognize your phone.
“Hide My Phone”: Hides your phone from other devices.

To Turn Off Automatically

“Settings” → “Connectivity” → “Bluetooth” → “Bluetooth Settings” → “Bluetooth Time Out”

1. Select the desired time.
Your phone turns the function off automatically for the specified time.

Using the Infrared Function

To Turn the Infrared Function On or Off (M 9-7-2)

“Settings” → “Connectivity” → “Infrared”

1. Select “On” or “Off”.

If the *Bluetooth* wireless function has been activated, you will be asked whether you wish to deactivate it or not. Press [Yes].

“” will appear on the screen.

The infrared setting will return to off when no data is transmitted/received via infrared communication.

PC Software (M 9-7-3)

By connecting your phone to a PC, you can transmit pictures, sounds, video clips, and Contacts List entries. Follow the procedure to select the connection method (*Bluetooth* wireless, USB or Infrared connection). For details on getting the link software, see page 103.

“Settings” → “Connectivity” → “PC Software”

1. Select the desired connection type from “Data Cable”, “Infrared” or “Bluetooth”.

Network (M 9-8)

Network Settings

To Select a Network Automatically

Each time the power is turned on, your phone always tries to connect to the preferred network.

If your phone is not connected to the network, you can perform the following immediately to establish the preferred network connection.

“Settings” → “Network” → “Select Network” → “Automatic”

To Set the Network Manually

“Settings” → “Network” → “Select Network” → “Manual”

1. Select the desired network.

To Add a New Network

“Settings” → “Network” → “Select Network” → “Add New Network”

If there is no entry, press  and go to step 2.

If there is an entry, press  and perform the following steps.

1. Select “Add”.
2. Enter the country code.
3. Enter the network code.

4. Enter a new network name.

To Change the Position of a Network in the Preferred List

“Settings” → “Network” → “Select Network” → “Set Preferred”

1. Select the name of the network to change the position in the list.
2. Select “Insert” or “Add to end”.

To Delete a Network from the Preferred List

“Settings” → “Network” → “Select Network” → “Set Preferred”

1. Select the name of the network you wish to delete.
2. Select “Delete”

WAP/MMS Settings

Note

- *In normal operations, you do not need to change settings.*

WAP Settings (*: Item to be set as mandatory)

“Profile Name”*: WAP profile name (Unique name)

“IP Address”*: IP address

“Homepage”: Homepage

“Port Number”*: Security option (1024-65535)

“Circuit Prompt” (“Enable” or “Disable”):
Circuit prompt

“Connection Type” (“GPRS Then CSD”, “GPRS” or
“CSD”): Bearer connection type

GPRS Settings: Bearer connection type

“APN”*: Access point name

“Username”: Username

“Password”: Password

“Linger Time”: Linger time (0-99999 sec.)

CSD Settings: Bearer connection type

“Phone No.”*: Access point number

“Line Type”: ISDN or analogue

“Username”: Username

“Password”: Password

“Linger Time”: Linger time (0-99999 sec.)

MMS Settings (*: Item to be set as mandatory)

“Profile Name”*: MMS profile name (Unique name)

“IP Address”*: IP address

“Relay Server URL”*: MMS relay server

“Port Number”*: Security option (1024-65535)

“Connection Type” (“GPRS Then CSD”, “GPRS” or
“CSD”): Bearer connection type

GPRS Settings: Bearer connection type

“APN”*: Access point name

“Username”: Username

“Password”: Password

“Linger Time”: Linger time (0-99999 sec.)

CSD Settings: Bearer connection type

“Phone No.”*: Access point number

“Line Type”: ISDN or analogue

“Username”: Username

“Password”: Password

“Linger Time”: Linger time (0-99999 sec.)

To Activate the WAP/MMS Profile

“Settings” → “Network”

1. Select from “WAP Settings” or “MMS Settings”.
2. Highlight the desired profile.
3. Press [Options] and select “Activate”.

To Edit the WAP/MMS Profile

“Settings” → “Network”

1. Select from “WAP Settings” or “MMS Settings”.
2. Highlight the desired profile.
3. Press [Options] and select “Edit”.
4. Edit the desired item and select [Save].

To Copy the WAP/MMS Profile

“Settings” → “Network”

1. Select from “WAP Settings” or “MMS Settings”.
2. Highlight the desired profile.
3. Press [Options] and select “Copy”.
4. Edit the new profile name.

To Delete the WAP/MMS Profile

“Settings” → “Network”

1. Select from “WAP Settings” or “MMS Settings”.
2. Highlight the desired profile.

3. Press [Options] and select “Delete”.

Security (M 9-9)

Auto Keypad Lock (M 9-9-1)

By setting this option on, your phone will lock the keypad in 20 seconds automatically if no operation is performed.

“Settings” → “Security” → “Auto Keypad Lock”

1. Select “On” or “Off”.

Enabling/Disabling the PIN Code (M 9-9-2)

If the PIN code is enabled you are asked to enter the PIN code each time the phone is switched on. Your PIN code is stored on the SIM card and you should have been made aware of the code when you purchased the SIM card. Contact your service provider for further details.

“Settings” → “Security” → “PIN Entry”

1. Select “On” to enable the PIN code.
Select “Off” to disable it.
2. Enter your PIN code.

Note

- If you enter the wrong PIN code three times in step 2, the SIM card will lock. To remove the lock, contact your service provider/SIM card vendor.

To Change PIN Code

This allows you to change the PIN code stored on the SIM card. Before you change the PIN code, select “On” in step 1 in “Enabling/Disabling the PIN Code”.

“Settings” → “Security” → “Change PIN”

1. Enter the existing PIN code.
2. Enter new PIN code.
3. Enter the new PIN code again.

Changing PIN2 Code (M 9-9-3)

PIN2 code is used to protect certain functions in the phone such as Fixed Dialling No. and call cost limits. The following shows you how to change PIN2 code.

“Settings” → “Security” → “Change PIN2”

1. Enter the existing PIN2 code.
2. Enter a new PIN2 code.
3. Enter the new PIN2 code again.

Handset Lock (M 9-9-4)

The Handset Lock is an additional security feature which prevents unauthorised use of the phone or certain features.

“Settings” → “Security” → “Handset Lock”

1. Select “On” or “Off”.
2. Enter your handset code.

To Change Handset Code

Before you change the handset code, select “On” in step 1 in “Handset Lock”. The default handset code is “0000”.

“Settings” → “Security” → “Handset Lock” → “Change code”

1. Enter the old handset code.
2. Enter a new handset code.
3. Enter the new handset code again.

Master Reset (M 9-0)

All settings can be reset to their default settings.

“Settings” → “Master Reset”

1. Enter your handset code.

Connecting GX15 to Your PC

You can use the following functions by connecting the GX15 to your PC using an infrared port, USB port* or *Bluetooth* wireless technology:

- GSM/GPRS modem
 - Handset Manager for GX15
 - *Bluetooth* wireless connection
- * Requires an optional USB data cable XN-1DC30 for USB port connection.

System Requirements

Operating System: Windows® 98*, Windows® Me, Windows® 2000**, Windows® XP***

- * Windows® 98 Second Edition, Windows® 98 Service Pack 1
- ** Service Pack 4
- ***Service Pack 1a

Microsoft® Outlook/Outlook Express

Interface: Infrared port or USB port
CD-ROM drive

GSM/GPRS Modem

You can use GX15 as a GSM/GPRS modem to access the Internet from your PC. Connect your phone to your PC via the Infrared connection or a USB cable and install the necessary software. For details, see “Software Installation” on page 103.

Modem via the Infrared Connection

To use the modem function via the Infrared connection, see “Using the Infrared Function” on page 97 and turn the modem function on.

Modem via the USB Cable

To use the modem function using a USB cable, use the cable mentioned above and see the instructions accompanying the cable.

For details on software support, refer to the following site:

<http://www.sharp-mobile.com>

Note

- *Modem communication is not possible whilst communicating with the Handset Manager via the Infrared connection or USB cable.*

Handset Manager

You can transmit the following items between your phone and your PC, and can use Contacts List entries on your PC.

- My Items entries
- Contacts List entries
- Short messages

To use the Handset Manager function, see “PC Software” on page 97 and set your phone to Data Transfer mode.

For details on software support, refer to the following site:

<http://www.sharp-mobile.com>

Software Installation

1. Insert the supplied CD-ROM into your CD-ROM drive.

The GX15 CD-ROM screen is displayed.

If the GX15 CD-ROM screen is not displayed, double-click [Launcher.exe] in your CD-ROM.

2. Press the desired button.

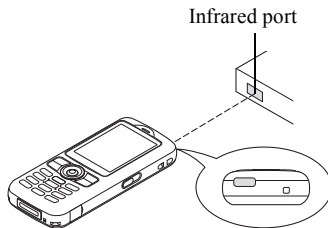
The installation starts.

3. Follow the on-screen instructions to complete installation.

Note

Infrared communication

- *Infrared ports need to be aligned with each other.*



- *Infrared ports need to be placed within 20 cm of each other and within a 30° angle.*
- *It is not recommended that you make or answer a call during data communication. The operation may be interrupted.*

GSM/GPRS modem

- *It is not recommended that you make or answer calls when you are using GX15 as a GSM/GPRS modem. The operation may be interrupted.*
- *When transmitting data via infrared communication, you need to set the infrared setting to “On”. (p. 97)*

Handset Manager

- *Some large files may not be able to be transmitted from the PC to the phone.*
- *When connecting your phone to a PC, you need to select the connection method for PC Software. (p. 97)*
- *The phone may not recognize the USB data cable if it is connected whilst an application (Camera, My Items, etc.) is running. Connect the USB data cable during stand-by.*
- *Applications (Camera, My Items, etc.) do not run when the phone is connected to the PC by IrDA or USB data cable.*

Troubleshooting

Problem	Solution
The phone does not turn on.	• Make sure the battery is properly inserted and charged.
PIN code or PIN2 code is rejected.	• Make sure you have entered the correct code (4 to 8 digits). • Your SIM card/protected functions will become locked after 3 unsuccessful attempts. • Contact your SIM provider if you do not have the correct PIN code.
The SIM card becomes locked.	• Enter PUK code (8 digits) provided by your service provider (if supported). • If the attempt is successful, enter the new PIN code and confirm your phone is operational again. Otherwise contact your dealer.
The display is difficult to read.	• Adjust the backlight brightness for the main display.

Problem	Solution
Phone functions do not work after the phone is turned on.	• Check the radio signal strength indicator as you may be outside the service area. • Check to see if any error message is displayed when you turn your phone on. If so, contact your dealer. • Make sure the SIM card is correctly inserted.
Calls cannot be made or received.	• If the message "SIM card error" is displayed at start-up, you cannot use your SIM card or the SIM card is damaged. Contact your dealer or network service provider. • Check your call barring, fixed dialling setting, remaining battery and call forwarding settings. • Check if your phone is currently performing data communication using Infrared (IrDA) or a data cable. • Check the remaining balance if you are using a pre-paid SIM card.

Problem	Solution
Call quality is poor.	Your current location may not provide good call quality (i.e., in a car or train). Move to a location where radio signal strength is greater.
Cannot access network service.	Check where your account has been registered and where the service is available.
Cannot send or receive Text Message.	Make sure you are correctly subscribed for the Short Message Service, that the network supports this service, and that the centre number is set up correctly. If not, contact your network service provider.
Cannot connect to Multimedia Message service provider.	MMS settings and configuration may be missing or incorrect or the network does not support it. Check your service provider's access point number. Contact your service provider to confirm the correct settings.

Problem	Solution
Limited memory available.	Delete any unnecessary data.
Call is terminated unexpectedly.	Magnetised objects such as health necklaces placed near the phone may terminate the call. Keep your phone away from such objects.
No entries are displayed in the Contacts List	Confirm that the Contacts Location setting (Handset or SIM) and View Groups setting are made correctly.
Fax transmission failure	- Before transmitting fax data, configure your fax software to use the software flow control. - Use of the optional data cable is recommended for transmitting fax data.

Safety Precautions and Conditions of Use

Your phone conforms to international regulations insofar as it is used under normal conditions and in accordance with the following instructions.

CONDITIONS OF USE

Electromagnetic waves

- Do not switch on your phone aboard an aircraft (as your phone may interfere with the aircraft's electronic systems). Current legislation forbids this use and legal action can be taken against the user.
- Do not switch on your phone in a hospital, except in designated areas.
- Use of your phone's function may affect the performance of medical electronic units (pacemakers, hearing aids, insulin pumps, etc.). When the phone function is on, do not bring it near medical equipment or into areas in which medical equipment is being used. If you have a hearing aid or a pacemaker, only use the phone on the opposite side of your body from where it is located. The phone should be kept at least 6 inches (15.24 cm) from a pacemaker ANYTIME the phone is switched on.

- Do not switch on your phone near gas or flammable substances.
- Observe the rules concerning the use of mobile phones at gasoline stations, chemical plants and at all sites where a risk of explosion exists.

Caring for your phone

- Do not allow children to use your phone without supervision.
- Do not open or attempt to repair your phone yourself. The product can only be repaired by authorised service personnel.
- Do not drop your phone or subject it to severe impacts. Bending the body and pushing the display or keys with extreme force could damage the phone.
- Do not use solvents to clean your phone. Use only a soft, dry cloth.
- Do not carry your phone in your back pocket as it could break when you sit down. The display is made of glass and is particularly fragile.
- Avoid touching the external connector on the underside of the phone, since the delicate components within can be damaged by static electricity.

Battery

- Use your phone only with batteries, chargers and accessories recommended by the manufacturer. The manufacturer disclaims any liability for damage caused by the use of other chargers, batteries or accessories.
- **Network configuration and phone usage will affect talk-time and stand-by time.**
Using the games or camera will hasten battery consumption.
- **When the battery charging alert is displayed on the screen, charge the battery as soon as possible.** If you continue using your phone ignoring the alert, the phone may cease to function, and all data and settings you have stored may be lost at any moment.
- Before removing the battery from the phone, make sure the phone is switched off.
- Replace and charge the new battery as soon as possible after removing the old one.
- Do not touch the battery terminals. Batteries can cause damage, injury or burns if a conductive material touches exposed terminals. When the battery is detached from the phone, use a cover made of non-conductive material for keeping and carrying the battery safely.

- Recommended temperature for using and storing batteries is approximately 20°C.
- The batteries' performance is limited in low temperatures, particularly below 0°C and the phone may not work temporarily regardless of the amount of remaining battery power.
- Exposing the phone to extreme temperatures will shorten battery life.
- The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time (talk-time and stand-by time) is noticeably shorter than normal, it is time to buy a new battery.

CAUTION

**RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE,
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS**

See "Battery Disposal" on page 11.

Aerial Care

- Do not touch the aerial unnecessarily, whilst using the mobile phone. If it is held, call quality may be hindered leading to shortened talk-time and stand-by time because the mobile phone may have to operate on a higher power level than is necessary.
- Use only the aerial supplied or one approved by Sharp for your mobile phone. Using unauthorised or modified aerials may damage the mobile phone. Moreover, since the mobile phone may violate the appropriate regulations, it may lose performance or exceed the limitation of SAR levels.
- To avoid impaired performance, do not damage the aerial of the mobile phone.
- Whilst talking directly to the microphone, please hold the mobile phone so that the aerial is upwards over your shoulder.
- To avoid interfering with blasting operations, please turn off the mobile phone in a blasting area or in a place where a “turn off two-way radio” sign is posted.

Camera Operation

- Learn picture quality, file formats, etc. beforehand. The taken pictures can be saved in JPEG format.

- Be careful not to move your hand whilst taking pictures.
If the phone moves whilst taking a picture, the picture can be blurred. When taking a picture, hold the phone firmly to prevent it from moving, or use the delay timer.
- Clean the lens cover before taking a picture.
Fingerprints, oils, etc. on the lens cover hinder clear focusing. Wipe them off with a soft cloth before taking a picture.

Others

- As with any electronic storage unit, data may be lost or corrupted under various circumstances.
- Before connecting the phone with a PC or a peripheral unit, read the operation manual for the other unit carefully.
- If the phone's battery has been removed for some time, or the phone has been reset, the unit's clock and calendar may be reinitialised. The date and time should be updated in this case.
- Use only the specified handsfree kit (option). Some phone's functions may not work when unauthorised handsfree kit is used.

ENVIRONMENT

- Keep your phone away from extreme heat. Do not leave it on the dashboard of a car or near a heater. Do not leave it in any place that is extremely damp or dusty.
- Since this product is not waterproof, do not use it or store it where fluids such as water can splash onto it. Raindrops, water spray, juice, coffee, steam, perspiration, etc. will also cause a malfunction.

PRECAUTIONS CONCERNING VEHICLE USE

- It is the user's responsibility to check the local laws governing the use of a mobile phone in vehicles. Pay full attention to driving. Pull off to the side of the road, park the car, and switch off the engine before making or answering a call.
- Use of your phone's function may interfere with the vehicle's electronic systems, such as the ABS anti-lock brakes or the air-bag. To ensure no such problem occurs, please check with your dealer or car manufacturer before connecting your phone.
- Only allow qualified service maintenance personnel to install the vehicle accessories.

The manufacturer disclaims any liability for damage which may result as a consequence of improper use or use contrary to the instructions contained herein.

SAR

Your Sharp mobile phone has been designed, manufactured and tested so as not to exceed the limits for exposure to electromagnetic fields recommended by the Council of the European Union. These limits are part of comprehensive guidelines developed by independent scientific organisations. The guidelines include a substantial safety margin designed to assure the safety of the phone user and others and to take into account variations in age and health, individual sensitivities and environmental conditions. European standards provide for the amount of radio frequency electromagnetic energy absorbed by the body when using a mobile phone to be measured by reference to the Specific Absorption Rate (SAR). The SAR limit for the general public is currently 2 watts per kilogram averaged over 10 grams of body tissue. Your Sharp mobile phone SAR value is x.xxx watts per kilogram. This has been tested to ensure that this limit is not exceeded even when the phone is operating at its highest certified power. In use however your Sharp mobile phone may operate at less than full power because it is designed to use only sufficient power to communicate with the network.

PRECAUTIONS FOR USE IN USA

FCC Declaration of Conformity

This mobile phone GX15 with PC/Data interface cable XN-1DC30 complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

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

Responsible Party:

SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07430

TEL: 1-800-BE-SHARP

Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE



FCC Notice

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Information To User

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

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

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

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Exposure to Radio Waves

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 radio frequency (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 1.6W/kg.* Tests for SAR are conducted using standard operating positions specified by the FCC 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 0.352 W/kg and when worn on the body, as described in this user guide, is 0.544 W/kg.

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 with FCC RF exposure requirements, use accessories that maintain a 1.5 cm separation distance between the user's body and the back of the phone. 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. 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 FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission 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 FCC ID APYHRO00035.

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

* 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.

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