

Welcome to Pantech GB210

Welcome to the wireless mobile communication network with this dual band GSM mobile phone,

GB210. We, Pantech, are pleased to introduce this brand new portable handset.

Our product always keeps you connected to the network.

Thank you for choosing Pantech GB210.

The user manual explains in detail how it works and what unique features are available.

Characteristic Specification of GB210

1. Display

Dual clamshell 65,000 CSTN LCD.

- 33.54 mm(W) x 44.9 mm(H) display for 1.8” Internal LCD
- 1.0” Black & White Colour Back lighted External LCD
- Supports up to 65,000 colours within 128 x 160 pixels
- 8 lines for text in basic mode with 16-pixel font
- Three soft keys with four-way scroll including select function ([OK] key)
- List and grid menu

2. Melody

Yamaha 16 poly

3. Camera

Integrated VGA CMOS Camera

- Resolution up to 640 x 480 (310,000 pixels)
- Self timer function (5sec or 10 sec)
- Phone display used as a viewfinder
- Photo album in Gallery
- Photo Gallery for storing and editing images

- 3 image quality options: Fine, Normal, Low

4. Dimension & Weight

- Weight:: 85 g
- Dimensions: 84 mmx 42 mm x 22.5 mm








5. Power Management (Performance)



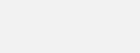





Battery Type	Capacity	Standby Time	Talk Time
Standard	680 mAh	200 Hours	3.5 Hours





6. Operating Frequency

- EGSM 900, GSM 1800, and GSM 1900 networks in Europe, Africa, Asia-Pacific, North America, and South America where these networks are supported
- Automatic switching between bands

Quick & Easy

Keys	Functions
	Perform the functions indicated by the text above them, on the bottom line of the display.
	<p>In Menu Mode, scroll through the menu options.</p> <p>In the idle mode, the Left key () enters the Favorite list screen, the Right key () enters the Text Message Menu screen, the Up key () enters the Profile setting menu for changing your sounds, and the Down key () enters the Contacts view names screen to search your contacts names.</p> <p>For further details, see “Using the shortcut key in the idle mode”.</p>
	<p>When pressed shortly in the idle mode, enters the WAP (Wireless Application Protocol) menu list.</p> <p>When pressed long in the idle mode, launches the WAP browser directly.</p> <p>In Menu Mode, selects menu function or stores information that you have entered, such as a name</p>

	in the phone or SIM memory, and also works as confirmation.
	Turns the camera capture mode on.
	<p>Deletes characters from the display, or returns to previous menu.</p> <p>When pressed shortly in the idle mode, enters the Calendar view.</p>
	<p>Makes or answers a call.</p> <p>In the idle mode, accesses the recent call list.</p> <p>When pressed long in the idle mode, redial Last call number.</p>
	<p>Ends a current call.</p> <p>When pressed long, switches the phone on or off.</p> <p>In Menu Mode, cancels your input and returns to Idle Mode.</p>
	When pressed long in the idle mode, quickly accesses your voice mail server.
	<p>Enter numbers, letters and some special characters.</p> <p>Go to dial screen when press in the idle mode.</p>
	<p>Used for various purposes in different functions.</p> <p>When pressed long in the idle mode, the key enters or exits the Etiquette Mode.</p> <p>When pressed long in Text Input Mode, display</p>

	<p>Symbols input screen.</p> <p>When pressed in Predictive text input mode, works as Word search mode.</p>
	<p>Enter an international prefix for dialing.</p> <p>In Text Input Mode, enter the space character.</p>
	<p>When pressed long in the idle mode, Phone is locked or unlocked.</p> <p>When pressed long while entering a phone number, the key enters a pause.</p> <p>When pressed long at the text edit screen, changes various text input modes.</p>
	<p>During a call, adjust the earpiece volume.</p> <p>In the idle mode with the phone open, adjust the key tone volume.</p>
	<p>During a call, adjust the earpiece volume.</p> <p>In the idle mode with the phone open, adjust the key tone volume.</p>

Safety Precautions

Prohibition of Cellular Use during Driving

For the prohibition of cellular use during driving, please check the relative laws and abide by the following regulations.

- Use of your cellular while you are driving may dissipate your concentration on driving and consequently incur accidents. Please turn it off as far as possible.
- Should you use your cellular in emergency, please make use of the hands free built in your car or pull over your car in a safety place for a while for your utmost safety.
- The electronic wave energy emitting from your cellular may affect the electronic device built in your car. Please pay attention to such a characteristic.

Cellular Use Restriction Area

Please be sure to turn your cellular off in the cellular use restriction area.

Prohibition of Cellular Use in Explosive or Dangerous Area

Please turn your cellular off in the area with explosive or dangerous materials (such as gas, gas station, or chemical goods) and abide by any instruction or signal. Never try to detach your cellular battery from the main body in such areas, either.

Boarding Airplane

- Please turn your cellular off while you are boarding an airplane. The electronic wave from your cellular may affect the electronic navigation device in your airplane.

Using Medical Equipment

- Please turn your cellular off while you are entering or exiting from a hospital.
- Please abide by the regulations or rules of the hospital.
- Please turn off your cellular when you use medical equipment for private purposes as far as possible. You shall consult with the manufacturer or an expert before you use it.

Installing Vehicle Hands Free

- Please keep a vehicle hands free off the driving radius, air bag expansion range, or whatever area may cause injury.

Effect of Cellular and Electronic Device

Few electronic devices may be affected by the electronic wave emitting from the cellular in service. Please be careful.

Menu Tree

[S] SIM Dependent, [N] Network Dependent

Messages	Text Messages	Write New	
		Inbox	
		Outbox	
		Saved Box	
		Text Template	
		Settings	Message Centre
			Message Lifetime
			Message Format
		Memory Info	
	Multimedia		
	Msgs	Write New	
		Inbox	
		Outbox	
		Saved Box	
		MMS Template	
		Settings	Message Lifetime
			Auto Download
			Delivery Reports
			Delivery Rep. Allow
			Read Reports
			Read Rep. Allow

			Spam Filter
		MMS Profiles	
	Broadcast	Receive	
		Read Info	
		Topic List	Current List
			Add My Topic
		Language	
	Voice Mail	Call	
		Voicemail	
		Number	
Contacts	Search	Name Search	
		Group Search	
		Photo Search	
		Service	
		Number[S]	
	Add Contact		
	Speed Dial		
	Groups		
	Memory in Use	Phone or SIM	
		Phone	
		SIM Card	
	Delete All	Phone	
		SIM Card	
	Memory Info		

Call Logs	Missed Calls
	Received Calls
	Dialled Calls
Delete	Call Missed Calls
Logs	
	Received Calls
	Dialled Calls
	All Calls
Call Timer	Last Call Time
	Received Call
	Time
	Dialled Call Time
	All Call Time
	Reset Call Times
Call Cost[N]	Last Call Cost
	All Call Cost
	Clear Logs
	Max Cost
	Cost Unit
GPRS Info	Current Info
	Last Info
	All Info
	Clear Logs

Fun & Tools	Camera	Take a Photo
		Take a Video
		Photo Gallery
		Video Gallery
		Sticker Gallery
		Settings
		Image Size
		Image Quality
		Shutter Sound
		Flash
		Self Timer
		Auto Save
		Time Stamp
		Multi-Shot
	Media Gallery	Photo Gallery
		Video Gallery
		Image Gallery
		Sound Gallery
		Memory Info
	Games	
	Java	Midlet List
		Memory Info
	Auto Answer	Auto Answer
		Recorded
		Message
		Response

		Message	
		Response Time	
		User Message	
	Voice Memo		
Profiles	Normal	Ring Tone	
		Message Alert	
		Key Tone	
		Flip Open Tone	
		Sound Effect	
		Profile Name	
		Reset	
	Silent		
	Meeting		
	Outdoor		
	Car		
Settings	Display Setting	Wallpaper	
		Wallpaper Type	
		Style Theme	
		Greeting	Startup
			Idle
		Brightness	
		Contrast	
		Backlight	

		Software	
		Version	
Call Settings	Call Divert [N]	All Calls	
		When Busy	
		On No Answer	
		When Not Found	
		Cancel All	
		Answer Type	
		Auto Redial	
	Call Waiting [N]	Activate	
		Deactivate	
		Status	
	Send Caller ID	Show Caller No.	
		Hide Your No.	
	Own Number		
	Language		
	Favorite		
	Time & Date		
	Network		
	Selection		
	Security		
Settings	SIM Lock [S]		
	Change PIN [S]		
	Phone Lock		
	Change Lock		

	Application Lock
	Call Barring [N] International Calls
	Only Local/Home
	Incoming Calls
	Incoming Calls When Aboard
	Int. Calls Except to Home Country
	Clear All
	Change Password
	CUG [N]
	FDN [S]
	Change PIN2[S]
	System Reset
Organiser	Alarm
	Calendar
	Memo
	World Time
	Calculator
	Converter
	Stop Watch
	Timer
Wap	Home

	Resume
	Bookmarks
	Push Messages Inbox
	Receive
	Go to URL
	Profiles
	Cache Cache Mode
	Clear Cache
	Version
	SIM
	Toolkit[S]
	Marks in This Manual
	NET: Indicates that the menu depends on the network of user
	SIM: Indicates that the menu depends on the SIM of user
	MEM: Indicates that the menu depends on the phone memory of user

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Memo

I . Getting Started

1 Package Contents

2 Views of Pantech GB210

3 Internal & External Displays

4 SIM Card

5 Using the battery

1. Package Contents



Phone



Travel Charger



Battery



Manual



Ear Microphone



Hand Strap

2. Views of Pantech GB210



Camera

Left Soft key

4-way Menu Navigation
Special Menu Short key

Dial key
Call Accept

Voicemail

Alphanumeric Key

Etiquette Mode

Microphone

Earpiece

Internal LCD

Right Soft key

Wap Access key
Select/Menu Confirm key

Power On/Off
Menu exit key

Cancel/Back
Text Clear/Edit exit key

Key Lock/Unlock



Antenna

Ear jack

3-Colour LED

External LCD

Camera

3. Internal & External Displays

A phone has 2 LCDs (Internal, External) and icons on the top of the display to show the phone condition.

3.1 Internal LCD Display



Icons Area

Text and Graphic Area

Display in Idle screen with information Area Information through Cell broadcast service













Network Name

Time and Date, or Idle Greeting message.

Soft key Indications

Icon(s)	Description
	Shows the received signal strength. The more the number of bars, the stronger the signal.
	Appears when a call is in progress
	Appears when you are out of a service area. When it displays, you cannot make or receive calls.
	Appears when you have new or unchecked voice

	messages.
	Appears when you have new or unread text messages. When the memory of text messages is not enough, this icon may appears like
	Appears when you have new or unchecked multimedia messages. When the memory of multimedia messages is not enough, this icon may appears like
	Appears when you are not ranged within your home network.
	Appears when GPRS is within range. When GPRS session is in progress, this icon may appears like
	Appears when WAP is in use. When WAP Security session is worked, this icon may appears
	Appears when you have new or unchecked WAP push messages. When the memory of WAP push messages is not enough, this icon may appears like
	Appears when the Call Diverting feature is activated
	Appears when you set the alarm to ring at a specified time
	Appears when you set the schedule with an alarm to notice at a specified time
	Appears when you set the alert type for incoming call to ring only.
	Appears when you set the alert type for incoming call to

	ring ascent .
	Appears when you set the alert type for incoming call to ring and vibrate.
	Appears when you set the alert type for incoming call to vibrate then ring.
	Appears when you set the alert type for incoming call to quite. In this case, it is indicated using 7-colour LED for incoming call alerting.
	Appears when you set the alert type for incoming call to vibrate only.
	Appears when you set the alert type for all tones to quite and for all rings to vibrate only.
	Appears when you have new or unchecked cell broadcast messages. When the memory of cell broadcast messages is not enough, this icon may appears like 
	Appears when the headset is connected.
	Appears when the new voice mail is received
	Appears when the auto-answering feature is activated.
	Shows the levels of your battery. The more bars you see, the more power you have left. If your battery is flat, this icon may be showed like 



Display Off Mode.

If you don't press any key in a minute after dimming of the internal and external display, the internal display goes into the Off Mode to save the power.

Press any key to awake the display from the Off Mode.

Selecting functions and options.

Your phone offers a set of functions that allow you to customize your phone. These functions are arranged in menus and sub-

menus, accessed via the three soft keys marked [], [] and the [OK] key.

Each menu and sub-menu allows you to view and alter the settings of a particular function.

The roles of the soft keys vary according to the current context; the labels or icons on the bottom line of the display and just above the soft keys indicate their current roles.

To view various functions/options available or select the one is required:


1. Press the appropriate soft key.
2. To select function displayed or option highlighted, press the

Select soft key [] or [OK] soft key.

3. To highlight the next option on a list, press the **[Up]** key or Down key.

4. To move back to the previous function or option on a list, press the **[C]** key





5. To return to the idle mode, press the [] key.

In some functions, you may be asked for a password or PIN. Enter the required code and press the **[OK]** soft key.

3.2 External LCD Display

The following sections describe the External LCD Screen display



 Side Up	During a call, adjust the earpiece volume. When pressed at an incoming call, silence the ring tone. When pressed long at an incoming call, reject the Call.
 Side Down	During a call, adjust the earpiece volume. When pressed at an incoming call, silence the ring tone. When pressed long at an incoming call, reject the Call.

4. SIM Card

4.1 SIM Card

When you register as a subscriber with a network operator, you get a SIM(Subscriber Identity Module) card that contains the user's registration information. (PIN, the existence of additional service, etc).

Like a credit card, it should be kept securely and handled carefully. Do not bend, scratch or expose to moisture.

Avoid static electricity.

To avoid corrupting the memory of your SIM card, always switch off your phone before removing or inserting your SIM card.

4.2 Installing/Removing the SIM card

1. Separate the battery from the unit.



2. After checking whether the SIM slot is empty, put the SIM card

into the slot.



3. If you would like to remove the SIM card, please push the SIM card in the direction of the arrow shown in the picture as below.



5. Using the battery

5.1 Installing the battery

As shown in the picture below, put the metal locators of the battery into the holes located in the bottom of the unit.

Insert the metal locators of the battery into the hole located in the bottom of the unit.

Press the Upper part of the battery until the sound of a 'click' is heard.



5.2 Removing the battery

Put up the department button and remove the battery.



5.3 Charging the battery

The power of the unit is supplied by the Li-ion battery charged. Ensure that you use only authorized batteries and chargers. For more details, please inquire at the nearest dealer.

The unit can be used while being recharged.

When the battery is installed in the unit, open the cover and connect an adaptor to the outlet located in the lower part of the unit. An adaptor is provided together with the unit



When finishing recharging, separate the adaptor connection from the outlet located in the lower part of the unit.



Tip

Your cell phone is powered by a Lithium Ion (Li-ion) battery. The following Li-ion battery types can be used for your phone. (Contact your local dealer for more information.)

Standard-type battery.

Slim-type battery.

5.4 Precautions while using the battery

Do not use a damaged battery or charger.

Use the battery only for intended purposes.

If you use your cell phone near its base station, battery life will be extended. You will then be able to enjoy a longer operating time.

Battery charging time depends on the remaining battery capacity and the type of battery and charger being used.

Battery life wears out with time.

Use only authorized batteries and chargers. Since overcharging may shorten battery life, remove the battery from its charger once it is fully charged. Unplug the charger once charging is complete.

Leaving the battery in hot or cold places, especially inside a car in summer or winter conditions, may reduce the capacity and life of the battery. Always keep the battery under normal temperatures. Do not ground the battery. Grounding may occur when the battery is in contact with a conductive object. A grounded cell phone may also damage the battery. Dispose and recycle used batteries in accordance with local regulations. Do not dispose of the batteries in fire. Do not use an unauthorized charger. In order to prevent injury or burns, ensure that a metal object does not come into contact with the + and - terminals of the battery.

II. Basic Functions

1 Switching the Phone On or Off

2. Making a Call

3. Answering a call

4. Options in calling

5. Using the earpiece

6 Selecting the Menu


7. Entering the texts

1. Switching the Phone On or Off

1.1 Switching the Phone On

① Open the folder.



② Press the [] key until the phone switches on.

③ If the phone asks for a PIN, enter the PIN and press the [OK] Soft key.(For further details, see page ??)


The phone searches for your network and the current date and time appear on the internal and external displays. After finding it, you can make or receive a call.

If the malfunction is occurred in use of the phone, or the phone is not power on, remove the battery and install it after 5 or 10 seconds.

Note: To change the language, use the Language menu option (Menu 6.3). (For further details, see page ??)

1.2 Switching the phone off




To switch the phone off, press the [] key until the power-off animation displays.

2. Making a Call

2.1 Making a Call

Enter the area code and the phone number to connect a call in the

idle mode, and press the [] key.


Note: If you have set the **Auto redial** option (**Menu 6.2.3**) to **On**, the number is redialed automatically up to ten times if the person you called does not answer or the line is busy.

(For further details, see page ??)

To clear the last digit displayed, press the **[C]** key.

To clear the all digits displayed, press long the **[C]** key


2.2 Ending a Call

When you want to finish your call, briefly press the [] key or close the folder.

Upon the end of Call, the Call summary (Receiver Name or Number, Service Time) will be displayed.


2.3 Using Call Logs

The phone stores up to 30 calls dialed, received or missed chronologically. The last call is saved in the first position. If the same number occurs more than once, only the latest occurrence is saved.

① Press the [] key short to see Call Log List aligning Dialed, received, or missed numbers chronologically.




② Press the **[Up/Down]** key to select a number.

③ Press the [] key for dialing.
(See Call Log for more details.)


* **Tip:** Press long the [] key to redial the latest number in Call log.

2.4 Using Contacts

You can store the names and phone numbers called regularly in the SIM card and phone's memory, which are jointly called the Contacts. You then do not need to remember all your numbers; simply select the required name to recall the associated number.
(For further details about the Contacts feature, see page ??.)

- ① Press the [] key and the [] key in the idle screen to approach at 'Contacts Menu' and 'View Names' List respectively
- ② Select a number from 'View Names'.
- ③ Press the [] key for dialing
(See Contacts for further details.)

2.5 Making an International Call

- ① Press long the [0] key for the international prefix until '+' character appears on display or enter the outgoing national code.
- ② Enter the country code, area code and phone number you want to make a call.
- ③ Press the [] key.

2.6 Speed-dialing from Contacts

Press long the number of the 'Speed Dial' to retrieve and call in which you saved the number to call.

For example, press long the [5] key to dial a number which has been saved "5" in Speed Dial List.


For numbers more than 2 digits, press short the first one and then

press long the second one.

(See Speed Dial for more details.)

2.7 Making the Emergency Call

Emergency call is available even without available SIM.

Enter '112' number and then press the [] key,
or press the soft key [SOS] if no SIM Card.


3. Answering a Call

3.1 Answering a Call


When somebody calls you, the phone rings (or vibrates) and screen will display the name or the number of the caller (If network supports and you subscribe to it).

If the caller can be identified, the caller's phone number, or name if stored in your Contacts, displays.

① To answer a call, open the folder.

② If it is already open, press the [] key.

If Answer type is set as 'Any Key', you could answer a call by

pressing any key except [] key.

3.2 Viewing Missed Calls

If for any reason, an incoming call cannot be answered, a missed call message will appear on the screen to remind you of the call you missed (Network and subscription dependent feature, not available in all areas)

To reply to the missed call;

- ① Keep the folder open.
- ② Press the 'View' soft key to display a list of missed calls.
- ③ If necessary, scroll to the number you want by pressing the [Up/Down] key.

④ Press the [] key to recall the missed call.

Press the [C] key or [] key to close Missed Call Notification.

3.3 Rejecting a Call

Press the [] key or the **Reject** soft key [] when the

folder is opened. If pressed the **Reject** soft key [], it will be responded as user busy.

When the folder is closed, press long the [Side Up/Down] key during ringing for incoming call

3.4 Adjusting the Volume

During a call, if you wish to adjust the earpiece volume, use the volume keys on the left side of the phone.

Press the [Side Up] key to increase the volume level and the

[Side Down] key to decrease it.

The current volume level will be display in the screen

In the idle mode with the folder open, you can adjust the key tone volume using the **[Side Up/Down]** key.

4. Options in calling



During a call, press the [] key to enter the call option.

4.1 Switching the Microphone Off (Mute)

You can temporarily switch your phone's microphone off so that the other person cannot hear you.

For example, you may wish to say something to another person in the room but do not want the calling person to hear you.

Briefly, press the **Mute** soft key,

Or, select Option followed by 'Mute' to activate the Mute function.

To switch the microphone back on:

Briefly, press the **Sound** soft key.

Or, press the **Options** soft key and then press the **Select** soft key when **Sound** highlights

4.2 Putting a Call on Hold

You can place the current call on hold whenever you want. You can make another call while you have a call in progress if this service is supported by the network. Of these two calls, one is active and

the other is on hold and you can switch between the calls.

To place a call on hold, simply select **Option** followed by 'Hold', or

press the [] key.

You can reactivate the call whenever you want by selecting **Option** followed by **Retrieve**'.

Once a call held, the name and icon of the caller will be faded in gray.

To make a call while you have a call in progress:

- ① Enter the phone number that you want to dial or look it up in the Contacts.
- ② Press the key to dial the second call.
The first call is automatically put on hold.

To switch between the two calls, simply press the **Swap** soft key.

The current call is placed on hold and the call on hold is reactivated so that you can continue conversing with the other person.


When you want to finish, end each call normally by pressing the


[] key.

4.3 Answering a Second call while you are on a phone call

You can answer an incoming call while you have a call in progress, if this service is supported by the network and you have activated the **Call waiting** option. You will be notified of an incoming call by a call waiting tone.

To answer a call while you have another call in progress:

- ① Press the [] key to answer the incoming call.
- ② The first call is automatically put on hold.
- ③ To switch between the two calls, press the **Swap** soft key.

To end the current call, press the [] key.

The call on hold is automatically reconnected to you.

4.4 Searching for a Number in Contacts

You can search for a number in your Contacts during a call.

- ① Press the **Options** soft key.
- ② If necessary, press the **[Up/Down]** key to highlight the 'Contacts' option. Press the **Select** soft key.
- ③ Select the preferred search kinds like Name, Group, and Photo.
- ④ Press the **[OK]** soft key.

- ⑤ The Contacts entries are listed.
- ⑥ Enter the first a few letters of the name that you want to find in case of Name Search.
- ⑦ The Contacts entries are listed starting with the first entry matching your input.

Note: You can also scroll through Contacts from the beginning, by pressing the **[Up/Down]** key.

- ⑧ To view the highlighted entry, press the **[OK]** soft key.

For further details about the Contacts feature, see page ??.

4.5 Using the DTMF tones

You can turn the DTMF key tones off or on during a call.

When the **DTMF Off** option is selected, your phone does not transmit the key tones. It allows you to press keys without hearing annoying key tones during a call.

To communicate with answering machines or computerized telephone systems, the **DTMF On** option must be selected.

4.6 Transferring a Call

You can transfer the current call to the call on hold if this service is supported by the network, so that the callers can talk to each

other.

You are disconnected from both of them.

- ① During a call, answer or make a call in the normal way, and press the **Option** soft key.
- ② Press the **[Up/Down]** key to select the **Transfer** option and press the **Select** soft key.

The two people are connected to each other.

4.7 Using the Message Service

You can read or write a new message during a call.

- ① Press the **Options** soft key.
- ② Press the **[Up/Down]** key to highlight the **Message** option. Press the **Select** soft key.
- ③ To read a received message, select the **Inbox submenu**, and then scroll to the message that you want to read.
- ④ To write a new message, select the **Write New submenu**.
- ⑤ Press the **[OK]** soft key.

(For further details about the SMS menu, see page ??.)

4.8 Making a Multi-party Call

A multi-party call feature is a network service that allows up to six people to take part simultaneously in a multi-party or conference call.

For more information, contact your service provider.

To make a multi-party call:

- ① Call the first participant in the normal way.
- ② Call the second participant in the normal way.
The first call is automatically put on hold.
- ③ To join the first participant to the multi-party call, press the **Option** soft key and select the **Join** option.
- ④ Press the **Select** soft key or [OK] key.
- ⑤ To add a new person to the multi-party call, call the person in the normal way.
Then press the **Option** soft key and select the **Join** option.
- ⑥ Press the **Select** soft key or [OK] key.

You can add incoming callers by answering the call and selecting the **Join** option. Repeat as needed.

Upon composition of multi-party call, you may view the people and their status in Multiparty with the [Left/Right] key.

An icon indicates either Far Multiparty or Far Held.

Having a Second Call During a Multi-party Call

To answer or make a call when you have the multiparty call:

- ① To place the multi-party call on hold, press the **Option** soft key and select the **Hold** option.
- ② Answer or make a call in the normal way.

- ③ You can reactivate the multi-party call on hold by pressing the **Swap** soft key.



- ④ To end the multi-party call, press the [] key

Having a Private Conversation with One Participant

- ① Press the **Option** soft key and select the **Private** option.
Press the **Select** soft key or [OK] key.
- ② Press the [Up/Down] key to highlight a participant and press the [OK] key.

Now you can talk privately with that person.

The other participants can continue to converse with each other

- ③ To return to the multi-party call, press the **Option** soft key and select the **Join** option.
- ④ Press the **Select** soft key.

All of the multi-party call participants can now hear each other.

Removing One Participant

- ① Press the **Option** soft key and select the **Exclude** option.
- ② Press the [Up/Down] key to highlight a participant and press the **Select** soft key or [OK] key.

The call ends with that participant, but you can continue to talk with the other participants.

- ③ End the multi-party call by closing the folder or pressing the



[] key.

5. Using the Earpiece

With the ear-microphone, you can make or answer a call without holding the phone.

When you connect the ear-microphone to the jack at the top of the phone, the button on the ear-microphone works as listed below;

To show the recent calls, press the button in the idle mode


To redial the last call, press the button twice in the idle mode


To answer a call, press the button when you receive the call

To end a call, press the button when you have finished the call

6. Selecting the Menu function

6.1 Entering the menu function


Press the [] key to approach at the main menu in the idle mode.

Press [] key to approach at the Contacts Menu.
Press the 4-way [**Navigation**] keys in the main menu to move the menu.
Press the [**Left/Right**] key in the Main Menu List screen to move among main menus.
Press the [**Up/Down**] key to search a sub menu.
Press the [**OK**] key to access to the sub menu

See the bottom of the Sub Menu List to check the current set values in the sub menu.
Then, press the [**Left/Right**] key followed by [**OK**] key to change the preset value of the menu.
If you miss pressing [**OK**] key, the new value will be volatilized.

Note: Press the [**C**] key to return to the previous menu.
Input the number of a menu to gain a quick access to the sub menu.

6.2 Using the shortcut key in the idle mode

Press long the [] key to change the menu style theme between grid and list.

Press the [] key to access to the contacts menu.

Press long the [] key to access to the 'View Names' display.


Press the [**Right**] key to enter to the text messages menu.
Press long the [**Right**] key to enter to 'Write New' display.

Press the [**Up**] key to access to the profiles list menu.
Press long the [**Up**] key to enter to current ring tone display.

Press the [**OK**] key to access to the WAP menu.
Press long the [**OK**] key to connect WAP browser directly.

Press the [**Left**] key to access to the favorites menu.
Press long the [**Left**] key to access to photo gallery menu.

Press the [**C**] key to access to the calendar monthly view.
Press long the [**camera**] key to enter to the camera capture mode.
Press the side [**camera**] key to enter to the camera menu.

Press the [] key to view recent call logs.

7. Entering the Text

7.1 Input mode

At many times while you are using your phone, you need to enter text, such as when storing a name in the Contacts, writing a new message, creating your greeting or scheduling events on your calendar.

You are provided with the following text input modes:

T9 mode

This mode allows you to enter words with only one keystroke per letter. Each key on the keypad has more than one letter – when you press the **5** key once, J, K or L may be displayed.

The T9 mode automatically compares your keystrokes with an internal linguistic dictionary to determine the correct word, thus requiring far fewer keystrokes than the traditional Multi-tap mode.

Multi-tap mode

This mode allows you to enter letters by pressing the key labeled with the required letter once, twice, three or four times until the letter displays.

Numeric mode

This mode allows you to enter numbers.

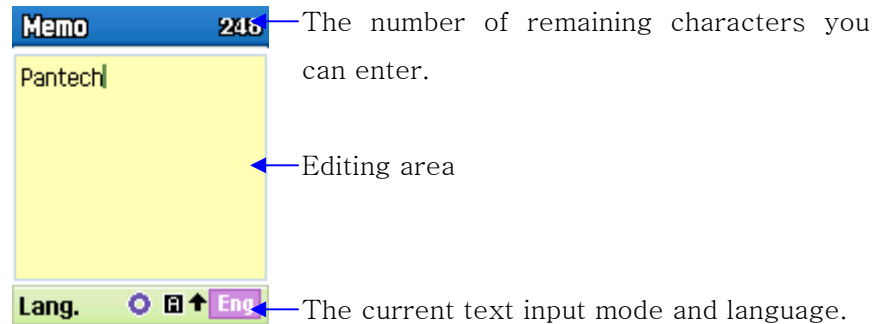
Symbol mode

This mode allows you to enter special characters like Greek letter, currency unit, or period mark.

7.2 Changing the Text Input Mode

When you are in a field that allows characters to be entered, you will see the text input mode indicator at the bottom of the display.

Example: Entering a memo.




The number of remaining characters you can enter.

Editing area

The current text input mode and language.

To change to another text input mode:

① Press the right soft key indicating the current text input mode.

② Toggle to the mode you want to use by pressing the [] right soft key.

The **Language select** option allows you to change the text input language.

Inserting a Space

To insert a space between words, press the [0] key.

Or, at the end of line, press the [Right] key to add new space character.

Scrolling

To move the cursor to the left or right within the text, press the Left or Right key.

Clearing Letters and Words




To clear the letter to the left of the cursor, press the [C] key.

You can clear all of the letters on the display by pressing and holding the [C] key.

Returning to the Previous Screen

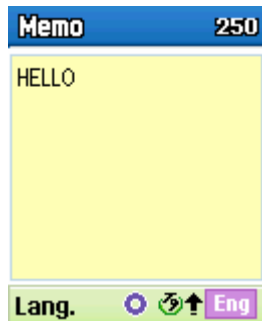
When the text input field is empty, press the [C] key to return to the previous screen.

TIP: Quick Changing the Text Input Mode Commonly


	Long	Views Symbol Screen
press		
	Short	Enters Space Character
press		
	Long	Changes Text Input mode
press		
[C] Short press		Deletes characters one by one. Returns to Previous screen after deletion of all characters.

[C] Long press	Deletes all characters and move Cursor in front of screen.
----------------	--

7.3 Using the T9 Mode



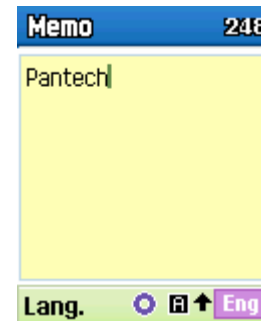
As for the T9 alphabet Editor, the more texts, the more complete word.

- ① Press the keys numbered [2] to [9] to input texts. For example, press [4][3][5][5][6] in sequence to input 'hello'.
The word you are typing appears on the display. It may change with each key that you press.
- ② Enter the whole word before editing or deleting any keystrokes.
- ③ Upon search of a word, input the next text.
- ④ If you fail to search a word, press the [] key to search which text can be typed in. If multiple texts are searched, the

text in the most frequent use will be listed first.

- ⑤ Continue entering the next word.

7.4 Using the Multi-tap Mode



When typing in the Multi-tap mode, press the key labelled with the required letter:

- Once for the first letter
- Twice for the second letter
- And so on

Example: To display the letter "C", quickly press the **2** key three times. To display the letter "K", press the **[5]** key twice. This method is called Multi-tap typing.

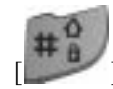
Note: The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just press the Right key or wait a few seconds for

the cursor to move to the right automatically, and then enter the next letter.

Refer to the table for more information about the characters available. The characters vary, depending on the text input language.



Changing the Case

To change the case of the next letter(s) that you type, press the



[] key.

There are three cases:

- Lower Case (no indicator)
- Initial Capital ()
- Capital Lock ()

[English]

KEY	Characters in the Order Displayed
1	. , - ? ! ' @: 1
2	a b c 2
3	d e f 3
4	g h i 4
5	j k l 5
6	m n o 6

7	p q r s 7
8	t u v 8
9	w x y z 9
0	Space 0

[Spanish]

KEY	Characters in the Order Displayed
1	. , - ¿ ? ¡ ! @ 1
2	a b c á ã ç 2
3	d e f é 3
4	g h i í 4
5	j k l 5
6	m n o ó ñ 6
7	p q r s 7
8	t u v ú ü 8
9	w x y z 9
0	Space 0

[Portuguese]

KEY	Characters in the Order Displayed
1	. , - ? ! ' @: 1
2	a b c ç ã á à â 2
3	d e f é ê 3
4	g h i í 4

5	j k l 5
6	m n o õ ó ô ñ 6
7	p q r s 7
8	t u v ú ü 8
9	w x y z 9
0	Space 0

[Russian]

KEY	Characters in the Order Displayed
1	. , - ? ! ' @: 1
2	а б в г г 2
3	д е ё ж з ё 3
4	и й к л і і 4
5	м н о 5
6	п р с 6
7	т у ф х 7
8	ц ч ш щ ъ 8
9	ы ь э ю я 9
0	Space 0

[Turkish]

KEY	Characters in the Order Displayed
1	. , - ? ! ' @: 1
2	a b c ç â ä á 2

3	d e f é 3
4	g h i ı ğ î 4
5	j k l 5
6	m n o ö ó ô 6
7	p q r s ş ß 7
8	t u v ü û ú 8
9	w x y z 9
0	Space 0

[German]

KEY	Characters in the Order Displayed
1	. , - ? ! ' @: 1
2	a b c ä á à 2
3	d e f é è 3
4	g h i 4
5	j k l 5
6	m n o ö 6
7	p q r s ß 7
8	t u v ü 8
9	w x y z 9
0	Space 0

[French]

KEY	Characters in the Order Displayed
-----	-----------------------------------

1	. , - ? ! ' @:	1
2	a b c ç à â á ä	2
3	d e f é è ê ë	3
4	g h i î ï í	4
5	j k l	5
6	m n o ô ó ö ñ	6
7	p q r s ß	7
8	t u v ù û ú ü	8
9	w x y z	9
0	Space	0

[Italian]

KEY	Characters in the Order Displayed	
1	. , - ? ! ' @:	1
2	a b c à	2
3	d e f è é	3
4	g h i ì	4
5	j k l	5
6	m n o ò	6
7	p q r s	7
8	t u v ù	8
9	w x y z	9
0	Space	0

[Arabic]

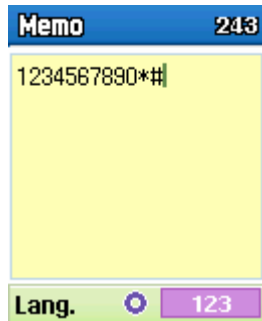
KEY	Characters in the Order Displayed	
1	. □ □ ! □ " @:	1
2	□ □ □ 2	2
3	□ □ □ □ □ □ □	3
4	□ □ □ □ 4	4
5	□ □ □ □ 5	5
6	□ □ □ □ 6	6
7	□ □ □ □ □ □ 7	7
8	□ □ □ □ 8	8
9	□ □ □ □ 9	9
0	Space	0

[Thai]

Key	Characters in the Order Displayed	
1	. , - () % !	1
2	□ □ □ □ □ □ □	2
3	□ □ □ □ □ □	3
4	□ □ □ □ □ □ □ □	4
5	□ □ □ □ 5	5
6	□ □ □ □ □ □ 6	6
7	□ □ □ □ □ □ □ 7	7
8	□ □ □ □ 8	8

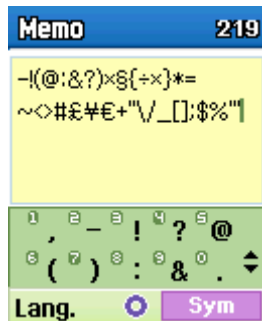
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
0	0				
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
#	<input type="checkbox"/>				

7.5 Using the Numeric Mode



The Number mode enables you to enter numbers in your text. Press the keys corresponding to the digits you want to enter.



7.6 Using the Symbol Mode





The Symbolic mode enables you to enter symbols in your text.


To display more symbols, press the [Up/Down] key.

To enter a symbol, press the number for a symbol, and the text will appear in the input screen.

Press long the [] key or [] soft key to escape from the Symbol mode.

If you entered a symbol with the hot key ([] long key), press the key again to return to the previous mode.

And press the [] key to proceed to a mode next to the Symbol mode.

If you entered a symbol with the [] key, press the key again to proceed to a mode next to the Symbol mode.


7.7 Using the Bopomofo Input Mode


Input the alphabet for a pronunciation.

Texts for the pronunciation will be displayed.

Press the [Up/Down] key to see the hidden symbols.

Press the number key for a text long and the text will appear in the input window.

Press short the [] key to add a special symbol to a Chinese character. (Tone mode)

Press [] short in the Tone mode to reenter the previous BPMF.

* BPMF Key Map

1 ㄅ ㄆ ㄇ	2 ㄏ ㄏ ㄏ	3 ㄐ ㄑ ㄒ
4 ㄓ ㄓ ㄓ	5 ㄔ ㄔ ㄔ	6 ㄕ ㄕ ㄕ
7 ㄖ ㄖ ㄖ	8 ㄗ ㄘ ㄙ	9 ㄚ ㄛ ㄜ
* ㄟ ㄟ	0 ㄠ ㄡ	#


7.8 Using the Pinyin Input Mode


Input the alphabet for a pronunciation.

Texts for the pronunciation will be displayed.

Press the **[Up/Down]** key to see the hidden symbols.

Press the number key for a character long and the text will appear

in the input window. Press short the [] key to add a special symbol to a Chinese character. (Tone mode)


Press short the [] key in the Tone mode to reenter the previous Pinyin.


7.9 Using the Stroke Input Mode

Select a stroke printed on [1], [2], [3], [4], or [5] to display the stroke.

Press the **[Up/Down]** key to see the hidden symbols.

Press the number key for a text long and the text will appear in

the input window. Press short the  key to add a special symbol to a Chinese character. (Component mode)

Press short the  key in the Component mode to reenter the previous stroke.

III. Applications

1.Messages

2.Contacts

2 Call Logs


4 Fun & Tools

5 Profiles

6 Settings

7. Organiser

1. Messages

Press the [] key in the idle mode or select Menu→1.Messages.

This menu allows you to create, send, read and save messages with the Short Message Service (SMS: text message), Enhanced Message Service (EMS: message including simple image, animation or melody) and Multimedia Message Service (MMS: message supporting the presentation of various media types, such as full colour images and polyphonic ring tones).

Voice mails are also available.

Note: This feature is only available if your service provider's network supports it. Contact your service provider for more information.

1.1 Text Messages

Select 'Menu→1.Messages→1.Text Messages'.


Short message service (SMS) allows you to send and receive short text messages to and from other GSM mobile phones.

In addition, your phone supports the Enhanced Messaging Service

(EMS), which enables you to make short messages consisting of simple pictures, melodies, animations and styled text all of which adds a new dimension to simple text messages.

To send text messages by phone, you must obtain the number of the SMS centre from your service provider.

Receiving a new message

When you receive a new message, the New message icon () and a notification showing the number of the message appear on the display.


You also hear an alert, depending on the message sound setting; for further details, see '6.Profiles -> 2.Message Alert'.

To read the new message(s) immediately, press the 'View' soft key. The list of the messages appears.

Note: To clear the new message notification on the display, press the [End] key. When you also have missed calls, voice mails, short messages, and Cell broadcast messages, the left soft key indication changes like 'View'.

Managing memory

Inbox and Outbox share a given amount of memory in SIM card.

When the message memory is full, the full message icon () appears. In this case, you cannot receive any new messages. You must delete one or more old messages to get free memory for new

messages using the **Delete** option within the **Inbox** or **Outbox** or the **Delete all** option.

- **Write New:** Writes a new SMS or EMS.
- **Inbox:** Displays messages received. Save in the SIM memory. '10' of [10/20] represents the number of messages unread and '20' represents the number of messages saved.
- **Outbox:** Displays messages in the SIM memory saved by you. [10] represents the total number of messages saved in the Outbox.
- **Saved box:** Stores messages drafted from Inbox or Outbox. Store in the Phone memory. [10] represents the total number messages in the Save box.
- **Text Templates:** Displays the basic Templates.
- **Settings:** Sets up the environment of text messages.
- **Memory Info:** Displays the free space of SIM or the phone memory.


1.1.1 Write New

Select 'Menu→1.Messages→1.Text Messages → 1.Write new' and press the [OK] key.

Using this menu, you can write messages, containing text, images and melodies.

① Create a message.

On the first line of the display, you see the number of remaining characters you can enter, and the number of current

message you are writing like as .

Note: For further information about how to enter characters, refer to the Entering Text menu.

② While entering your message, press the **Options** soft key to use the following options.

- **Add Picture:** Press the [Left/Right] key to select an item and press the [OK] key to load the selected item.
- **Add Animation:** Press the [Left/Right] key to select an item and press the [OK] key to load the selected item.
- **Add Melody:** Press the [Up/Down] key to select a melody and press the [OK] key and the melody will be set up and played once.
- **Add Emotion:** Press the [Left/Right] key to select an item and press the [OK] key to load the selected item.
- **Add Template:** Insert a clause stored in Template.
- **Language:** English, French, Simplified, Traditional, Russian, or Thai.

Once selected, the language will be displayed at the bottom of right corner.

1.1.2 Sending and saving a message

① When you have finished entering your message, press the [OK] key.

[Send Option] menu will be popped up with the following options.

- **Send:** You may input the receiver phone number for yourself..
- **Send & Save:** To sends out messages like [SEND]. Sent messages are automatically saved in Outbox.
- **Save:** To saves a written message in Outbox.

② Input a destination number on the Number Screen
You can search for a number in the Contacts or Recent Calls by pressing the [Option] soft key.

You can add multiple destinations up to 5 for sending the message.

③ Press the [OK] key and the transmitting progress will be displayed with the sending animation.

If you fail to send out a message, press the [Retry] soft key to retry for sending or press the [No] soft key to save the message in Outbox.

1.1.3 Inbox

Select 'Menu >1.Messages>1.Text Messages>2.Inbox'.

Select Inbox and press the [OK] key to see the messages received one by one.

Select [Reply] soft key at the bottom of right corner to write a new message, converting the screen with Write New.

(Refer to 3.1.1 Write New.)

Callback Number was already registered in Reply and additional registration is possible.

Select [Option] soft key on the left of Total Message List to select the following menu.

- **Forward:** Transmits the received messages to the other receiver directly.
- **Edit:** Edits the received messages for sending.
- **Delete:** Deletes the selected messages.
- **Delete All:** Deletes all the messages in Inbox.
- **Reply:** Writes and transmits a new message with a basic value of your number.

Select a message and select [Option] soft key on the left to select the following menu.

- **Forward:** Forwards the received messages to the other receiver directly.

- **Edit:** Edits the received messages.
- **Cut Objects:** Saves the object in the received messages.
- **Cut Numbers:** Selects any number in the received messages.

Select a function from View to extract and list up numbers in the messages. Press the Save Soft key to add each number to the new or existing Contacts entry.

- **Cut URLs:** Selects a function from View to extract and list up URLs in the messages. Press the Save Soft key to add them to Bookmark.
- **Move to Saved Box:** Saves the selected messages in Saved Box. The old message will be deleted.
- **Delete:** Deletes the selected message.
- **Return Call:** Calls the person who sent message.
- **Reply:** Writes and transmits a new message with a basic value of transmitter's number.

1.1.4 Outbox

Select 'Menu>1.Messages>1.Text Messages>3.Outbox'.

Outbox stores any messages that you have already sent or just saved without sending.

You can choose options by pressing the [Options] soft key:

Select Outbox and press the [OK] key to see the messages sent one by one.

- **Delete:** Deletes the message.
- **Delete All:** Deletes all the messages in Outbox.
- **Edit:** Edits the message and sends.
- **Resend:** Resends the message for failed or pending messages.

Select a message and select [Option] on the left to select the following menu.

- **Move to Saved box:** Moves the messages to Saved Box. The old message will be deleted.
- **Delete:** Deletes the message.
- **Edit:** Edits the message.
- **Resend:** Resend the message for failed or pending messages.

1.1.5 Saved Box

Select 'Menu>1.Messages>1.Text Messages>4.Saved Box'

The message to be saved in Saved Box has been forwarded from Inbox or Outbox.

All messages keep their feature as if they were in the existing box and each option is applicable.

1.1.6 Text Templates

Select 'Menu>1.Messages>1.Text Messages>5.Text Templates'.

Basically 5 are supplied and additionally 10 more can be added by you. The existing template (preloaded) is undeletable.

Select a text template menu and press the [OK] key to use the following options.

- **New:** Makes a new template.
This is not available while template has no space.
- **Delete:** Deletes a template.
This is only available for user defined templates.
- **Edit:** Edits a template.
Press the [OK] key to save the edit template.

Select a message and press the [OK] key to display the following menu.

- **Send:** Refer to Write New.
- **Delete:** Deletes a template.

1.1.7 Setting

Select 'Menu>1.Messages>1.Text Messages>6.Settings'.

Using this menu, you can set up default SMS information.

The following options are available:

- **Message Centre:** allows you to store or change the number of your SMS centre required when sending messages. You must obtain this number from your service provider.
- **Message Life Time:** allows you to set the length of time your messages are stored at the message centre while attempts are made to deliver them.
- **Message Type:** allows you to set the message type to **Normal**, **Fax**, **Voice mail**, **ERMES**, **Nation' 1 paging**, **X400**, or **Internet**. The network can convert the messages into the selected format

1.1.8 Memory Info

Select 'Menu>1.Messages>1.Text Messages>7. Memory Info'.

Select Memory Info and press [OK] key to display the free space of the current SIM memory (Inbox and Outbox) and Saved Box (Phone Memory).

1.2 Multimedia Messages

Select 'Menu>1.messages>2. Multimedia Msg'.


Multimedia Message Service (MMS) is a messaging service very similar to Short Message Service (SMS). It provides asynchronous delivery of personal multimedia messages from between phone and phone, phone and e-mail.

In addition to the familiar text content of text messages, multimedia messages can contain images, graphics, and sounds.

An MMS message is a multimedia presentation in a single entry. It is not a text file with attachments.

Using the MMS feature, your phone can receive multimedia messages. You can also send picture messages. This function is available only if it is supported by your service provider. Only phones that offer multimedia message features can receive and display message messages.

Managing memory

When the memory is full, the New message icon () appears (It disappears when you read new messages)

If you cannot receive any new messages, you must delete one or more old messages to get free memory for new messages using the **Delete** option within the Inbox, Outbox, Saved box, or the **Delete all** option.

Notes: Multimedia message boxes, Camera, Java, and Media Gallery share a given amount of memory in your phone. You can also use the **Delete** or **Delete all** option to delete some sounds or images in Camera, or Media Gallery.

- **Write New:** Writes a new MMS.
- **Inbox:** Displays the message received.
Save them in the Phone memory.
- **Outbox:** Displays the message sent.
Save them in the Phone memory.
- **Saved box:** Saves the messages from Inbox and Outbox or drafted. Save the messages in Saved Box in the phone memory.
- **MMS Templates:** Displays basic templates
- **Settings:** Sets up the MMS environment.
- **MMS Profiles:** Sets up the MMS profile.
- **Memory Info:** Indicates the free space of the phone memory.

1.2.1 Write New

Select 'Menu>1.messages>2. Multimedia Msgs.>1. Write new' and press the [OK] key.

It is displayed the slide information on more than one slide on the top right corner.

You can add, edit/replace, or delete objects or templates to MMS

with the following option.

This menu option allows you to create a new multimedia message and then send it to multiple destinations.

① Press the **Add** soft key and Select one of the following items using the **[Up/Down]** key.

■ **Add Text**

Enter a new message. For further details, refer to the Entering Text menu.

Note: To return to previous screen while entering a message, press long the **[C]** key.

■ **Add Image**

To add a your image in the Image Gallery, Select one of the images by pressing the **[OK]** key. The image list is displayed. For further details, refer to the Image Gallery menu.

■ **Add Sound**

To add a your sound in the Sound Gallery, Select one of the sounds by pressing the **[OK]** key. The sound list is displayed. For further details, refer to the Sound Gallery menu.

■ **Add Photo**

To add a your photo in the Photo Gallery, Select one of the photos by pressing the **[OK]** key. The photo list of the each directories is displayed. For further details, refer to

the Photo Gallery menu.

■ **Take a Photo**

To add a new photo, take a photo using camera feature. For details about camera feature, see the Camera menu.

■ **Add Template**

You can add the MMS template messages.

Add Template is available on condition of no item in the slide. With more than a slide, Add Template will not be supplied

■ **Add Slide**

You can add new slide page to create more.

It allows you to move to each slide page using the **[Left/Right]** key on the message composer screen.

In case of more than one slide, '**Delete Slide**' is added in the option

② Press the **Option** soft key to use the following options.

■ **Preview**

It shows your message as it will display on the recipient's phone.

■ **Delete Object**

Allows the current selected object to remove in the slide page.

■ **Slide Timing**

It allows you to set how long one slide page of the received messages displays. After a specified time, the

display automatically scrolls to the next slide page.

- **Page Layout**

It allows you to arrange the image and text display position in the slide page.

You can set 'Image at Top' or 'Text at Top'.

- **Add Template**

You can add the MMS template messages.

Add Template is available on condition of no item in the slide. With more than a slide, Add Template will not be supplied

- **Add/Replace Objects**

It allows to add new image, photo, sound or text objects.

- **Edit Subject**

It allows you to edit or change the subject.

(Refer to Entering Text.)

1.2.2 Sending and saving a message

② When you finish creating the message, press the **[OK]** key.

[Send Option] menu will be popped up with the following options.

- **Send:** You may input the receiver phone number for yourself.

- **Send & Save:** To sends out messages like **[SEND]**. Sent messages are automatically saved in Outbox.

- **Save:** To saves a written message in Outbox.

- **Save as Template:** To save current message in Template.

③ Select an entry on the Send screen.

If it is an empty entry, enter a destination.

You can search for a number in the Contacts by pressing the option soft key.

④ To send the message to multiple destinations up to 9, repeat step 3.

⑤ When you have finished entering the destinations, press the **[OK]** key.

Note: In case the MMS size reaches its transmission limit, a message for information pops up.

If you fail to send out a message but forget to save it, it will be automatically saved in Outbox. The 'Save' option is not applicable to a message once saved.

1.2.3 Inbox

Select 'Menu>1.messages>2. Multimedia Msgs.>2. Inbox' and press the **[OK]** key.

Select Inbox and press the **[OK]** key to display the messages received one by one.

Select [Reply] on the bottom right corner to choose either 1. Text Message(Refer to 3.1.1 Write New.) or 2.Multimedia Message (Refer to 3.1.2 Write New.).

You can receive a MMS notification through the SMS network and read only the MMS message downloaded by you.

While 'Auto Download' is On, skip notification and save the message in Inbox as unread.

Check a new message from MMS Inbox.

Select [Download] of Notification to download a remote message.

Select [Option] on the left of the whole message list to select the following option.

- **Forward:** Transmits the messages received to the other receiver directly.
- **Delete:** Deletes the selected messages.
- **Delete All:** Deletes all the messages in Inbox.
- **Reply:** Writes and transmits a new message with a basic value of receiver's number.

Select a message and select [Option] on the left to select the following menu.

- **Replay:** Replays the message.
- **Reply:** Writes and transmits a new message with a basic value of receiver's number.
- **Forward:** Forwards the messages received to the other

receiver directly.

- **Edit:** Edits the selected messages.
- **Cut Objects:** Displays all the objects memorized in a message
- **Move to Saved Box:** Saves the messages in Saved Box. The old message will be deleted.
- **Save as Template:** Saves the currently written message in a template form.
- **Delete:** Deletes the messages.
- **Message Info:** Displays the information on the selected message.(From, subject, size)

1.2.4 Outbox

Select 'Menu>1.messages>2. Multimedia Msgs.>3.Outbox' and press the [OK] key.

Outbox stores messages that you sent, you failed to send and you cancelled sending.

When the **Outbox** menu option is selected, the list of messages you have sent or saved displays with the:

- message's subject or No subject if the message had no subject.
- recipient's phone number
- message status; for a sent message, for a message that you failed to send or you cancelled sending, for a delivery

report.

To view a message, scroll to it and press the **[OK]** key.

To scroll through the message, press the **[Up/Down]** key. When the message has more than one page, you can press the **[Left/Right]** key to move through the pages or the pages are moved through as paging timing that sender fixed automatically.

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You can choose the following options by pressing the **Option** soft key:

- **Resend:** Resends the message.
- **Edit:** Edits the messages.
- **Move to Saved box:** Moves the messages to Saved Box. The old message will be deleted.
- **Save as Template:** Saves the currently written message in a template form.
- **Delete:** Deletes the messages.
- **Replay:** Replays the message.

1.2.5 Saved Box

Select 'Menu>1.messages>2. Multimedia Msgs.>4.Saved Box' and press the **[OK]** key.

The message to be saved in Saved Box has been forwarded from

Inbox or Outbox.

All messages keep their feature as if they were in the existing box and each option is applicable.

You can move the files in Saved Box to the folder where each file came from with the 'Move' function.

1.2.6 MMS Template

Select 'Menu>1.messages>2. Multimedia Msgs.>5.MMS Templates' and press the **[OK]** key.

Select 'MMS Templates' and press the **[OK]** key to display the messages saved in Template one by one.

- **New:** Makes a new template.(Refer to Write New.)
- **Delete:** Deletes the selected template.
- **Delete All:** Deletes all the templates inside MMS Template.
- **Edit:** Edits and save a message(Refer to Write New.).

Select a specific template and select **[Option]** on the left to choose one out of Replay, Edit, Send, Delete, and Menu.

- **Replay:** Replays the template.
- **Edit:** Edits the template.(See Write New.)
- **Send:** Sends the template.(See Write New Send.)
- **Delete:** Deletes the template.

1.2.7 Settings

Select Menu>1.messages>2. Multimedia Msgs.>6.Settings and press the [OK] key.

Using this menu, you can set up default settings for sending or receiving MMS message. The following options are available:

■ Message Life Time

It allows you to set the length of time your messages are stored at the message centre while attempts are made to deliver them.

You can select one of 1 Hour / 2 Hours / 6 Hours / 1 Day / 2 Days / 1 Week / 4 Weeks / 6 Months.

■ Auto Download

It allows you to set how you receive a message. You can select one of On and Off

■ Delivery Report

When this option sets to **On**, the network informs you whether or not your message has been delivered.

■ Read Report

When this option sets to **On**, your recipient's phone sends a reply to let you know when your message was read by her/him

■ Read Rep. Allow

When this option sets to **Off**, your phone does not send a reply to the recipient's phone even if the sender asks for the read reply

■ Spam Filter

When this option sets to **On**, you can reject advertisements by service provider

You can select one of Off / Prompt If Spam / Reject Spam.

1.2.8 MMS Profiles

Select Menu>1.messages>2. Multimedia Msgs.>7.MMS Profiles and press the [OK] key.

Select 'MMS Profiles' and press the [OK] key to display the current profile list. Unedited profiles are not selected. Choose a profile to edit and the 'Edit Profile' window will pop up.

■ Profile Name: Input the profile name.

■ MMS Centre: Input the connection URL.

■ GSM Setting: Set up the GSM environment.

□ Gateway

◆ IP Address: Input the IP address. A comma will be added every 3 digits.

◆ IP Port: Input the IP port number for yourself.

◆ Login ID: Input the password to sign in Gateway.

◆ Password: Input the password to sign in Gateway.

□ Data Call Type: Press the [Left/Right] key to choose either ISDN or Analogue.

□ Dial Number: Input the dial number for yourself.

□ Login ID: Input the ID to sign in GSM.

- Password: Input the password to sign in GSM.

- GPRS Setting: Set up the GPRS environment.
 - Gateway
 - ◆ IP Address: Input the IP address. A comma will be added every 3 digits.
 - ◆ IP Port: Input the IP port number for yourself.
 - ◆ Login ID: Input the password to sign in Gateway.
 - ◆ password: Input the password to sign in Gateway.
 - APN: Input the Access Point Name for yourself.
 - Login ID: Input the ID to sign in GPRS.
 - Password: Input the password to sign in GPRS.
- Bearer: Press the [Left/Right] key to choose either GPRS Only / GSM Only.
- Clear Profile: Deletes all the profiles in possession.

1.2.9 Memory Info

Select 'Menu>1.messages>2.Multimedia Msgs.>8. Memory Info' and press the [OK] key.

You can see the occupied or full space of the memory.

1.3 Broadcast

Select Menu>1.messages>3.Broadcast and press the [OK] key.

This function is dependant on your Network provider, please ask them for detailed information. You can receive information messages offered by your network provider. This function is to set the topics of the info. Messages you want to receive that are offered by the Network.

1.3.1 Receive

Select 'Menu>1.messages>3.Broadcast>1.Receive' and press the [OK] key.

Press the [Left/Right] key to receive the message or not.

1.3.2 Read Message

Select 'Menu >1.messages>3.Broadcast>2.Read Message' and press the [OK] key.

You can read a received message.

1.3.3 Topic List

Select 'Menu>1.messages>3.Broadcast>3.Topic List' and press the

[OK] key.

Current List: Displays the current Topic list.

Press the [Option] key to:

- Insert: Inserts a topic.
- Delete: Deletes a topic from the list.
- Edit: Edits a topic.

Add My Topic: adds My Topic.

Note: Unable to delete or edit the predefined topic. Able to edit or delete My Topic only.

1.3.4 Language

Select 'Menu>1.messages>3.Broadcast>3.Language' and press the [OK] key.

Choose one out of All, English, Chinese, or Deutsch.

Note: The language varies on the region.

1.4 Voice Mail

Option

Select 'Menu>1.messages>4.Voice Mail' and press the [OK] key.

Contact the voice mailbox in the scope of the network company to check a voice mail.

- Call: Call the predefined voice mail system to check a voice mail.
- Voice mail Number: Input the voice mail receiver number for yourself.
- Roaming mail Number: Input the Roaming Mail Number for yourself.

This is only available if your network provider supports the Roaming mail number service.

2. Contacts

Make your personal contacts for which addition or deletion is free at anytime. Choose some of the records to save them in SIM or the Phone memory. As many as 800 items can be listed in the Contacts.

2.1 Adding a new contact

Select 'Menu → 2.Contacts → 2.Add Contact'.

You can add other's information to the contacts. An empty field is filled with gray text but these texts disappear and are replaced with new texts the moment you input them.

Depending on the Memory in Use setup, the following field is seen to you.

- Phone: Name, Mobile, Home, Office, Fax, Group, Picture, Melody, Email, and Memo.
- SIM: Name, Mobile, and Group
- Phone or SIM: able to choose either Phone or SIM when you save a number.

2.2 Editing the Contacts

You can edit the contact.(the same screen with Add Contacts)


2.3 Searching a Name/Group/Photo

2.3.1 Name Search

Select 'Menu → 2.Contacts → 1.Search → 1.Name Search'.

You can search a phone number from the Contacts in the following procedure.

- ① Input a name.
The contact list is shown and the cursor is placed on an item that matches your input data.
- ② Press the **[Left/Right]** key to view the recorded numbers.
- ③ Press the **[OK]** key to view all.

Press the Option soft key [] to:

- **Edit:** Raises the Edit Contacts window to edit a content.
- **Move:** As far as the selected number stays in the Phone memory, it can be moved to the SIM card.
- **Send Message:** Sends a message to a selected one.
- **Delete:** Deletes the selected item.
- **New Contact:** Goes to Add Contact.
- **Add to speed dial:** Adds to Speed dial.

2.3.2 Group Search

Select 'Menu → 2.Contacts → 1.Search → 2.Group Search'.

You can search a phone number of each group.

2.3.3 Photo Search

Select 'Menu → 2.Contacts → 1.Search → 3.Photo Search'.

You can search a phone number by matching the photo saved in the Contacts.

2.4 Group Setting

Select 'Menu → 2.Contacts → 4.Groups'.

You can change the settings of the five predefined caller groups.

Default Groups: No Group, Family, Friends, Business, VIP

You can change the group ring tone by pressing 'Group Ring tone' of the option menu.

Also, you can add your preferred new groups by pressing the right soft key.

2.5 Speed dial setting

Press a number in the Contacts in the idle mode for Speed Dial.


If you add Speed Dial, use Add to Speed Dial of the options. The Speed Dial number ranges from No. 2 to No. 99, summing up to 98 dials.

2.5.1 To set the speed dial;

Press the [Up/Down] key to move to Empty and press the [Add] key.

Press the [Up/Down] key to choose a person and press the [Left/Right] key to select his number..

Press the [OK] key to save an item in the Speed Dial list.

Press the Option soft key [] to;

- **Remove:** Deletes an item.
- **Edit:** Edits an item. The Edit procedure has one thing in common with New, overwriting all the old numbers.

2.6 Delete all

You can delete all the information saved in Phone/ SIM Card.

2.7 Memory Info

It displays the status of the Phone/SIM memory in current use.


2.8 Service Number

Select 'Menu → 2.Contacts → 1.Search → 3.Service Number'.

This feature may not be available depending on your SIM card.

The display shows the list of the numbers in the SDN (Service Dial Number).


If necessary, scroll to a number by pressing the [Up/Down] key

and press the [] key to dial the number.

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3. Call Logs



Press the [] key to see the recent call logs in the idle mode or select 'Menu → 3.Call logs'.

This function displays missed calls, received calls, and Dialed calls. You can delete a call log and see the information for the call timer, call cost, and GPRS in this menu.

Note: When Contact contains the phone number that you want to dial, the name is displayed and Number, Date, and Time are alternately displayed in Call Screen.

Otherwise, the number is displayed and only Date and Time are displayed in Call Screen.

Press SEND with the cursor placed on the number or name to dial the number.


3.1 Missed Calls

Select 'Menu → 3.Call logs → 1.Missed Calls'.

It displays the missed calls list accompanied by the time and date of a missed call as well as the number or name of the receiver.

Press the **[Left/Right]** key for selection.



Press the Option soft key [] to;

- **Delete:** Deletes the call record being indicated by the list
- **Delete All:** Deletes all the records from the list.
- **Send Message:** Sends a message to the call record.

When the call is not found in Contact, the **Save Number** option will be created.


3.2 Received Calls

Select 'Menu → 3.Call logs → 2.Received Calls'.

It displays the received calls list accompanied by the time and date of a received call as well as the number or name of the caller.

Press the [Left/Right] key for selection.



Press the Option soft key [] to;


- **Delete:** Deletes the call record being indicated by the list
- **Delete All:** Deletes all the records from the list.
- **Send Message:** Sends a message to the call record.

When the call is not found in Contact, the **Save Number** option will be created.

3.3 Dialed Calls

Select 'Menu→3.Call logs→3.Dialed Calls'.

It displays the Dialed calls list accompanied by the time and date of a Dialed call as well as the number or name of the receiver. Press the **[Left/Right]** key for selection.

Press the Option soft key [] to;



- **Delete:** Deletes the call record being indicated by the list
- **Delete All:** Deletes all the records from the list.
- **Send Message:** Sends a message to the call record.

When the call is not found in Contact, the **Save Number** option will be created.

3.4 Delete Call Logs

Select 'Menu→3.Call logs→4.Delete call Logs'.

It deletes the missed, received, or Dialed calls or deletes all the call records with All.

Press the YES key [] or NO key [] to execute or cancel this function.

3.5 Call Timer

Select 'Menu→3.Call logs→5.Call Timer'.

It notifies the information on call time.

- **Last call time:** Date and Time.
- **Received, Dialed, All call time:** Call Time only.
- **Reset call times:** Initializes call timer. Input the phone password and press the **[OK]** key.

3.6 Call Cost

Select 'Menu→3.Call logs→6.Call Cost'.

It records the information on call cost, and limits the call charge to avoid overcharge.

- **Last Call Cost:** Displays the cost of the last call.
- **All Call Cost:** Displays the cost of all calls.
- **Clear Logs:** Input PIN2 to delete all the logs of call cost.
- **Max Cost:** Read or set up the maximum value of the call cost unit in a service area.

This function has the following sub options.

1. **Read Limit:** Reads the maximum unit value.
2. **Set Limit:** Sets up the Max units.

- **Cost Unit:** Reads or sets up the unit defined in a service area.

This function has the following sub options.

1. **Read Unit:** Reads the cost unit.
2. **Set Unit:** Sets up the current cost unit and the cost per unit.

3.7 GPRS Info

Select 'Menu→3.Call logs→7. GPRS Info'.

It displays the capacity of data transmission by GPRS.

- **Current Info:** Displays the total transmission Kbytes at the moment.
- **Last Info:** Displays the total transmission Kbytes in the past by GPRS.
- **All Info:** Displays the total transmission Kbytes since GPRS was connected.
- **Clear Logs:** Deletes the log related to GPRS.

4. Fun & Tools

4.1 Camera

The camera of your phone can shoot photos or video images in many ways. The captured photos or video images can be saved or edited in case of photo only.

* **Tip:** Press the **[Camera]** key short in the idle mode to convert into the camera menu list immediately.


4.1.1 Take a Photo




1. Select '4.Fun&Tool>1.Camera>1.Take a Photo' in the menu in sequence.

* **Tip:** Press the **[Camera]** key or the **[C]** key long in the idle mode to enter the capture mode immediately.

2. Adjust the image by aiming the camera to the subject.


Press the Right Soft key [] to change the capture mode.

Capture Mode	Icon	Description
Single Capture		A general mode for one cut

Multi Capture		A mode to shoot multi photos with the quantity and speed determined by 'Multi Capture' of the option
Sticker Capture		A capture mode by applying the saved sticker Able to change the sticker by the 'Sticker' of the option. Image size of 128X124 size (fixed one)
Pattern Capture		A mode containing multi photos in a screen for save

3. Press the **[OK]** key or **[Camera]** Key short to shoot the image in the current preview.

Press the **[Side Up/ Down]** key to zoom an image in proportion to the original ratio. Use the **[Navigation]** key to scroll and view the image enlarged larger than LCD.





Press the Cancel key [] or **[C]** key to return to the camera preview screen for re-capture.

In the Multi Capture mode, select **[Mark]/[Unmark]** to check a box of an image out of the several capture images for save.


4. Select **[Save]** and the Save Option screen will appear to select an photo album and edit photo's name for save

In the Multi Capture mode, the name will be automatically as a default. However, you may input the name yourself if you select only one image for save.

Definition of Camera Function Control Soft Key during Flip Open

Function	Available Menu	Soft Key
Icon Size	LCD / QVGA / VGA	 []
Image Quality	Normal / Low / Fine	 []
Image Effect	Select the Effect	[Down]
Brightness	6 Levels from 0 to 6	 []/[]
Zoom	Control by levels (Icon appears in Zoom In status)	[Side Up/Down]
Flash	On / Off	 []
OSD	On / Off	[0]
Self Timer	Popup (None / 5 Secs / 10 Secs)	[7]
Sticker	Apply effect.	[9]

4.1.2 Using the Camera Options

Press the  key in the Capture mode to select the following information which will be applied for the image.

- Image Size: The size of image that you want to shoot
LCD(128X140), QVGA(320X240), VGA(640X480)

- Flip: Reverses
- Rotate: Rotates
- Image Quality: Normal/Low/Fine (Default: Normal)
- Sticker: Press the **[Left/Right]** key to select a sticker.
Press the **[OK]** key after sticker selection to return to the sticker capture mode.
- Photo Gallery: Moves to the 'Photo Gallery'
- Self Timer: Select SHOOT for setup and the camera will shoot after the preset time. When the camera mode is off, the setup value will return to the value as set by the setting
- OSD: Determines to display the icons in the screen
- Time Stamp: On / Off. When the camera mode is off, the setup value will return to the value as set by the setting
- Multi-Capture: Controls the number and speed of continuous capture. When the camera mode is off, the setup value will return to the value as set by the setting.

4.1.3 Take a Video

1. Select 'Fun &Tool>Camera>Take a Video' in the menu in sequence to enter the Video Capture mode.
2. Upon entering the Video Capture mode, the video image focused by the camera lens of Internal LCD will be displayed.
 - The video image size is fixed to LCD(128X124).
3. Adjust the image by aiming the camera to the subject.
Use the **[Side Up/Down]** key to zoom In/Out and use **[Left/Right]**

key to control the brightness.

4. Press **[OK]** key to record the image in preview.

5. Press the **[C]** key to cancel recording to return to the Preview screen

Press the **[Stop]** key to stop recording.

6. If you press the **[Save]** key, the Save Option screen will pop up to select an album to be saved and edit a video file name. When 'Auto Save' is on at the camera setting, the set name and album will be automatically saved without any Save Option screen.

Press the **[C]** key to return to the Preview screen without saving video images.

Press **[Play]** to play the recorded video images.

■ Options:

- Image Effect: Applies Effect to the Video.
- Video Gallery: Moves to 'Video Gallery'

4.1.4 Sticker Gallery

This menu provides the stick frame saved in your phone.

1. Select 'Menu>4.Fun &Tool>1.Camera>5.Sticker Gallery' in the menu in sequence to gain an access to Sticker List.

The sticker gallery has 10 defaults basically but it is able to support user made 10 defaults additionally.

The size of stickers is 128X124.

2. After selecting a sticker, press the **[OK]** key or select **[Large]**

to zoom in the sticker frame.

Press the **[Left/Right]** key to call other sticker frame in the zoom-in screen.

■ Options:

- Sticker Capture: Moves to the Sticker Capture mode.

4.1.5 Settings

This changes the camera option default values.

- Image Size: The size of an image to be captured
LCD (128X140), QVGA (320X240), VGA (640X480)
- Image Quality: Normal/Low/Fine
- Shutter Sound: Off / 123 / Smile / Whisky / Cheese=
- Self Timer: Select SHOOT for setup and the camera will shoot at the preset time. None / 5secs / 10secs
- Auto Save: When Auto Save is on, the default name and album name will be automatically saved by Capture. On / Off
- Time Stamp: On / Off
- Multi-Capture: Control the number of continuous capture and speed.
 - Quantity: 4 / 6 / 9
 - Speed: Slow / Normal / Fast

4.2 Media Gallery

Select 'Menu>4.Fun&Tool>2.Media Gallery'.

4.2.1 Photo Gallery

This function provides Viewing or editing the photos saved in your phone.

4.2.1.1 Views the Saved Picture.

1. Select 'Menu>4.Fun&Tool>1.Camera>3.Photo Gallery' or '4.Fun&Tool>2.Media Gallery>1.Photo Gallery' in the menu in sequence to gain an access to Photo Album List.

2. Press [**New**] to add albums to Photo Gallery.

- Up to 7 albums (including default album('My Photo'))

Press [**Option**] to rename or delete the user made album.


3. Select an album from the list and press the [**OK**] key to display the photo list in the album..

Use [**Small**] or [**List**] to change the list type(Small Photo/List).

4. Select a photo and press the [**OK**] key to view the photo largely

Press the [**Left/Right**] key to view other photos in the album.

4.2.1.2 Using the Photo Options

Press the Option Soft key [] to apply the following option to a selected photo of the album.

- Set As: 1. Wallpaper – Adds a photo to 'My Wallpaper' of Display Setting to be set to the background image of the main screen.

2. Contact – Sets to a specific photo image of Contact.

- Search: Searches the album for a file with the name.

- Rename: Renames a photo.

- Crop Photo: Press [**Side Up/Down**] key to zoom in or out a photo and save it again. This time, the image size will be converted into the LCD size.

- Delete: Deletes a photo.

- Delete All: Deletes all the photos in the album.

- Information: Views the information on a photo.

4.2.2 Video Gallery

1. Views or edits the video image saved in your phone.

Select 'Menu>4.Fun &Tool>1.Camera>4.Video Gallery' or '4.Fun &Tool>2.Media Gallery>2.Video Gallery' in the menu in sequence to gain an access to Video Album List.

2. Select [**New**] to add albums to Video Gallery.

- Up to 7 albums (including default album ('My Video'))



Press the [] key to rename or delete the user made album.

3. Select an album from the list and press the [**OK**] key to display

the video list in the album.

Select [**Small**] or [**List**] to change the list type

4. Select a video and press the [**OK**] key to play the video image automatically.

Use [] / [] to pause or play a video image.

Use [**Stop**] to pause the play and go back to the list.

4.2.3 Image Gallery

You can view or edit the image or information recorded in your phone in this menu.

Select 'Menu>Fun &Tool>Media Gallery>Image Gallery' to the list of images saved in your phone.

Below the list, you will see the following information if the image is;


- Default image: Capacity of image
- Download image: Recording date and capacity of image

Note: Only wbmp, bmp, jpeg, png, or gif format is seen from the image gallery.(MMS is available.)

Select [**Large**] or press the [**OK**] key to zoom in the image selected from the list.

Press the [**Left/Right**] key to view other images in the list.

Select [**List**] to be back to the list.

Press the [] key to apply an option to the image concerned.

- **Option:** Set as Wallpaper, Search, Rename, Photo Studio, Delete, and Image Info. (Refer to Photo Gallery Option for the function.)
Only download images can be renamed or deleted.

4.2.4 Sound Gallery

This menu let you hear the sound recorded in your phone or edit the information.

Select 'Menu>Fun &Tool>Media Gallery>Sound Gallery' to display the list of sounds recorded in your phone.

The selected melody automatically sounds one time.

Press the [] key to apply the option to the sound concerned.

- Option: Delete, Sound Info, Set as Ring Tone,
Refer to the Photo Gallery Option for its function.
Only download images can be renamed or deleted.

4.2.5 Sticker Gallery

This menu provides the stick frame saved in your phone.

1. Select 'Menu>4.Fun &Tool>1.Camera>5.Sticker Gallery' in the menu in sequence to gain an access to Sticker List.

The sticker gallery has 10 defaults basically but it is able to support user made 10 defaults additionally.

At the bottom of the list, the following sticker information will be displayed if the sticker chosen from the current list;

- Default Sticker: "Predefined"
- User Made: Date of Save and Capacity

Press the **[OK]** key or select **[Large]** to zoom in the sticker frame.

Press the **[Left/Right]** key to call other sticker frame in the zoom-in screen.

Options:

- Sticker Capture: Moves to the Sticker Capture mode.
- Rename: Renames a sticker frame.(for user made only)
- Delete: Deletes a sticker frame.(for user made only)

The size of stickers is 128X124.

4.2.6 Settings

This changes the camera option default values.

- Image Size: The size of an image to be captured
LCD (128X144), QVGA (320X240), VGA (640X480)
- Image Quality: Normal/Low/Fine
- Shutter Sound: Off / smile / 123 / shutter / ready go
- Self Timer: Select SHOOT for setup and the camera will shoot

at the preset time. None / 5secs / 10secs

- Auto Save: When Auto Save is on, the default name and album name will be automatically saved by Capture. On / Off
- Time Stamp: On / Off
- Multi-Capture: Controls the number of continuous capture and speed.
 - Quantity: 4 / 6 / 9 / 12 / 15
 - Speed: Slow / Normal / Fast

4.2.7 Memory Info

Display the memory information of Photo, Image, and Sound files in use of your phone.

4.3 Game

AD 2043, Alien attacked the earth. The only hope of the earth is resistant armies organized to keep the peace of the earth in various area. The player join with the Phoenix team, the best air force consisted of specialists and start in flight to attack the main base of alien.

As Going on the stage, intelligent Attack patterns of enemy with plentiful special effect sound and various background designs will make you more fun and exciting.

[Game Screen]

Keys	[LEFT/4]	Move Left
	[RIGHT/6]	Move Right
	[Up/2]	Move Up
	[Down/8]	Move Down
	[1]	Move Left-Up
	[3]	Move Right-Up
	[7]	Move Left-Down
	[9]	Move Right-Down
	[OK/5]	Active / Inactive Fire
	[*]	Pause
	[#]	Special Bomb

4.4 Java

You can download and execute the java application. The java application for a cellular phone is called a Midlet. Use the WAP browser to search a Midlet and download it to be installed to your phone.




* The Midlet is not built in the current model so you shall download a Midlet at your choice.

4.4.1 View of Java Application List

Select 'Fun &Tools > Java' in the menu to select a Java menu.
Select '1. Midlet List' to view the Java Application list stored in your phone.

4.4.2 Java Application Execution/Deletion/Information Search

Select 'Fun &Tools > Java' in the menu to select a Java menu.
Select '1. Midlet List' to view the Java Application list stored in your phone.
Press the **[Navigation]** key to select an application.
MENU has an option to control the Midlet.

To	Press the
Run the Midlet	[OK] key
View Detail Information	[] and select [Information] or press the [] key.
Delete the Midlet	[] and select 1.Delete.

4.4.3 View of Java Application Memory

Select '2.Memory Info' to see the memory used for Midlet.

4.5 Auto Answer

Auto Answer transmits response messages and record a message from a remote user while a call is active (in call).

Auto Answer

Turns Auto Answer On or Off. If the value is **On**, this function is useful.

Recorded Message

Displays a list of recorded messages during call active(In call). Each list displays the date & time recorded in the file and the message caller ID as well. Press the [**Delete**] key to delete the message in the View List and press the [**Send**] key to connect a call through the caller ID.

Response message

Depending on the current status of a local user, deliver the response message to a remote user. The default setting of Response Msg. is “Absent” and “Meeting”, “Driving”, or “User Message” as well. “User message” is a voice message of a local user recorded for Response Msg. during idle.

Response time

Upon receiving an incoming call, operate Auto Answer Time(3secs /5secs /10secs/ 20secs) to automatically accept the call. When the

time expires, transmit predefined Msg. or user Msg. to a remote user, and recording starts with a beep sound.

User Message

Displays the voice message list of a local user recorded for Response msg. Press the [**Play**] key for play. In case of no user message record, play a role of recorder.

* **Tip:** Hidden Functionality Description

1. Gaining a direct access to ‘Auto Answer’ Menu from Idle Screen
Press long the [**Side Up**] key to gain a direct access to a menu.

2. Overhearing recorded message in call


Let a local user overhear the conversation of a remote user while a remote user records his conversation.

Meanwhile, disable the output channel to prevent the local user voice from being remotely transmitted.

When recording stops at the maximum recording time, so does the call while recording the message.

3. Accepting a call during call recording




The local user can accept a call by pressing the [] key while Answering Machine is active and the remote user is recording the message.

4. If you receive an incoming call for saving the recorded message, the answering machine mode for the call is deactivated regardless of whether the function is set “On”

5. When the number reaches its limit, the ‘Auto Answer’ mode is not available.



6. Press the [] key before your phone converts into the answering machine mode the moment a call comes and you are able to accept it though Auto Answer is “ON”.

7. All voices are heard from a headset as far as it is inserted.

8. Select “User message” for user message setup. If you try to setting up “User message” in the state of no user message, the setting is not accomplished and the screen pops up “Please record..”)

9. If a user message which has been preset to Response msg is deleted, and the setting of a response message will be automatically converted into “Absent”.

10. Idle Screen Indication Icon

An icon indicating Auto answer “On” and the existence of Recorded msg. will be displayed in the Idle screen.

4.6 Voice Memo

The Voice Memo function records your voice. Record, Stop, Play, and Save are used for recording and play and the Text Editor window is used for title input.

Record

1. Select New from the option menu and press the [Rec]. Recording starts upon 30 seconds discount.

* **Tip:** When the memory is full, return to the upper menu with a popup window, “Memory is full”.

2. Press the [Stop] key to terminate recording process and press [play] to hear the recorded data.

3. Press [Save], input a name, and press the [OK] key to record data.


Play

1. Select an item and press the [Play] key to start play immediately.

Option


- **Rename:** rename voice memos .
- **Delete:** delete the selected voice memo.
- **Delete All:** delete all voice memos.
- **New:** Creates a Voice Memo

5. Profiles

Select 'Menu>5.Profiles' or press the [] key in the idle mode. Your phone has a number of preset profiles which are set to suit a certain environment.

You can rename and change as your own profiles. For example, when you go to a meeting, you can simply select the Meeting profiles and a number of settings, such as the ring tone is turned off. It has 5 kinds of preset profiles (Normal, Silent, Meeting, Outdoor, Car).

5.1 Ring Tone

Select 'Menu>5.Profiles >1. Ring Tone' and press the [OK] key, or press the [] key and [OK] key in the idle mode and select '1.Ring Tone'.

* You can choose the preferred ring type and melody to ring and ring volume.


- Ring type: Ring, Vibration, Vibration then ring, Vibration and

Ring, Ascending, Quiet

- Ring Volume: Controls the volume by 7 levels.
- Sound: Sound is composed of multi groups such as Melody Sound, Bell Sound and each Group has multi tones. User Sound presents the melody of Fun & Tools -> Media Gallery -> Sound Gallery in consequence.

5.2 Message Alert

Select 'Menu>5.Profiles.>2.Message alert' and press the [OK] key,

or press the [] key and [OK] key in the idle mode and select '2.Message Alert' .

You can select the preferred alerting melody, its volume and reminding period when you have new messages.

- Reminder: Use the [Left/Right] key to select one out of Off, Once, Every 2 Min, Every 5 Min.
- Sound: Use the [Left/Right] key to set Message Alert Tone to Bell1, Bell2, Bell3.

5.3 Key Tone

You can select the keypad sound to be used for dialing or in the menu screen.


Select 'Menu>5.Profiles.>3.Key Tone' and press the [OK] key, or

press the [] key and [OK] key in the idle mode and select '3.Key Tone'.

- Tone Type: You may turn the key tone on or off.
- Ring Volume: Controls the volume by 7 levels.
- Sound: Selects a key tone.

5.4 Flip Open Tone


You can select a sound effect when you open or close the folder. Select 'Menu>5.Profiles.> 4.Flip open tone ' and press the [OK]


key, or press the [] key and [OK] key in the idle mode and select '4.Flip open tone '.

- Tone Type: You may turn the key tone on or off.
- Ring Volume: Controls the volume by 7 levels.
- Sound: You can set Bell1, Bell2, Bell3 to Flip Open/Close Tone.

5.5 Sound Effect

You can turn on or off the default sound effect. Select 'Menu>5.Profiles.> 5.Sound Effect' and press the [OK] key,

or press the [] key and [OK] key in the idle mode and select '5.Sound Effect '.

- Menu Moving: A sound effect when you change a menu with the [Navigation] key.
- Power On & Off: A sound effect when you turn the power on or off.
- Option popup: A sound effect when you press the [] key to see the popup window.
- Call Connection: A sound effect when you dial or hang up.
- WAP Connection: A sound effect when you connect or terminate WAP
- Hour Alert: A sound effect every hour while your phone is in the idle mode
- Minute Minder: A sound effect every hour while you are on a phone call.
- Popup Alert: A sound effect when Warning, Error, Information, or Question Popup occurs.

5.6 Profile Name

Select a profile name menu from the Profile Sound editing screen to rename it on your own.

5.7 Reset

Select the Reset menu from the Profile Sound editing screen and press Yes to initialize all the sound related values in the profile.

6. Settings

Select 'Menu>6. Settings'.

You can set up various kinds of phone functions at your choice in the settings menu.

6.1 Display Settings

Select 'Menu>6.Settings>1.Display Settings'.

You can change the image or colour of the display composition at your choice or necessity.

6.1.1 My Wallpaper

Select 'Menu>6.Settings>1.Display Settings>1.Main Screen' and press the **[OK]** key.

You can change the background image of the main screen.

- My Wallpaper: Sets up Wallpaper by "My Wallpaper". My Wallpaper stores items to set up Wallpaper at Photo Gallery/Image Gallery. Other wallpapers than default may be deleted by the



[] key while the default ones are permanently inerasable.

6.1.2 Wallpaper Type

Select 'Menu>6.Settings>1.Display Settings>2. Wallpaper Type' and press the **[OK]** key.

Digital Clock(default)/Analog Clock #1/Analog Clock #2/Calendar/Greeting/D-day

6.1.3 Style Theme

Select Menu>6.Settings>1.Display Settings>3.Style Theme and press the **[OK]** key.

Press the **[Left/Right]** key to set up 'Icon Style' or 'Dynamic Style'.

6.1.4 Greeting

Select 'Menu>6.Settings>1.Display Settings>4.Greeting' and press the **[OK]** key.

You can set up the greeting message during startup or idle mode.

6.1.5. Brightness

This option allows you to adjust the brightness of the display screens to make them lighter or darker.

1. Select 'Menu>6.Settings>1.Display Settings>5.Brightness' and press the **[OK]** key.

2. Adjust the brightness by using the **[Left/Right]** key.

3. When you are satisfied, press the **[OK]** key to save the selection.

6.1.6. Contrast

This option allows you to adjust the contrast of the display screens.

1. Select 'Menu>6.Settings>1.Display Settings>6. Contrast' and press the **[OK]** key.
2. Adjust the contrast by using the **[Left/Right]** key.
3. When you are satisfied, press the **[OK]** key to save the selection.

6.1.7 Backlight

You can set up the Backlight.

Press the **[Left/Right]** key to change the value in 'Menu>6.Settings>1.Display Settings>5.Backlight,' and press the **[OK]** key.

6.2 Call Settings

Select 'Menu>6.Settings>2.call Settings'.

6.2.1 Call Divert

Select 'Menu>6.Settings>2.call Settings>1.Call Divert'.

You can divert the received call to another phone number with this menu.

You may choose one from All Calls, When Busy, On No Answer, or When Not Found, all of which have the same basic flow.

Ex) All Calls



- Activate: Selects Activate to convert all the services from the network such as Voice Calls, Data, Fax, and Messages. Input a number and press the [OK] key to transmit the setup value to the network.
- Deactivate: Deactivates Divert.
- Status: Displays the current setup status.
- By Service: If your network supports such functions, you may divert a specific type of call into another number. "All Services" can divert all the calls or select one from Voice Calls, Data, Fax, and Messages. Select "All except Messages" to divert all but Message Service.
- Cancel All: Cancels all diverts.

6.2.2 Answer Type

Select 'Menu>6.Settings>2.call Settings>2. Answer Type'.

You can set up the method of call receiving.

Use the [Left/Right] key to set the method of call receiving.

- Send key: Press the [] key to receive a call.
- Any Key: Other keys than the [] key put you through.
- Flip open: Open the phone flip to receive a call.
- Auto Receive: Automatically puts you through the previous call in a time after you receive it..

6.2.3 Auto Redial

Select 'Menu>6.Settings>2.Call Settings>3.Auto Redial'.

This is an Auto-redial function in case of call drop.

- On: Sets up Auto Redial.
- Off: Cancels Auto Redial.

6.2.4 Call Waiting

Select 'Menu>6.Settings>2.call Settings>4.Call Waiting'.

This is a function to inform you of a second call.

- Activate: Sets up Call Waiting.

- Deactivate: Cancels the preset Call Waiting.
- Status: Informs the setup condition.

6.2.5 Send Caller ID

Select 'Menu>6.Settings>2.Call Settings>5.Send Caller ID'.

You can see an incoming call number (with the caller's name if it is stored in Contacts) or let the caller see your number. This service is dependent on the network. Please ask the network provider.

- Show Caller No.(default): Shows the caller your number.
- Hide your No.: Hides your number to the caller.

6.2.6 Own Number

Select 'Menu>6.Settings>2.call Settings>6. Own Number'.

The number of Own Number varies on SIM up to 4.

6.3 Language

Select 'Menu>6.Settings>3.Language'.

You can select a language to be displayed on the phone.

Note: Automatic selects the language stored in your SIM.

6.4 Favorite

Select 'Menu>6.Settings>4.Favorite'.

The Favorite menu designates your favorites additionally.

You can gain an access to the menus down to 2 depth and Media Gallery is inerasable because it is a default.

The **[OK]** key means ADD with no item or Go to with an item.

Of the set values in Favorite, the Application Lock items ask a password before Go to.

Of the set values in Favorite, the item with a security asks a password before Go to.

6.5 Time & Date

Select 'Menu>6.Settings>5.Time & Date'.

You can set up Time, Date, and Date Format.

6.6. Network Selection

Select 'Menu>6.Settings>7.Network Selection'.

It is available to select to Automatic and Manual.

6.7 Security Settings

Set 'Menu>6.Settings>8.Security Settings'..

You shall input the password first. If you fail to input a right PIN1 and PIN2 number 3 times, you will be asked of the PUK number. The Security function keeps your phone and SIM Card away from the unauthorized hands and you may set up a password for your phone or make the Call Barring service and Fixed Dialing mode.

SIM Lock: Press the **[Left/Right]** key for setup.

- Lock:** You shall input PIN1 to gain an access to the main menu after power on.
- Unlock:** You are not necessary to input PIN1 to gain an access to the main menu after power on.

Change PIN: Changes the PIN number.

Phone Lock: Once selected, this option locks your phone until you input a right password. Press the **[OK]** key after you input the password. If you want to lock your phone again, select "Unlock"

followed by "Lock".

Change Lock: Changes a password.


Application Lock: Input a password, make an application at your choice, and press the **[OK]** key to lock the application.

Call Barring: Limits a specific call.

- International Call:** Limits an outgoing and incoming international Call.
- Only Local/Home:** Limits Only Local/Home calls
- Incoming Calls:** Limits all incoming calls.
- Incoming Calls When Abroad:** Limits all international incoming calls.
- Int. Calls Except to home Country:** Limits other international Calls except Home Country.
- Clear All:** Cancels all the barring settings.
- Change Password:** Replaces the old password with new one.

CUG(Closed User Group): Sets up a group of numbers that you want to dial or receive. Select CUG name and press the **[OK]** key to see the CUG name list as you input.

- Add:** Lists up a new CUG name in the Index list.
- Edit:** Edits CUG Identifier.
- Delete:** Deletes the preset CUG Identifier.

Note: Without existing record, the [] key would turn into [Add] and move to the name input screen for a new CUG registration.

FDN(Fixed Dialing Numbers): FDN is a service that limits your access to the specific numbers in the Phonebook list recorded in SIM. Input PIN2 to set up or cancel this service.(up to 3 times) (On, Off)

- Number List: Displays the numbers recorded in the FDN list.

Change PIN2: Changes PIN2.

6.8 System Reset

Select Menu>6.Settings>0.System Reset.

Delete all settings and user's data from your phone and initialize it as if it were just shipped out of the factory.

Input the phone password and press the **[OK]** key for reset.

Default Password is **1234**.

7. Organiser

Select 'Menu>7.Organiser'.

This function includes alarm setting, main event record, memo, world time, calculator, unit conversion, stopwatch and timer.

7.1 Alarm

Select 'Menu>7.Organiser>1.Alarm'.

You can set alarm to sound at up to 5 specific times.


(Upon setup of On Morning Call, an icon appears.)

7.1.1 To set an alarm

Select 'Menu>7.Organiser>1.Alarm' to display the current alarm list.

Select an alarm to set and press the [OK] key.



Press the [] key and select [New] in the list to set a new alarm with the edit alarm screen.

- **Clear:** Deletes an Alarm from the list.
- **Clear All:** Deletes all Alarms in the list.
- **On Morning Call / Off Morning Call:** Alarms always rings


regardless of the ring type, vibration or whatever. Setup or cancellation is applicable to MON~FRI / MON~SAT only.

- **On Snooze / Off Snooze:** The alarm that is set to Snooze rings every 5 minutes for 3 times. Only one alarm can be set to On Snooze.
- **New:** Creates a new alarm.

Press the [Left/Right] key in the '4. Edit Alarm' screen to set up Set, Time, or Melody.

Press the [AM] / [PM] / [24H] key to select AM or PM or 24H of the time for setup.



In case of Melody type, press the [] key to enter Sound Gallery to select a melody.

7.2 Calendar

Select 'Menu>7.Organiser>2.Calendar'.

It helps to manage your schedule including your time for call or special day. Alarm service on a set date is also included in this function. Calendar consists of Monthly View, Daily View, and Event View & Edit.


To view a calendar;

1. Monthly View

Consulting the Calendar

To	Press the
Move to another day	[Left] Previous Day [Right] Next Day
Move to another week	[Up] Previous Week [Down] Next Week
Move to the previous or next month	[1] Previous Month [3] Next Month

Select '7.Organiser>2.Calendar' from the menu to display the Monthly View.

Press the Option soft key [] to;

- **Go to Date:** Moves to the set date.
- **Go to Today:** Moves to today for selection.
- **View All Events:** Shows all of your scheduled events
- **Del Past Events:** Deletes your past scheduled events.
- **Del All Events:** Deletes all of your scheduled events.
- **Memory Info:** Displays the number of stored event, not more than 50.
- **New:** Raises the New Event window to add a new event.

Use the **[Navigation]** key to select a date and press the **[OK]** key.


On a date with any schedule registered, move to Daily View to check the schedule.

On a date with no schedule registered, add a new schedule.

Any event registered on a date will be displayed at the bottom of LCD in a form of icon.

2. Daily View

Shows the list of schedule registered on a date. Select a schedule and press the **[OK]** key to view or edit the details of an event.

Press the Option soft key [] to;

- **Delete:** Deletes an event
- **Move Date:** Transfers an event to a specific date.
- **Delete All:** Deletes all events.
- **On D-Day / Off D-Day:** Sets up or cancels D-Day.

New: Adds a new event.

Note: When you select D-Day from Screen Control, 'D-Date, Event Memo Content Part' will appear in the standby screen. Upon setup of a new D-Day, the existing D-Day is automatically deleted.

Event View & Edit

Show the registered schedule item by item and edit the schedule or create a new schedule.

(Press the **[Left/Right]** key to move between items)

Create New Event (by View & Edit)

- Select a day from Monthly View and press the **[New]** key



- Upon appearance of the View & Edit screen, select and input an event item by item for registration.


- After input, press the **[OK]** key to save the event.

Note: Maximum Quantity of Schedule for Registration: 50
Maximum Daily Quantity of Schedule for Registration: 7
Period of Registration: 01/01/2000 ~01/01/2010

7.3 Memo

Select 'Menu>7.Organiser>3.Memo'.

Saves short notes in your phone.

Press the Option soft key [] to;


■ **Edit:** Retrieve existing memos, edit the part at your choice,

and press the **[OK]** key for save.


* Tip: Press the **[OK]** key and **[Edit]** soft key to return to the editing screen.

- **Delete/Delete All:** Deletes any or all items.
- **New Memo:** Input texts to create a new memo

7.4 World Time

Press the Option soft key [] to;

■ **On/ Off Day Light Saving:** The Day Light Saving function fits the time of the countries in summer who enforce Summer Time. Select Day Light Saving from the option menu for setup. The icon for the country with Summer Time will be activated

 Displays the Summer Time Saving function is on.

* Tip: Summer Time sets the clock one hour fast.

■ **Set as Local:** Press the **[set]** soft key or select 'Set as Local' from the option menu and Target Area will be replaced with Home Area.

7.5 Calculator

Select 'Menu>7.Organiser>5.Calculator'.

Your phone has a Calculator function. Calculator provides 4 basic operations like +, -, x, and /.

Press number keys and direction keys to input a formula and press [=] to display the result.

* **Tip:** Press the [.] key to input a decimal point.

Press the [C] key to reset the formula.

Press the [C] key short to delete a text of the formula and press the [C] key long to delete the whole formula.

7.6 Converter

Select 'Menu>7.Organiser>6.Converter'.

Converter converts a figure between different unit in Length, Area, Volume, Weight, and Temperature.

Select one among Length, Area, Volume, Weight, or Temperature.

Press the [Down] key to move to the next line, press the [Left/Right] key to select a target unit, and press number keys to input numbers.

Press the [Down] key again to move to the next line and select a result unit and you will get a right answer.

* **Tip:** The result is automatically recalculated upon change of unit or value.



Press the [.] key to input a decimal point.

7.7 Stop Watch

Select Menu>7.Organiser>7.Stop Watch.

Stop Watch measures the time for all sorts of sports. Stop Watch shall be accompanied by the [Navigation] key.

Press  to operate Stop Watch.

Press  to pause Stop Watch and press  to re-operate Stop Watch.

Whenever you select [Lap], the 4 lap times as a maximum are displayed and when you select the fourth [Lap], Stop Watch stops.




Press the Reset soft key [] to initialize all.

7.8 Timer



Select Menu>7.Organiser>8.Timer.

Sets alarm bell to ring at a preset time.



Press the Set soft key [] to input a time and minute for countdown and press the [OK] key for setup.

Press  after input and the displayed time will be counted down.

Now, press  to pause countdown and press  to restart countdown.

After the preset time, an additional animation and alarm sound will be provided. Press the **[Set]** key to pause both.

Press the **[Set]** key to return to the initial state while Timer is out of operation. When the alarm is ringing with animation at the set time, stop their motion to return to the initial state.

IV. Advanced

1. WAP

2. SIM Toolkit

1. WAP

You can surf on Internet with WAP(Wireless Application Protocol) browser.

That means you can connect to Internet anywhere, anytime.

The descriptions below can vary according to your Network provider.

Therefore, ask your Network provider for detailed information.

Note: Press short the [OK] key to access to WAP menu directly. Press the [OK] key long during idle to proceed to WAP Homepage.

1.1 Navigating the WAP Browser

To scroll through and select browser items, Press the [Up/Down] key until the item you want highlight, and then press the [Select].

To return to the previous page, press the [C] key.

To return to the startup homepage, select [Option]> Home.

1.2 Entering Text in the WAP Browser

When you are prompted to enter text, the current text input mode appears above the right soft key.

Refer to the 'Entering Text' for details.

1.3 Home

This menu contacts the network to load the Wireless Web service provider homepage


1.4 Resume

You can reconnect the latest web site.

1.5 Bookmark

You can bookmark Internet address using the WAP browser just as you do with a PC Internet browser.

To register URL and Name in the closest empty number of Bookmark List, press [Add] on the right.

Press the Option soft key [] to;

- **Edit:** Edits the URL and name of a bookmark
But, this is not available, if a default bookmark is provided by the manufacturer.
- **Delete:** Deletes a bookmark from List.

But, this is not available, if a default bookmark is provided by the manufacturer.


- **Send Message:** a bookmark URL automatically composes the text of a SMS message.
- **Go:** Goes to related site

1.6 Push Message

Mobile can receive Push Messages from Service Provider.

1.6.1 Inbox

The Push message is stored in Inbox. Select and check a message from the message list of Inbox to contact the WAP page concerned..

Press the Option soft key [] to:

- **Delete:** Deletes a message.
- **Delete All:** Deletes all the messages in Inbox.
- **Go to:** Goes to related site.

1.6.2 Receive

Sets up Push Message receiving.

- Accept All: Receives all Push messages
- Trusted Only: Chooses out reliable message only.
- Accept None: Rejects all messages.

1.7 Go to URL

This menu leads you to a URL as you input.

1.8 Profiles

Selects or edits a Connection Profile supplied by the phone.

Select a Profile List and press the **[OK]** key for setup.

Unedited Profile will not be selected.

Select a Profile List and press **[Edit]** to edit the Profile.

Profile Name: Sets Profile Name

Home URL: Sets access Homepage URL to access

GSM Setting: Sets up GSM network proxy.

- Gateway(IP address, IP Port, Login ID, Password)
- Data Call Type: ISDN / Analogue
- Dial Number
- Login ID
- Password

GPRS Setting: Sets up GPRS network proxy.

- Gateway(IP address, IP Port, Login ID, Password)
- APN: enters the Access Point Name
- Login ID
- Password

Bearer: The bearer type to be used for each type of network accesses can be selected.

- GPRS only / GSM only

Reset Profile: Resets the selected profile.

1.9 Cache

1.9.1 Cache mode: Sets up the Cache memory check.

- Always Check: The Cache is always checked whenever URL is loaded or URL is navigated.
- Never Check: The Cache is never checked.

1.9.2 Clear Cache: This menu provides the function to clean the data stored in the Cache (recently visited WAP pages).

1.10 Version

This function is to view the software version of the WAP browser

2 SIM Toolkit

This menu depends on SIM and the network services.

Appendix

Access Code

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Access Code

Explanations for the different security codes that may be needed:

PIN code (4 to 8 digits)

The PIN (Personal Identification Number) code protects your SIM card against unauthorized use. The PIN code is usually supplied with the SIM card. After three consecutive incorrect PIN code entries, the PIN code is blocked. If the PIN code is blocked, you need to unblock the PIN code before you can use the SIM card again. See the information about the PUK code.

PIN2 code (4 to 8 digits)

The PIN2 code, supplied with some SIM cards, is required to access some functions, such as call cost counters.

Lock code (4 digits)

The lock code can be used to lock the phone and keypad to avoid unauthorized use.

Note: The factory setting for the lock code is **1234**. To avoid unauthorized use of your phone, change the lock code. Keep the new code secret and in a safe place separate from your phone.

PUK and PUK2 codes (8 digits)

The PUK (Personal Unblocking Key) code is required to change a

blocked PIN code. The PUK2 code is required to change a blocked PIN2 code. If the codes are not supplied with the SIM card, contact the operator whose SIM card is in your phone for the codes.

You can change the following codes: lock code, PIN code, and PIN2 code. These codes can only include the numbers from 0 to 9.

Note: Avoid using access codes similar to the emergency numbers, such as 112, to prevent accidental dialing of the emergency number.

Call Barring Password (4 digits)

The call barring password is required when you use the Call Barring function. You obtain the password from your service provider when you subscribe to this function.

You can change this password using the **Call barring** menu option. For further details, see page ???.

Check List

If you experience problems while using your cell phone, please refer to the following checklist. If the problem persists, contact your dealer or nearest service centre.

When the “Insert SIM Card” message appears:

Make sure the SIM card is correctly installed. Check to see if the SIM card is working properly. If it does not work, try cleaning the contact point of the card. If it is out of order, take it to the nearest service centre.

When the “Handset locked enter password” message appears:

Enter the handset password. If you cannot remember the password, contact the nearest service centre.

When the “Enter PIN1” message appears:

Input PIN1. If you cannot remember it, contact the nearest service centre. You can still receive calls even if your cell phone becomes locked by entering the incorrect PIN1 on three consecutive attempts.

When the “No service” or “Network failure” message appears:

Check the SSI (Signal Strength Indicator) state. If you cannot make a connection in underground areas or in buildings where signal strength may be low, try moving to another place. If you still cannot

make a connection, contact the nearest service centre.

When audio quality is poor:

End the phone call and try again.

When the other party cannot hear you speaking:

Your cell phone may be set to MUTE. Disable the MUTE function.

When battery lifetime is shorter than usual:

This may happen when you are in an area with low signal strength. Turn off your cell phone when it is not in use. Change the battery when battery energy is exhausted.

When your cell phone does not turn on:

Make sure your battery is charged. Check to see if your phone works while recharging the battery.

When you are unable to send a message:

Either you are not registered to receive SMS service, or you may be in an area where your network service provider cannot provide such service.

When you are unable to make a call:

Your phone may be set to “fixed dial.” Cancel the “fixed dial” function.

When you are unable to charge the battery:

This may be the result of one of the following three cases.

1. Your charger may be out of order. Contact your nearest dealer.
2. You may be attempting to use the phone in overly hot/cold temperature. Try changing the charging environment.
3. Your battery may have not been connected to the charger properly. Check the connector.

When you are unable to input data into the Phone Book:

Your Phone Book memory may be full. Try deleting some entries from your Phone Book.

When you are unable to select a certain function:

You may not be subscribed to that function, or your network service provider may be in an area where such service cannot be provided. Contact your local service provider.

All about performance and safety

All about performance and safety

The following list shows how to maintain your cell phone along with precautions.

- Keep your cell phone and its accessories out of the reach of children.
- Maintain your cell phone in dry condition and keep it under normal temperature. Temperatures higher than 55 C (131 F) or lower than -20 C (-4 F) may damage your phone.
- Do not use or store your cell phone in dusty, dirty areas.
- Do not attempt to disassemble your cell phone.
- Do not drop or cause severe impact to the phone.
- Do not use chemical products, cleaning solvents or detergents to clean your cell phone.
- If your cell phone does not work properly, contact your dealer immediately.
- Use only authorized batteries, battery chargers and accessories. Any malfunction or damage caused by the use of unauthorized batteries, battery chargers and accessories will void the limited product warranty.
- Ensure that the grounding points of the battery and battery charger are not in direct contact with conductive objects.

Glossary

To help you understand the main technical terms and abbreviations used in this booklet and take full advantage of the features of your mobile phone, here are a few definitions.

Call Barring

Ability to restrict outgoing and incoming calls.

Call Diverting

Ability to reroute calls to another number.

Call Holding

Ability to put one call on standby while answering or making another call; you can then switch between the two calls, as required.

Call Waiting

Ability to inform users that they have an incoming call when engaged on another call.

CLI (Caller Line Identification) Services

Services allowing subscribers to view or block the telephone numbers of callers.

EMS (Enhanced Message Service)

Network service sending and receiving messages that include images,

sounds and animations to and from another user without having to speak to the correspondent.

GPRS (General Packet Radio Service)

New non-voice value-added service that allows information to be sent and received across a mobile telephone network. GPRS guarantees continuous connection to the Internet for mobile phone and computer users. It is based on the Global System for Mobile Communication (GSM) circuit-switched cellular phone connections and the Short Message Service (SMS).

GSM (Global System for Mobile Communication)

International standard for cellular communication, guaranteeing compatibility between the various network operators. GSM covers most European countries and many other parts of the world.

Multiparty Calling

Ability to establish a conference call involving up to five additional parties.

PIN (Personal Identification Number)

Security code that protects the phone/SIM against unauthorized use. The PIN is supplied by the service provider with the SIM card. It may be a four to eight-digit number and can be changed, as required.

PUK (PIN Unblocking Key)

Security code used to unlock the phone when an incorrect PIN has been entered three times in succession. The eight-digit number is supplied by the service provider with the SIM card.

Roaming

Use of your phone when you are outside your home area (when traveling for example).

SIM (Subscriber Identification Module)

Card containing a chip with all the information required to operate the phone (network and memory information, as well as the subscriber's personal data).

The SIM card fits into a small slot on the back of the phone and is protected by the battery.

SMS (Short Message Service)

Network service sending and receiving messages to and from another subscriber without having to speak to the correspondent. The message created or received can be displayed, received, edited or sent.

Soft Keys

Two keys marked and on the phone, the purpose of which:

- varies according to the function that you are currently using
- is indicated on the bottom line of the display just above the corresponding key

Voice Mail

Computerized answering service that automatically answers your calls when you are not available, plays a greeting (optionally in your own voice) and records a message.

Guarantee



Memo

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifications not expressly approved by Pantech Co Ltd could void the user's authority to operate the equipment.

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

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

This device contains 1800 MHz GSM functions that are not operational in U.S. Territories. This filing is only applicable for 850 /1900 MHz PCS operations.

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

RF exposure FCC:

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 operation 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. (Body-worn measurements may differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

For body worn operation, to maintain compliance with FCC RF exposure guidelines, use only accessories that contain no metallic components and provide a separation distance of 15mm (0.6 inches) to the body. Use of other accessories may violate FCC RF exposure guidelines and should be avoided.

Health and Safety Information FCC:

Exposure to Radio Frequency (RF) Signals

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 the safety standards previously set by both U.S. and international standards bodies:

This EUT has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE Std. C95.1-1992 and had been tested in accordance with the measurement procedures specified in FCC/OET Bulletin 65 Supplement C (2001) and IEEE Std. 1528-2003 December 2003).

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*.

* In the U.S. 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.