CHARACTERISTIC SPECIFICATION

Display

Dual clamshell TFT LCD both Main&Sub.

Main LCD : 65,000 TFT Color Display (128x160)
Sub LCD : B&W Display(96x48)

Melody

32 Polyphonic Ringtone

Dimension & Weight

85x41x22mm with Standard Battery
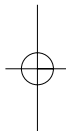85g with Standard Battery

Performance

Talk time: up to 180minutes (with 680 mAh Battery)
Standby time:up to 150hours (with 680 mAh Battery)

Operating Frequency

GSM 900MHz / DCS 1800MHz Dual Band

Some of the contents in this User Manual may not exactly
explain your phone.
It may differ depending on the S/W version and the Network
provider you subscribed to.

Please check and follow simple guidelines below for your safety and proper operation of the phone.

ANTENNA

Using unapproved antenna can cause severe damage or malfunction to the phone.

TRAFFIC SAFETY

Firstly, check and make sure you are aware of the traffic regulations related to the wireless phone use. Don't use a hand-held phone while driving a vehicle. If you want to use the phone while driving, please install a car kit.

ELECTRONIC DEVICES

RF(Radio Frequency) signals may affect improperly installed or inadequately shielded electronic devices.

HANDS-FREE KITS

Do not install the hands-free kits in the area over the air bag, in the air bag deployment area, or in the area where serious injury could result.

MEDICAL DEVICES

Switch the phone off in hospitals.
Follow any regulations or rules of the hospital.
Switch the phone off to avoid interference with pacemaker, or even other medical devices.
Consult a physician or the manufacturer of the medical device if you have any questions about using the phone in hospital.

PUBLIC PLACE

Do not turn on the phone in the area where wireless phone use is prohibited.

BOARDING AN AIRCRAFT

Switch off your phone before boarding an aircraft.
The use of wireless telephones in an aircraft may be dangerous to the operation of the aircraft.

EXPLOSIVE ATMOSPHERES

Switch off your phone in any area with a potentially explosive atmosphere and obey all signs and instructions. Do not separate battery from the phone in a potentially explosive atmosphere.

USER GUIDE

If the phone does not work properly, take it to the nearest
qualified service facility.
Always use only approved accessories and batteries.
Do not connect incompatible devices.
RF(Radio Frequency) from the phone can affect to the human
body, so avoid prolonged exposure to RF.
Remember to make backup copies of important data,
such as phonebook, etc.

EXPOSURE TO RADIO WAVES

Your mobile phone is a radio transmitter and receiver.
It is designed and manufactured not to exceed the limits of
exposure to RF energy recommended by independent
scientific organizations through evaluation of scientific
studies.
Use only batteries, chargers and accessories approved by the
authorized manufacturer. The use of unauthorized items can
not guarantee the permitted guidelines, and also can not
ensure the safety of all persons, regardless of age and health.

PROPER USAGE

Use the phone only in its normal operating positions.
Don't touch or bend the antenna unnecessarily while you are calling.
It may degrade the call quality and eventually limit the battery's
performance.
Do not attempt to disassemble the phone. Non-expert handling may
cause damages Use only the supplied or approved batteries, chargers
and accessories with this phone model. The use of any unauthorized i
tems may invalidate the warranty.

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MEMO

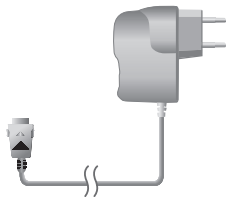The package items may differ from the ones shown below.
The items depend on the service provider's specification, and the
picture below is for user reference only.

Handset
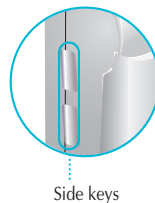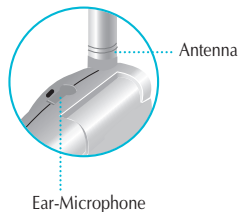

Batteries (Standard & extended)

Travel Adaptor

User manual

Ear-Microphone

Earpiece

LCD display

Function keys

Alphanumeric keys

Microphone

Charging Connector /
Cable Connector

Sub display

Antenna

Ear-Microphone

Side keys

There are two LCD displays (Main and Sub). The line at the top of the display is for icons showing the status of the mobile phone.

Main LCD Display

Icons are displayed when specific functions are active or when you have received a message. The figure above shows the list of all possible icons and threir position.

Screen Status, display and function

For the description of each icons, please refer to the table below.

Icon	Name	Description
📶	Signal strength	This icon shows the radio signal strength. The more bars displayed, the stronger the signal.
📳	Vibration	This icon will appear when ring type is "Vibration" and in Etiquette mode .
🔔	Alarm	This icon will indicate alarm set.
Ⓡ	Roaming	This icon will appear when roaming service is applied.
🔋	Battery	This indicates the remaining power of the battery.
🎧	Ear-microphone	This icon will appear when your phone is connected to ear-microphone
🔒	Telephone lock	This icon will appear when you press and hold the [✱] key.
Ⓜ	MMS full	This icon will appear when your MMS box is full.
Ⓜ	MMS	This icon will appear when unread MMS exists in your phone.
✉	Message	This icon will appear when unread message exists in your phone.
☎	In use	This icon indicates call active state.
✖	No calls	This icon will appear while you're connecting WAP CSD.
📞	Divert calls	This icon will appear when you divert calls.
🎵	Ringing tone	This icon will appear when ring type is "Ringing tone".
🎵	Vib+Melody	This icon will appear when ring type is "Vib+Melody".
🅖	GPRS	This icon will appear when you insert SIM card and when your phone is in service area.
🅖	WAP GPRS	This icon will appear when your phone is connected to WAP GPRS.
⚓	WAP security	This icon will appear overlapped with 'WAP GPRS' icon when you connect 'WAP GPRS security'. This icon will appear overlapped with 'In use' icon when you connect 'WAP CSD'.

Icon	Name	Description
📨	Voice mail	This icon will appear when you receive voice mail.
📳	Etiquette mode	This icon will be appear when you press and hold the [✱] key.

FUNCTION KEYS

There are function keys, which have one or more features. Following table shows list of function keys.

Function keys

Key Icon	Name	Key Function
📞	SEND KEY	Press this key to make a call, or answer incoming call. Press this key once to retrieve the list of All Calls(recently dialed, received, and missed call numbers)
📵	END KEY	Press this key to end a call. Press this key to return to standby state. (Cancel, Exit). Press and hold this key to turn the phone on or off.
OK	OK KEY	Use this key to confirm the selected function or menu on the display.
MENU	MENU KEY	Press this key to enter menu. When pressed, the menu will be displayed on the screen.
CLR	CLEAR KEY	Press this key to delete a single letter and press and hold this key to clear a line. Press this key to return to the previous screen.
🔘	NAVIGATION KEYS with shortcut keys to WAP, Sound setting, Message and Phonebook	Press these keys to move the cursor up/down or left/right in menu or in list. During a call, press "up" key to see recently received call list and press "down" key to see missed call list. These keys may act as shortcut keys by which you can easily access Phonebook, Sound Setting, Messages and WAP browser.
🔘	SIDE UP and DOWN KEYS	Press these keys to adjust the phone speaker volume during a call When in sleep mode with the phone closed, press one of these keys(or camera key) to activate the sub-LCD display.

Follow the steps below for the first time use;
Install the SIM card
When you subscribe to a cellular network, you are provided
with a plug-in SIM card loaded with your subscription details
(PIN, optional services available and so on).

1. If necessary, switch off the phone by holding down [🔲]
   key until the powering down message is displayed.
2. Make sure the battery is removed.
3. Clear the SIM slot, and place the SIM card into slot in the
   direction of the arrow.
4. If you want to remove the SIM card, push it in the opposite
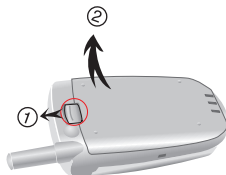   direction of the arrow.

Install the battery

(1) Insert the bottom of battery into the groove at the
bottom of the handset.
Then (2) press in the top of the battery until it snaps.
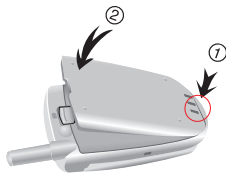
Removing the battery

Push the tab (1)with one hand and lift the top of the
battery (2)to separate.

> **Note!!**
> The battery must be correctly placed in the battery compartment.
> If battery is incorrectly inserted, the handset will not turn on or the
> battery may slip out during use.

Your phone is powered by a rechargeable Li-ion battery.
A travel adapter is provided with your phone. Use only
approved batteries and chargers. Ask your local PANTECH
dealer for further details.
The phone can be used while the battery is charging
To Charge, make sure the battery is in position on the phone.
Plug the charging connector into the slot at the bottom side of
the phone, and plug the adaptor to a standard AC wall outlet.
When charging is finished, disconnect the adapter by pressing
the gray tabs at the side of the connector and pulling against
the slot. Also, disconnect the adaptor from the AC wall outlet.
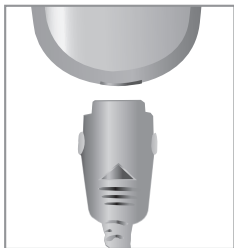
GETTING STARTED

- Turn on/off the phone power
- Make a call
- End a call
- Answer a call
- Adjust the earpiece volume
- Browse main menu
- Type numbers and letters on handset

Turn on the phone power

Press and hold the [🔋] key for 3 seconds to turn the
phone power on.
(Do the same to turn off the power)

If the handset is in the lock mode, enter your 4 digit secret number.
(Initially, "0000" for SIM lock code, "1234" for handset lock code.)

Make sure the phone power is on.
Insert SIM card into the SIM slot if "Insert SIM card"
message is shown.
Enter your PIN1 (Maximum up to 8 digits) to unlock
handset (if applicable)
After the PIN is accepted, network search will start
automatically. When you press the wrong number, press
[CLR] key to delete. (Press and hold to delete all)
In the idle mode, dial the phone number with area code.
Then press [📞] key to make a call. When you'd like to
make an international call, press and hold [± 0] key
until '+' sign appears. Then dial national code, area code and
telephone number those you like. With long press [⭐ #]
key, you can add 'P' pause symbol. If the number you
want to call has an extension number, use this key between
the main number and the ext. number to call directly to the
extension.
!! Emergency call is available even without the SIM card. Dial
112 and press [📞] to make an emergency call.

END A CALL

Press [ ] key to end or cancel a call

ANSWER A CALL

When the phone rings or vibrates, the screen will display the name or the number of the caller (If the network you subscribe to supports this).
The displayed name is dependent on the data in the Phone book.
Press [ ] key to answer a call in normal answering mode option. With the Any Key option, you could answer a call by pressing any key except [ ] key.

ADJUST THE EARPIECE VOLUME

When you are speaking with your phone, press the volume adjustment keys on the side of the phone to adjust earpiece volume. Seven levels of volume are available for your selection.

BROWSE MAIN MENU

Press [ ] key to enter main menu in standby mode.
Press [ ] key to exit menu to standby screen.
With navigation keys, [ ][ ] and [ ][ ], you can browse among menu items.
To make a decision or answer the question, press [ ] key as YES, or [ ] key as NO.

To enter number, press the number keypad, as you want.
To enter letters into handset, you can either be in 'T9' mode or in Multi-tab mode (e.g. Phone book, Message).
Please refer to 'T9' on appendix page Letters can be erased by pressing [CLR] key.

BASIC CALL FUNCTIONS

- Speed Dialing

- Make an international call

- Missed call message

- Phonebook shortcut

- Last number dialed (received, missed)

- Incoming call waiting

- During call options

- How to use T9

SPEED DIALING

You can retrieve and call the desired number by pressing and holding the number of the phonebook in which you saved the number to call. For instance, if the number is saved in the Phonebook numbe 5, press and hold [AL5] key to make a call.

MAKE AN INTERNATIONAL CALL

Firstly, press and hold [±0] key until "+" shows up on the display or enter the outgoing national code. Then enter the number you want to call.

MISSED CALL MESSAGE

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, first press [OK] key, then press [ ] [ ] key to select the number you want to reply to and press [ ] key to dial it.

PHONEBOOK SHORTCUT

Under standby mode, you can press the [ ] key to enter the Phone book and browse the sub menu entries.

LAST NUMBER DIALED/RECEIVED/MISSED

Press [ ] key to access the list of latest dialed/received/missed numbers.
Press [ ][ ] Key to scroll through the last dialed numbers.
Press [ ] key to send the call if the number shown is correct.

INCOMING CALL WAITING

When a call comes in, you can press [ ] keys to enter the call options.

1. Answer
2. Reject
3. I am busy

If another call comes in while you are on the phone, you can:
Press [ ] key to reject the incoming call.
Press [ ] key to hold on the active call and connect to the incoming call.

When you are on a telephone call, you can
press [🔲] keys to enter the call options.

🔲

1. Phonebook
2. Messages
3. Volume
4. Hold
5. End current
6. Mute on
7. DTMF on/off
8. Multi-party

Each function is described as follows in detail.

Phonebook: You can look through the phonebook.
Message: You can read and write SMS/EMS and check Voicemail.
Volume : You can adjust the phone speaker volume.
Hold - This function allows you to put a currently active call
       on hold, so that you can initiate a new call.
End current - You can end a current call by
              selecting this function.
Mute - When you want no sound to be heard by your caller
       during a call, you can choose the Mute function to
       o so.
DTMF on/off - This function allows you to turn DTMF tone
              on/off.
Multi-party – You can communicate with 3 to 7 telephones
              simultaneously.

If DTMF(Dual Tone Multi Frequency) is turned off, the
recipient will not hear the key sounds while you're pressing
the keys.
In order to use "Multi-party", activate the "Call waiting " function
earlier.

Key	T9 Number	T9 English	Multitap
1	1	Next candidate	.,:;/-_@&?…!…'"
ABC 2	2	ABC	ABC
DEF 3	3	DEF	DEF
GHI 4	4	GHI	GHI
JKL 5	5	JKL	JKL
MNO 6	6	MNO	MNO
PQRS 7	7	PQRS	PQRS
TUV 8	8	TUV	TUV
WXYZ 9	9	WXYZ	WXYZ
⁎			
LONG press		T9Number	T9Number
0	0	(Space)	(Space)
LONG press	(SPACE)	(SPACE)	(SPACE)
#		Shift-CapsLOCK	Shift-CapsLOCK
LONG press		Symbols	Symbols

T9 English

The more types you enter,the more complete word you can get using T9 English editor.

[MENU] [1] [1] [1] [MENU] [OK]

For example

If you like to make the word 'English', then press the keys, [DEF 3] for E, [MNO 6] for n, [GH 4] for g, [JKL 5] for l, [GH 4] for i, [PQRS 7] for s, [GH 4] for h.

If you could not find the word what you want, just press [1] key for next possible candidates.

You can switch the lowercase to the capital letter or the capital letter to one capital letter mode by pressing [* #] key.

Also you can insert period by pressing key [* *].

Blank space can be added by pressing [0].

You can shift input mode by pressing [icon] or [icon] arrow keys. Alternately, you can switch to T9 number mode by long pressing [* *] key and to T9 Symbol mode by long pressing [* #] key.

```
[pencil] ABC  SMS 1
English|
```

Multi-tap English

In this mode, you can insert special English word something like name, nickname, abbreviations and so on. T9 English has special dictionary to find and to list candidates up.

As like ordinary mobile phone, you can input alphabets by pressing a key several times 'til finding the character. By pressing key [* #] you can easily shift to Capitalized letter to lowercase to T9 number easily.

```
[pencil] ABC  SMS 1
ADGJMPTW|
```

Menu functions

MENU TYPE

There are three ways to access the menu. One is the main menu by pressing [MENU] key, second is the shortcut menu by pressing [icon] key.

- Messages
- Call logs
- Sound
- Settings
- Net Services
- Organizer
- Fun &Tools
- STK
- Phonebook
- Hot folder

You can send new messages, and check received messages.

SMS/EMS

In EMS(Enhanced Messaging Service) messages you can add pictures, animation, melodies, emoticons to a text message.

Entering the SMS/EMS menu

to enter the SMS/ EMS menu and arrive at the following options.

Each option is described below;

Create - Used To create a new SMS/EMS
message. to be sent
Inbox - Displays SMS/EMS messages
Outbox - Displays messages
waiting to be sent
Archive - SMS/EMS messages
stored in the phone memory
Settings - There are 3 sub-options;

SMS/EMS
1 Create
2 Inbox
3 Outbox
4 Archive
5 Settings
6 Used space

Each option is described as follows in detail.

Message center - Allows the address
(URL) of the proxy
relay or MMSC to be
set.

Settings
1 Message center
2 Message lifetime
3 Message format

Message lifetime - Controls the lifetime
of created messages
(1 hour - 6 months)

Message format - (normal, fax, voicemail, ermes, nation' l
paging, x.400, internet)

Used space - State of SIM records (Capacity, Used records,
Unread records)

Popup menu

When you read the message in the "Inbox" or "Outbox", you can Edit, Delete, Forward, Reply or make a Voice Call by pressing [🖵] key.

Each option is described below;

Edit - To edit incoming/outgoing messages.
Delete - To delete the message.
Forward - To forward the message to the desired number.
Text Reply - To reply the message.
Voice call - To make a call to the originated number.

● Create
Inserting an item in a text message

1 Scroll to "Create" and press [ok] key.

2 While writing your message press [MENU] key.

3 Select "Insert items" and press [ok] key.

4 Now, You can select "Picture", "Animation", "Melody", "Message" or "Emoticon" as you want.

5 And then select from "Predefined" or "Load".

6 Select an item by using [⊙] key and then press [ok]

There are two options in inserting an item.
Predefined - you can load predefined items in the phone.
(Except Picture and Message)
Load - load form File view or Media box
(Access to File system)

Sending a text message

1 Scroll to "Create" and press [ok] key.

2 Write your message and press [ok] key.

3 Scroll to "Send" and Press [ok] key.

4 Enter the number of the recipient. You can also for the number from the "phonebook list" by pressing [MENU] key.
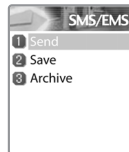
Saving message

To save a text message (in the SIM)

1. After writing the message press [OK] key.

2. Select "Save" and press [OK] key.

To save in Archive (in the File system in the phone memory)

1. After writing your message press [OK] key.

2. Select "Archive" and press [OK] key.

3. Select "Save" and press [OK] key.

Receiving a message

When you received a text message, the user will be alerted to the arrival of a message by a bell sound as set by the user (no sound in case the user has selected that option) and the message received icon would be visible on the Idle screen.

To read the text message

Messages are saved in "Inbox" in the Message menu. Press [OK] to read the text message.

To add the number of the message sender to the phonebook

Enter "Inbox" and scroll to the message whose phone number's not registered to the phonebook. Press [MENU] to select "Add to P-book".

Saving incoming text message

Incoming text messages are saved in the SIM card. When the SIM card is full, you cannot receive messages any more.In this case, a special icon is displayed alerting that the SIM card is full.
Messages can be then received only by deleting one or more messages in the Inbox or by moving one or more messages to "Archive". To move messages from Inbox to Archive:
  - Enter "Inbox" and select the message that needs to be moved.
  - Press [OK] to enter the message.
  - Press [MENU] and select the "Edit" function.
  - Press [OK] and select "Archive".
  - Press [OK] to save message.

To save objects from a text message

If a message text contains embedded components (such as picture, animation, melody, message or Emoticon), you can save them to your phone memory.
While you are reading a message, and when you put the cursor on the object, you can select it with [MENU] key and save to the phone (File system).
The objects, which you saved through the process above, can be loaded from the menu, which is <Load>menu from "insert item//Picture/Animation/melody/Message/Emoticon/Predefined/Load".

MMS

Creating and Sending a message

A new message is created when accessing the "Create" menu.
The user is presented with a screen showing the first page in
a blank MMS message.

The screen displays the page with an informational/status bar above the
message showing:
The presence of any sounds or attachments on the current page.
The size of the whole MMS in bytes or kilobytes.
The current page number/total number of pages.

SMS/EMS	
❶ Create	
❷ Inbox	0/0
❸ Outbox	0/0
❹ Drafts	0/0
❺ Sent	0/0
❻ Archive	0/0
❼ Templates	0/0

● **Creating multimedia message**

1 In Messages menu, select multimedia message
->"Create" and press [OK] key to select item.

2 Enter text of message what you wants.
For example, "Hello world". You can add some
objects of multimedia message in any order.

● To add an image, press [MENU] key and select Add
picture ->Load. Select a picture file (*.jpg) with the
cursor keys.

● To add a sound, press [MENU] key and select Add
sound ->Load.

● To add a new page, press [MENU] key and select
Add page. Then new page will be shown.

If you select Add image, sound, or attachment, a list
of items opens. Scroll to the item you wish to add
and press [OK] key. Then, the icon is shown in
the top of the screen.

3 To add a text, Press [MENU] key and select More
->Object properties -> select text files(*.txt)to add
and press [OK] key.

Then, you can see Object Property menu. Now, let's
control for how long the current page is shown when
read. Select "Displayed after" and press [OK] key.
And scroll 4 seconds.

4) To add a new text press [MENU] key and select Add page then enter text you want to write. In this example, "The end".

5) Press [MENU] key and select Preview for correction. At the end of correction, press [CLR] -> [MENU] key and select Done.

6) In the shown Address option menu, move down to the "To:" line and press [OK] key with the "Add address" line selected.

7) When done entering phone number Press [OK] key.

8) Select "Subject" line with [OK] key and write your subject.

9) And select the Send orSend later line and press [OK] key.

● **Receiving messages**

When the user receives a notification of new message's arrival the following actions will take place:

1) In Messages menu, select multimedia message ->Inbox and press [OK] key to select item.

2) Select received mail and press [OK] key.

● **Deleting a message**

Here a user deletes a message from the mailbox.

1) In Messages menu,select multimedia message ->any mailbox

2) Scroll to the mail you want to delete and press [MENU] key and select "Delete".
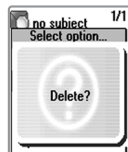
Voicemail

With this function, you can call the Voice mailbox provided by your network service provider to listen to your Voice mail messages. You can use this function by selecting Call and then the phone will automatically dial the designated number for your Voice mailbox.

Each option is described as follows in detail below;

Call - The Phone makes a call to pre-defined voice mailbox system to get voicemail.
On - The Phone makes a call to set voice mail on
Off - The Phone makes a call to set voice mail off
Settings
  Box numbers - setting the Home Mbox/Roam Mbox/Voice no/
                       Message no/Disable no/Enable no
  Alert by call
  Alert by SMS
  Alert match - When the voicemail comes, it alerts
                      with a specific icon
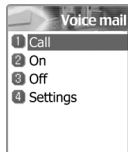
Cell broadcasts

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

Each option is described below;

Settings - You can choose preferred topics
                     and languages you wish.
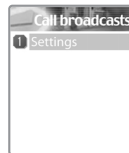
Language : You can specify the language of info message.
               Addition of new language and elimination of
               existing language are possible.
Set info : You can specify the topic number of info message.
               Contact network service provider for further information.

- Create subject :You can add a new list other than 'Current list'.
- Current list :It shows the list, which is stored. It contains new lists.
               You can select a "Current list"(maximum
               two)to receive info message.

Received calls

With this function, you can view call logs and set Call Info & GPRS info.

[MENU] [ABC 2] [1]

1) This function displays the list of phone numbers received.
To make a call chose by chose the number by scrolling the [ ] key, press [ ] key to connect.

Call logs
1 Received calls
2 Dialed calls
3 Missed calls
4 Clear logs
5 Call info
6 GPRS info

Press the Menu Key to:

-Edit : Edits number before dialing
-View Call logs : Displays call information including time & date of when the call was made
-Add to P-book : To store number in the phone book, select this key and enter caller details.
-Send SMS : To send an SMS to the caller, select this key.

Dialed calls

[MENU] [ABC 2] [ABC 2]
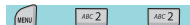
1) This function displays the list of phone number dialed. To make a call chose the number by scrolling the [ ] key, press [ ] key to connect.
With [MENU] key, you'll see the same Pop-up menu as in Received calls.

Call logs
1 Received calls
2 Dialed calls
3 Missed calls
4 Clear logs
5 Call info
6 GPRS info

Missed calls

[MENU] [ABC 2] [DEF 3]
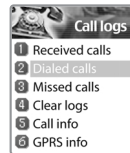
This function displays the list of calls you've missed. To make a call chose the number by scrolling the [⊙] key, press [↘] key to connect.
With [MENU] key, you'll see the same Pop-up menu.

Call logs
1 Received calls
2 Dialed calls
3 Missed calls
4 Clear logs
5 Call info
6 GPRS info

Clear logs

[MENU] [ABC 2] [GHI 4]
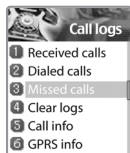
This function is to delete the previously received, dialed, missed call numbers.
The following are the sub-options.

-Received calls
-Dialed calls
-Missed calls
-All calls

Call logs
1 Received calls
2 Dialed calls
3 Missed calls
4 Clear logs
5 Call info
6 GPRS info

Call logs
1 Received calls
2 Dialled calls
3 Missed calls
4 All calls
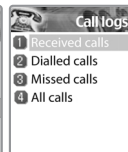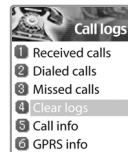
Call Info

This menu gives information on the duration and cost of a call.

[MENU] [ABC 2] [JKL 5]

Call logs
1 Received calls
2 Dialed calls
3 Missed calls
4 Clear logs
5 Call info
6 GPRS info
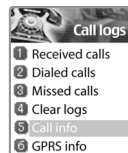
● Call costs

This function records the information of the call cost.
The maximum cost of a call can be set to avoid overcharge.

Last call
This function displays the cost of the last call with units.

All calls
This function displays the cost of all calls with units.
/****You can also clear logs with PIN2 authorization.****/

Clear logs
This function clears all logs of call cost related after you enter PIN1.

Cost units
You can read defined unit or set the unit cost of the call in your
service area. This function has following sub-options to select.
 - Read units : Displays the unit Cost of a call.
 - Set units :You can set price/Unit and currency of Cost unit.

Max cost
You can set the maximum value of call cost in specified unit
 /*****with PIN2 authorization.****/
This function has following sub-options to select.
 - Read limit : Displays the maximum call cost limit set.
 - Set limit : Sets the maximum value of a call after specifying PIN2
         authorization.
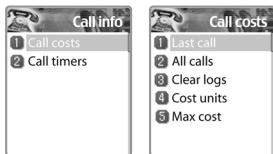
● Call timers

This function records the call duration.

Last call
This function displays the duration of the last call.

All calls
This function displays the total duration for all calls.

Reset call time
Resets the call timer to "00:00"

GPRS Info

This menu shows you the amount of the data you've sent/received by using GPRS
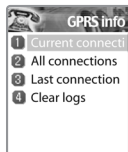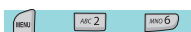
● Current connection

This shows you the total kbyte spent and received in the current connection.

GPRS info
1 Current connecti
2 All connections
3 Last connection
4 Clear logs

● All connections

This function displays the total kbyte sent and received for all the GPRS connections made.

GPRS info

All connections

Sent	0000KB
Receive	0000KB
Total	0000KB
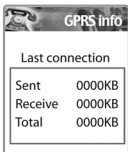
● Last connection

This function displays the kbyte sent and received in the last connection.

GPRS info

Last connection

Sent	0000KB
Receive	0000KB
Total	0000KB

● Clear logs

This function is to clear the data related to GPRS.

Clear logs
1 Yes
2 No

Sets tones for ringing, message, keytone, flip opening, and etc.

Ringing Settings

1 Use [🎛] keys to move across categories.
   Press [OK] to save settings.

   - Move to categories :
     [🔼][🔽]

   - Selecting categories :
     [◀][▶]

Sound
1 Ringing settins
2 Message alert
3 Key tone
4 Flip open tone
5 Sound effect
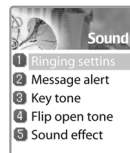
● Ring Type

Ringing tone : Select this to get a ringing tone on receipt of a call.
Vibration : Vibration; just vibration without sound.
Vib then Ring : ring after vibration.
Vib and Ring : ring and vibration come together.
Ascending : ring gets louder and louder.
None(Quiet) : no ring, no vibration. Only backlight glows.

Ringing settings
Ring type
Ringing tone
Melody type
Melody
Melody 1
Ringing volume
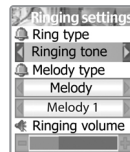
● **Melody Type**

The ringing tones are categorised into:
Melody, Bell sound, Voice sound, Natural sound,
My melody(download of personal ringtones)
Under each type, a variety of ringtones are available.

● **Ringing volume**

You can adjust the volume with [🔘] keys across
8 different levels.

● **Message alert**

[MENU]   [DEF 3]   [ABC 2]

1   You can choose and save the bell sound you like for
    alerting on receipt of a message.

- Move to category :
[🔘][🔘]

- Select categories :
[🔘][🔘]

Sound
1 Ringing settins
2 Message alert
3 Key tone
4 Flip open tone
5 Sound effect
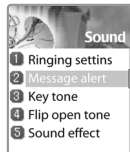
● **Select mode**

You can choose the message alert from 4 options;
Once/Every 2 mins/Every 5 mins/Off.

● **Tones**

You can select the alerting tone 3 options;
Bell 1/Bell 2/Bell 3.

● **Volume**

8 different levels of volume can be set.

Message alert
Select mode
◀ Once ▶
Tones
Bell 1
Volume

Key Tone

[MENU] [DEF 3] [DEF 3]

1   You can choose and save the keypad tone you like.

- Move to category :
[🔼][🔽]
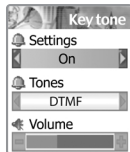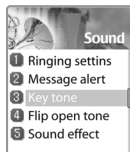
- Select categories :
[◀][▶]

- **Setting**

  On/Off

- **Tones**

  DTMF / Voice / Bell / Beep

- **Volume**

  You can set the volume in 8 different grades.

Flip open tone

[MENU] [DEF 3] [GHI 4]

1   You can set up the Flip open sound you like.

- Move to category :
[🔼][🔽]

- Select categories :
[◀][▶]
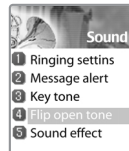
- **Setting**

  On/Off

- **Tones**

  Bell 1/Bell 2/Bell 3
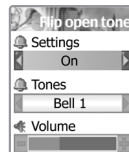
- **Volume**

  8 different levels of volume can be set.

Sound effect

1 Helps set the sound for:

Connection/Minute minder/Disconnection/Area alerting
/On&Off melody/Menu moving

Use [ ][ ] keys to select the
requirement.
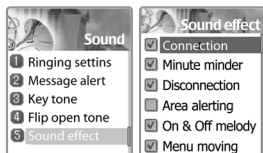
In this menu, you can tune the phone settings such as Display, Date&Time,
Language etc.

Display

● **Visual settings**

Screen setting

To change the screen image, move to the screen you want by
using [ ][ ] key, move the cursor to the image
change line by using [ ][ ] key, and choose an
image by using again [ ][ ] key for the screen.
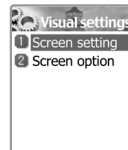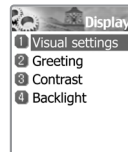
You can change each screen image
as shown below.

Screen option

1. You can choose display options for the handset idle screen.
   There are three option as shown below.

   -Move to category : [🔼][🔽]
   -Select categories : [◀][▶]

   > Screen option : You can change the display image of
   > idle screen.
   > Display string : You can change the text to be displayed in
   > idle screen.
   > Font color : You can change the font color in handset.
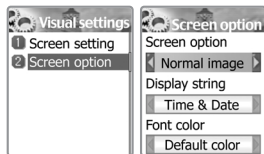
<Screen option>
You can choose one of 4 images to be displayed by using
[◀][▶] key.
Normal image : Display the image set in Screen setting.
Analog clock : Display the analog clock screen.
Calendar : Display the calendar screen.
User define image : Display the image downloaded from the
   internet.
   You can set the user define image in
   Fun&Tool\download\set as wallpaper.

<Display string>
You can change the type of text displayed on the idle screen by using
[◀][▶] key.
Time&Date : Display Time & Date, and you can change the time format
   in setting\date&time\display.
Greeting : Display the greeting message you make. You can write the
   Greeting message in setting\display\greeting.
D-day : Display the D-Day message. You can put the D-day message in
   organizer\ scheduler.

<Font color>
You can change the color of all the text in the handset.
There are Red, Blue, Green, and Dark gray including Default color.

● **Greeting**

You can write a greeting message.
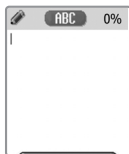
● **Contrast**

You can set Main LCD Brightness, Main LCD contrast, Sub LCD contrast.
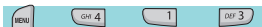
1. Use Navigation [ ][ ] Keys to move up and down to the mode you want to change and then use Navigation [ ][ ] keys to change the value. Each has 8 levels.

● **Backlight**

You can set the Light Level of Main Sub LCD.

1. Use Navigation [ ][ ] Keys to move up and down to the mode you want to change and then use Navigation [ ][ ] keys to change the value.

1. Light level(Off, Low, Medium, High, Maximum)
   A. You can set the brightness of LED Back light while it is on.
2. Minimal bright(Off, Low, Medium, High, Maximum)
   A. You can set the brightness of the LED Back light while it is off after the Light Duration is expired.
   (This value cannot be higher than the value of Light Level).
3. Light duration
   A. The duration of the LED Backlight when the phone is left idle.
   (Always off, On for 5 secs, On for 10 secs, On for 20 secs, Always on)

Date&Time

[MENU] [GHI 4] [ABC 2]

Settings
1. Display
2. Date & Time
3. Language
4. Reset settings
5. Information
6. Voice LED

● **Set time**

[MENU] [GHI 4] [ABC 2] [1]
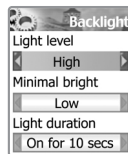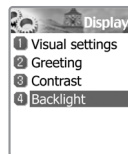
Press [OK] key after you input the time you wish to set

Date & Time
1. Set time
2. Set date
3. Set time zone
4. Display

Set time
● Set time
  14 : 22
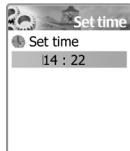
● **Set date**

Setting up the present date

[MENU] [GHI 4] [ABC 2] [ABC 2]

Press [OK] key when you move the cursor to the date you wish to set

Date & Time
1. Set time
2. Set date
3. Set time zone
4. Display

Set date
📅 22/01/2003

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

🕐 12 20

● **Set time zone**

Showing the world wide time differences with present time.

[MENU] [GHI 4] [ABC 2] [DEF 3]

Press [OK] key when you choose the time zone you want.

Set time zone
Moscow   -5:0

03/07/15 14:33

● **Display**

[MENU] [GHI 4] [ABC 2] [GHI 4]
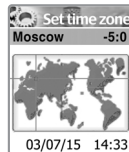
Set the time format as 12 hour or 24 hour.
Set the date format as D:M:Y,M:D:Y,or Y:M:D.
Choose the display as Time only, Date only, or Date & Time.

Press [OK] key and storeto save preferred options.

Display
Time format
◄ 24 hour ►
Date format
   D:M:Y
Display
   Time only
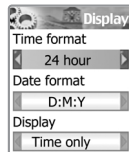
Language

Select the language to be displayed.

[MENU] [GHI 4] [DEF 3]

Choose one from the lists, and press [OK] key.

<Information>
When choosing Automatic, it choosess the Language Preference stored in your SIM.

Reset settings

Restore the default values for the settings.

[MENU] [GHI 4] [GHI 4]

Input the handset password, and press [OK] key when the 'Restore factory setting?' pop up shows, the default values are restored into, and then the phone reboots.

Security

Enter lock code

Security

Restore factory settings?

Information

[MENU] [GHI 4] [JKL 5]

Settings
1 Display
2 Date & Time
3 Language
4 Reset settings
5 Information
6 Voice LED

● Own number

You can input, edit, store, and delete your own phone number.

[MENU] [GHI 4] [JKL 5] [1]

If there is no number stored, "List empty" message appears. Press [OK] to edit & add your own number.

With the number(s) listed, press [MENU] key and select a menu you want.

Information
1 Own number
2 Software version

1. Edit : modify and edit the number.
2. Add : add new number.
3. Delete : delete the number.

<Information>
You can input up to 2 own numbers.

Own number

List empty
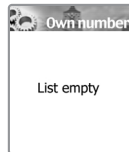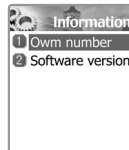
● Software version

To check the software version, press [OK]
and the software version is displayed

MENU   GHI 4   JKL 5   ABC 2

Software version

GHARO111132003
TITAN Ver. 0.01s

Voice LED

MENU   GHI 4   MNO 6

Voice LED
1 On
2 Off
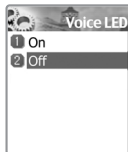
Auto power alarm

If the phone is off with this function on, it automatically turns on to
ring at the saved time.

MENU   GHI 4   PQRS 7

Auto power alarm
1 On
2 Off

Some of the functions in this section are network dependant. Therefore, please
check with your network provider whether they support these services.

Divert calls

Divert calls - With this option, you can forward your incoming calls any
designated number.

MENU   JKL 5   1

Divert calls
1 All calls
2 When busy
3 On no answer
4 When not found
5 Cancel all
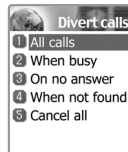
● All calls

Divert all calls - You can all of voice
calls, data, fax and messages
to another number.

MENU   JKL 5   1   1

On : Select ON to forward all the services provided by the network;
     voice calls, data, fax, and messages. If you select "On", you should
     enter a number to which you wish to direct. After entering the
     number, you should enter a waiting time just before directing a call
     and press [OK] to send the configuration to the network.
Off : Select OFF to cancel "Divert All Calls".
Status : STATUS shows the current configuration, ON or OFF.
By service : You can use your handset to divert a specific type of call to
     another number if your network supports this feature.
     "All services" [1] enables all calls to divert and you
     can choose one of the services, "Voice calls"[ABC 2],
     "Data" [DEF 3], "Fax"[GHI 4] or "Messages"[JKL 5].
     choose "All except msgs"[MNO 6] to divert except the
     message.

All calls
1 On
2 Off
3 Status
4 By service

All calls
1 All services
2 Voice calls
3 Data
4 Fax
5 Messages
6 All except msgs

Divert calls
Divert to:

MENU: Search
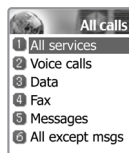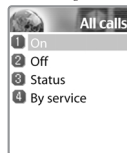
When busy

Calls are diverted when your handset is already connected to another call.

`MENU` `JKL 5` `1` `ABC 2`
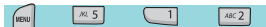
In case you want to divert call, the call waiting function needs to be setted earlier.

When busy
1. On
2. Off
3. Status
4. By service

When busy
1. All services
2. Voice calls
3. Data
4. Fax
5. Messages
6. All except msgs

Divert calls
Divert to:

MENU: Search
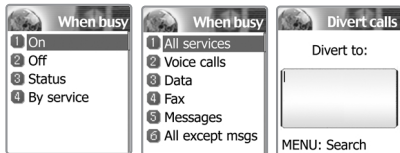
On no answer

This option allows you to divert the calls to a designated number when the phone is not answered within a certain time; time can be set from 5 to 30 seconds.

`MENU` `JKL 5` `1` `DEF 3`

On no answer
1. On
2. Off
3. Status
4. By service

On no answer
1. All services
2. Voice calls
3. Data
4. Fax
5. Messages
6. All except msgs

Divert calls
Divert to:

MENU: Search

When not found

Divert the calls when your handset is out side the network coverage area.

`MENU` `JKL 5` `1` `GHI 4`

When not found
1. On
2. Off
3. Status
4. By service

When not found
1. All services
2. Voice calls
3. Data
4. Fax
5. Messages
6. All except msgs

Divert calls
Divert to:

MENU: Search
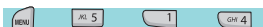
Cancel all

You can cancel all the diverts by using this option.

`MENU` `JKL 5` `1` `JKL 5`

Divert calls
1. All calls
2. When busy
3. On no answer
4. When not found
5. Cancel all
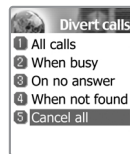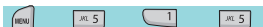
Call settings

This function sets the way in which a call is received/ made.

`[MENU]` `[JKL 5]` `[ABC 2]`

Answer type

This key specifies the answering mode when a call is received.

`[MENU]` `[JKL 5]` `[ABC 2]` `[1]`

Net services
1. Divert calls
2. Call settings
3. Network settings
4. Security settings

Flip open : Select "Flip open" to connect the incoming call when the phone is flipped open.
SEND key : The incoming call is connected when the [ ] key is pressed. press [ ] key.
Any key : The incoming call is connected when any key except [ ] key is pressed.
Auto answer : The incoming call is automatically connected after 10 seconds

Call settings
1. Answer type
2. Call waiting
3. Caller number
4. Automatic redeal

Answer type
1. Flip open
2. SEND key
3. Any key
4. Auto answer
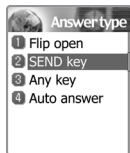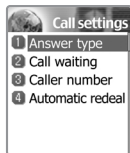
Call waiting

Your handset can alert you when you've got a second call while you are already engaged in a call.

`[MENU]` `[JKL 5]` `[ABC 2]` `[ABC 2]`

Call waiting
1. On
2. Off
3. Status
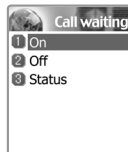
Caller number

You can see the number of the incoming call (You can see the name of the caller if it's saved in the phonebook) or you can show your number to the caller when making a call.
This service is network dependent so please ask your Network Provider.

`[MENU]` `[JKL 5]` `[ABC 2]` `[DEF 3]`

Show my no.: Select this option if you want to show your number to the recipient.
Show called no.: Select this option if you want to show your number to the recipient's diverted phone.
Hide if called : Select this option if you do not want to show your number to the recipient's diverted phone..

Caller number
1. Show my no.
2. Show called no.
3. Hide if called
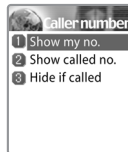
● **Automatic redial**

Try to redial automatically If the call is dropped when you're making a call, your handset tries to dial out repeatedly 2 or 4 times.
You can choose the number of trials.

[MENU] [JKL 5] [ABC 2] [GHI 4]

Automatic redial
1 Enable
2 Disable

Network settings

[MENU] [JKL 5] [DEF 3]

Network settings
1 Preferred N/W
2 Add new N/W
3 N/W selection
4 Change password
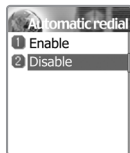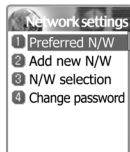
● **Preferred N/W**

With this function, you can set preferred list of network service providers.

[MENU] [JKL 5] [DEF 3] [1]
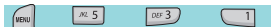
Press [MENU] key to see the following sub-options;

Preferred N/W
CMCC

Insert
Add to end
Delete

This function has following sub-options to select when you press [MENU]
Insert : add the network to the top of the preferred network list
Add to end : adds the network to the end of the preferred network list
Delete : delete the network name

● **Add new N/W**

You can make the list by entering network service provider code.

[MENU] [JKL 5] [DEF 3] [ABC 2]

Add new N/W
Add
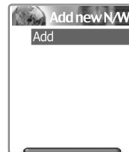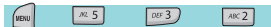
This function has following sub-options to select when you press [MENU]
Add : Enter the country code, network code, and network name as they are requested, and this can include new networks whose network codes are not known to the handset.
Change : Choose a network name to change and then enter the network code, country code, and ne twork name newly to change the network.
Delete : Delete the network name

● N/W selection

You can select the network you like or make a list of networks you like from the available networks.

`MENU` `JKL 5` `DEF 3` `DEF 3`
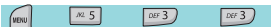
Automatic : A network can be selected automatically.
Manual : You can choose a specific network to subscribe.

N/W selection
1 Automatic
2 Manual
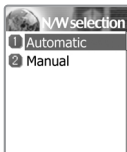
● Change password

The network password is available from your network service provider.
It is also used for setting Network Call Barring options and is not the same as your SIM card PIN1.

`MENU` `JKL 5` `DEF 3` `GHI 4`

Network settings
1 Preferred N/W
2 Add new N/W
3 N/W selection
4 Change password
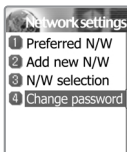
Security settings

First, you need to enter the password. The password is set "1234" when you buy the phone.
You must press the [OK]key after entering the password for getting the permission.
If you fail to enter the right password for more than three times, it will go back to the main menu.
The security function can help to prevent your phone and SIM card from being used by an unauthorized person.
With this function, you can set the password and settings relating to the phone.
This function customizes the call barring service, fixed dialing mode.

● SIM Lock

`MENU` `JKL 5` `GHI 4` PASSWORD `1`

Lock : When you turn on the handset, you need to enter the PIN1 password to access the main menu.
Unlock : When you turn on the handset, you don't need the PIN1 password to access the main menu.

Security
Enter lock code

Security settings
1 SIM lock
2 Handset lock
3 H/S barring
4 N/W barring
5 Fixed dialling
6 CUG setting

SIM lock
1 Lock
2 Unlock

● Handset lock

If you select this option, the phone will be locked until you enter the right password. To enter the password, press [OK] key.
(The password is set "1234" when you buy the phone).
If you want to lock again, select "unlock°" and then select "lock"

| MENU | JKL 5 | GHI 4 | PASSWORD | ABC 2 |

This function has following sub-options to select.

- Unlock
- Call only
- Lock
- Change code

Security settings
1. SIM lock
2. Handset lock
3. H/S barring
4. N/W barring
5. Fixed dialling
6. CUG setting

Handset lock
1. Unlock
2. Call only
3. Lock
4. Change code

Handset lock
1. Unlock
2. Call only
3. Lock
4. Change code

Security
Enter old code

Security
Enter new code

Security
Repeat code
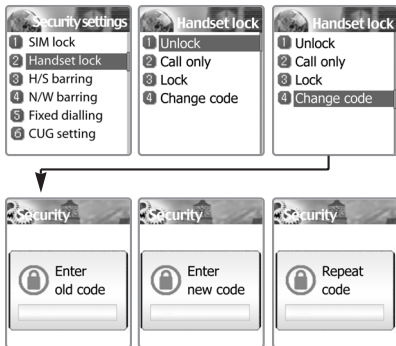
● H/S barring (Handset barring)

You can ignore the incoming calls or restrict certain outgoing calls with this menu.

| MENU | JKL 5 | GHI 4 | PASSWORD | DEF 3 |

Incoming : If you select "on" in this option, all incoming calls will be barred.

Outgoing : There are three sub-options in this menu.
1) Bar all: This will bar disable all outgoing calls
2) Bar prefixed: This will bar the outgoing numbers that includes the first number(s) you previously designated. For example, if you designate first two numbers as "82", then all numbers that starts with "82" will be barred.You can add, edit, delete and clear all numbers in the Pop-up menu by pressing [ ] key.
3) Off: This will make all outgoing calls available.

Security settings
1. SIM lock
2. Handset lock
3. H/S barring
4. N/W barring
5. Fixed dialling
6. CUG setting

H/S barring
1. Incoming
2. Outgoing

Incoming
1. On
2. Off

Outgoing
1. Bar all
2. Bar prefixed
3. Off
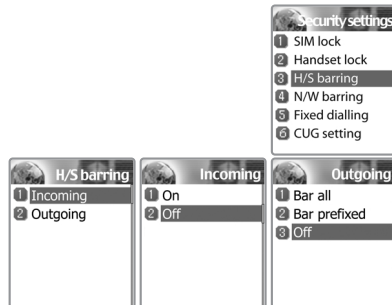
● N/W barring (Network)

This feature is dependent on network service provider and subscription. Some of the bars are set by the network service provider. You can set the call barring for all or for each service. It is possible to select a range of call barring options. At each range, you can see the status and set it On/Off. You need to enter network password when you change the setting. You can clear all settings of call barring.

MENU | ʌɴʟ 5 | ɢʜɪ 4 | PASSWORD | ɢʜɪ 4

Followings are the sub-options :
Foreign calls : to bar the outgoing international calls
Only local/home : to bar all calls except those on local and home
                   networks
Bar incoming : to bar all incoming call
Incoming abroad : to bar incoming calls from abroad
Outgoing calls : to bar all outgoing call

When you select one of the above menu,
1. The call list to be barred is displayed
2. You choose one item in the call list
3. Press [📞], and you can make the
   call
   -On : to be barred
   -Off : not to be barred.
   -Status : to see whether the call is barred or not

Security settings
1 SIM lock
2 Handset lock
3 H/S barring
4 N/W barring
5 Fixed dialling
6 CUG setting

Clear all : After selecting a call type,
            activate or deactivate service
            type of information as
            following.

- All services
- Voice calls
- Data
- Fax
- Messages
- All except msgs

N/W barring
1 Foreign calls
2 Only local/home
3 Bar incoming
4 Incoming abroad
5 Outgoing calls
6 Clear all

Foreign calls
1 All services
2 Voice calls
3 Data
4 Fax
5 Messages
6 All except msgs

N/W barring
1 Foreign calls
2 Only local/home
3 Bar incoming
4 Incoming abroad
5 Outgoing calls
6 Clear all

Security

Network
password

● Fixed dialing

MENU | ʌɴʟ 5 | ɢʜɪ 4 | PASSWORD | ʌɴʟ 5

Fixed dial

Enable : This option allows the user to only dial those
         numbers which match a set of "filters" stored in a
         list on the SIM
Disable : Select this option to disable the "Fixed dialing"
          [REF] The PIN2 pa ssword is required when you
          turn it on or turn it

Fixed dial list

Display the Fixed dial list

● CUG setting (Closed User Group settings)

| MENU | JKL 5 | GHI 4 | PASSWORD | MNO 6 |

You can set a group of numbers that you can only call and receive within them.

List CUGs

1. CUG name list specified by the user is displayed
2. Select the CUG name
3. Press [OK], and you can

- Add : add a new CUG name to the index list
- Edit : The user can associate their own text, rather than the default text,
    with each of the 10 CUG identifiers
- Delete : The pre-set CUG identifier is deleted.
- Clear all : Erases all the pre-set CUG identifiers and CUG names.

Select

1. CUG name list specified by the user is displayed
2. When the user selects a CUG from the menu, the corresponding
    CUG index will be sent when a call is set up

Security settings	**CUG setting**
① SIM lock	① List CUGs
② Handset lock	② Select
③ H/S barring	
④ N/W barring	
⑤ Fixed dialling	
⑥ CUG setting	
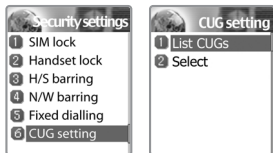
In Organizer, you can set alarms, keep track of events, make notes, use a simple calculator, convert measures, and check time events.

● Alarm

You can set alarms to ring for once, or on a daily or weekly basis.

| MENU | MNO 6 | 1 |

Organizer	**Alarm list**
① Alarm	List empty
② Scheduler	
③ Memo	
④ Calculator	
⑤ Converter	
⑥ Stopwatch	
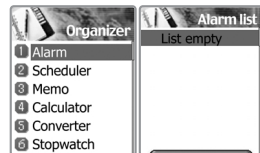
Adding & Deleting alarms

| MENU | OK |

Fill in the alarm time and scroll down once to decide On or Off.
At the next scroll bar, you can set this alarm to ring just once, or on a daily or weekly basis.

Alarm list
List empty
Add alarm
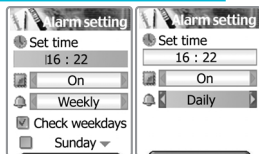
If you choose [Once], then it will ring just once on the given Alert Date and time. If you choose [Daily], then it will ring every day at the given time. If you choose [Weekly], then it will ring at the given time on the days you select. To select press Navigation key. You can select more than one day.

Selecting alarm melody, Press [MENU] key and select [Melody], from the popup menu that appears, select alarm melody.

From the options that appear [On MorningCall] option lets you hear the alarm even when your phone is in silent mode.

Up to 5 alarms can be added.

Add :
Add new alam.
Delete :
Delete selected alam.
Delete all :
Delete all alams.

Scheduler

You can keep track of your events by putting short notes and alarms on the calendar.
You will see a blue circle cursor on the calendar which you can move using the [ ] keys.

Adding & deleting Events

Move the blue circle cursor to the date you want to add an event.

Then press [MENU] key ->select [Add Event].
Or, just press [OK] key on a date and [MENU] key
->select [Add Event]
Add event : Add a new event.
View all events : View all the event that is saved
Goto date : Going to the specific date.
Memory info : Defining saved event's number

Add event
View all events
Goto date
Memory info

List empty

List empty

Add event
Memory info

The following screen appears.
Use navigation keys to scroll [ ] and [ ].
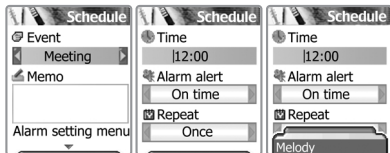
When a new event is set on a date, it is marked on the calendar with a green box. Press [MENU] to see the details of the events.

Event : You can choose the type of the event
   (Meeting, CALL, Restaurant, Entertainment, Birthday, Travel, Others)
Memo : Press [ ] to put a short note about the event and press [OK]
Time : Set the alarm time.
Alarm alert : You can set when the alarm will ring
      (On time, 1 hour before, 2 hours before, 1 day before, 2 days before, No alerting)
Repeat : You can set how often the event happens.
      (Once, Daily, Weekly, Monthly, and Yearly)
      Ex)For birthday, you would make it Yearly.
Press [MENU] to choose the melody for the alerting.
Now, everything's done. Just press [OK] to save the event.
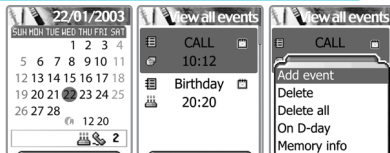
Press [MENU] key while viewing the details to see the followings;
1. Add Event : To add another event on the selected day.
2, 3. Delete & Delete All : Deletes one or all of the events registered on the selected day.
4. On D-day : Show you how many days are left until the event.
5. Memory Info : Shows the number of events registered.

To see all events put on the calendar
Press [MENU] key a select [View all events] Jumping to specific date
Press [MENU] key a select [Goto date]

Memo

You can keep short notes on your phone.

[MENU] [MNO 6] [DEF 3]

Press [MENU] then you will see the following sub menus.

1. Add memo : You can create a short note. After you are done with the writing, press [OK] key to save the note.
2. Delete : Delete the selected note.
3. Delete all : Deletes all notes.

You can edit notes by pressing [OK] key on the list view.
You can keep up to 20 notes.
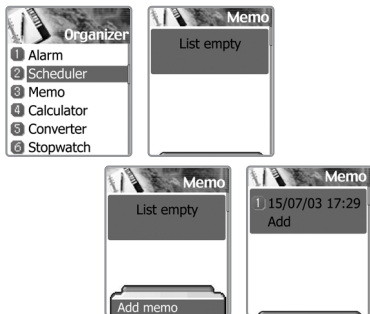
Calculator

Adding, subtracting, multiplying, and dividing of decimal numbers are supported.

[MENU] [MNO 6] [GHI 4]

You can use [⊡], [⊡*], [OK] and [#⊡] keys to manipulate the calculation.

Example : 6 X 5 / 2 + 2 =

[MNO 6] , [⊡] , [JKL 5] , [⊡] , [ABC 2], [⊡] , [ABC 2] , [OK]

Converter

In Converter, you can convert measures such as Length, Area, Volume and Weight from one unit to another.
Basically, 'Length' includes cm, m, inch, feet, yard and mile. 'Area' includes sq. m, a, sq. feet, sq. yard and acre. 'Volume' includes cu. cm, cu. m, L, cu. inch, cu. feet, cu. yard and gallon. 'Weight' includes g, kg, t, grain, oz and pound.

Select the measure among Length, Area, Volume and
Weight pressing navigation
[ ] key or [ ] key.

Select the target unit pressing navigation [ ] key or [ ] key after moving down using navigation [ ] key. Enter the target value pressing keypad and dot(.)using key [ ].

Select the result unit by pressing navigation
[ ] key or [ ] key.

Stopwatch

You can time an event using this stopwatch function. The stopwatch can be operated with the navigation key. Press Start to time an event, press Pause to pause timing and press Start to resume. Press Reset to clear the time and wait

This section describes the game embedded in your phone.

Game

● **DdanDdaRa**

Let's enjoy Music bits as like a Top DJ!!!

The music instrument icons drop down to the bottom of screen with mixing with music. When the falling icons are placed at the required position, you must catch the bit of music by pressing the appropriate key. If you exactly catch the bit of music, you can see 'Perfect' message and get bonus points during the continuous exact catching. In the case of partial catching, you can see 'Good' message and get default points. The status bar of the left in the screen is decreased when you get 'Miss' message. If the status bar runs out, the game will be over.

Basically, this game constructed with four menus [START, EASY, RANK, HELP]. You can select one of four menus using keypad or navigation key. With key [LEFT/4] and [RIGHT/6], you can change menu options. With Key [UP/2] and [DOWN/8], you can move up and down from the menu. The game-starting button is [OK/5].

The game player could make it to catch the bit of music by pressing [1] key to music disk, [GHI 4] key to keyboard, [PQRS 7] key to drum, [DEF 3] key to electric guitar, [MNO 6] key to trumpet, and [WXYZ 9] key to cymbals. You can make PAUSE state with [✱] key.

● **Smokey**

The objective of this game is to help the sorcerer boy push the monsters into the cages. You can't pull the monsters back so think carefully when you make a move. When you want to restart the current stage, press [JKL 5].

This game consists of 200 different stages in various difficulties. The buttons used for playing the game is described in the "Help" menu. (You can also move the sorcerer boy with the [▫] key)

Downloaded

You can view a list of downloaded images, animations and melodies and execute the basic file operation like browse, delete, rename, set as wallpaper, play, and view.

● **Image file browser**

MENU   PQRS 7   ABC 2   1

If you press [MENU] then you'll be given with several
options to select.
Select options you like with [OK] key.

View a list of image files

Download
1 Image
2 Animation
3 Melody
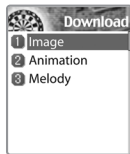
Browse image files using [⊙][⊙] key.

Image
bmpPic1.bmp
gifAnimPic1.gif
gifAnimPic2.gif
gifAnimPic3.gif

.../bmpPic1.b
View
Set as wallpaper
Info
Delete
Rename
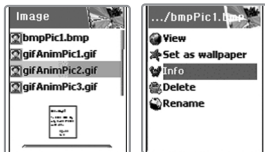
1)View : View the full screen image.
2)Set as wallpaper: Press [OK] key after saving to
                    wallpaper image. If you want to
                    display wallpaper image then go to
                    display visual option.
3)Info: View file information
4)Delete: Delete the image file.
5)Rename: Rename the file

● **Animation file browser**

MENU   PQRS 7   ABC 2   ABC 2

View a list of animation image files

Download
1 Image
2 Animation
3 Melody
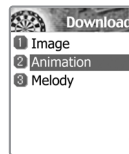
● **Melody file browser**

MENU   PQRS 7   ABC 2   DEF 3

View a list of melody files

Download
1 Image
2 Animation
3 Melody
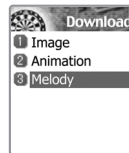
Voice record

You can record and play your voice or those of other people using this function.

[MENU] [PQRS 7] [DEF 3]

Press [MENU] key to bring up the Pop-up menu, which has following sub-options.

● Record

Scroll the [ ] key to choose
Record, Stop, Play, Save.
If you press the [SAVE] key after completing the voice recording, you can make a brief note with the text editor, and then see the recorded voice memo on the view list.

To play the memo, select the voice record by pressing [OK] key and press play.

Note!!
Max recordable time : 30 Seconds / 1 voice memo
Max recordable memo : 3 Voice memos

WAP

You can surf the Internet using the WAP browser.
The descriptions below can vary according to your Network provider.
Therefore, ask your Network provider for detailed information.

[MENU] [PQRS 7] [GHI 4]

● Home

[MENU] [PQRS 7] [GHI 4] [1]
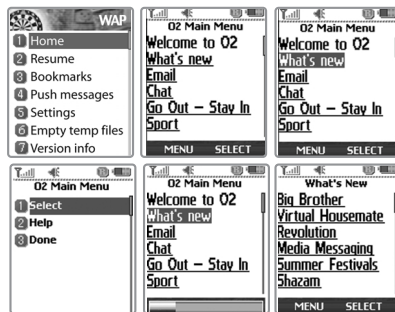
● Resume

Reconnects to the lat web site entered.

[MENU] [PQRS 7] [GHI 4] [ABC 2]

Bookmarks

You can bookmark Internet address using the WAP browser.

[MENU] [PQRS 7] [GHI 4] [DEF 3]

Push messages

Mobile can receive Push Messages from Service Provider.

[MENU] [PQRS 7] [GHI 4] [GHI 4]

Settings

Using this function, Connection settings, Security certification, Cache mode, and Push security can be set.

[MENU] [PQRS 7] [GHI 4] [JKL 5]

Connection

WAP
1. Home
2. Resume
3. Bookmarks
4. Push messages
5. Settings
6. Empty temp files
7. Version info

Settings
1. Connection
2. Security cert
3. Cache mode
4. Push security

Connection
- CelcomWAP GPRS
- Maxis GPRS
- TIMECEL
- DIGI
- Celcom MMS
- DIGI MMS

Connection
- CelcomWAP GPRS
- Maxis GPRS
  - Add profile
  - Edit
  - Change name
  - Delete profile

Connection
1. Homepage
2. Image settings
3. Connection type
4. Connect option
5. Gateway settings
6. Bearer
7. GPRS settings

Connection
1. Homepage
2. Image settings
3. Connection type
4. Connect option
5. Gateway settings
6. Bearer
7. GPRS settings

Image settings
1. Display images
2. Update images

Display images
- No
- Yes

Connection type
- Temporary
- Continuous

Connect options
- None
- Secure

Gateway settings
1. User ID
2. Password

Bearer
- Data Settings
- SMS settings
- GPRS settings

Bearer
1. IP address
2. Access point
3. User ID
4. Password

A. Homepage : Sets the homepage address
B. Image settings : Image display option can be chosen using this.
C. Connection type / options : Helps select connection-orientation/connection-less or with-security / without security

D. Gateway settings : To set the ID and password of Gateway
E. Bearer : The bearer type(F. Data settings/ G. SMS settings/ H. GPRS settings)
        can be selected
F. Data settings
  1. IP address : IP address of Gateway
  2. Dial number: Dial number
  3. DataCall Type : ISDN/ analogue
  4. Data Call Speed : 2400/4800/9600/14400 bps
  5. User ID
  6. Password
  7. Timeout : 30/60/90/120 msec
G. SMS settings
  1. Server number
  2. Service number
H. GPRS settings
  1. IP Address : Gateway IP address
  2. Access point : Access point name
  3. User ID
  4. Password

<u>Security cert</u>

These are the lists of Security Certification.
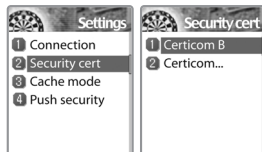
<u>Cache mode</u>

Two options(Always check/Never check) of Cache mode can be selected.
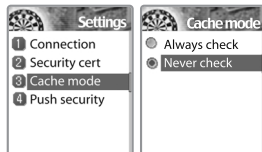
<u>Push security</u>

- Accept all : To accept all the messages the
        Network provider sends.
- Trusted only : To receive messages only from
        trusted sources.
- Accept none : To refuse all the pushed messages.
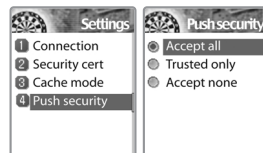
● **Empty temp files**
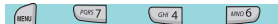
- Empty cathe : To delete the information related to
        the web-pages you previously visited.
- Empty cookies : To delete the Cookies stored in the
        phone memory.
- Empty password: To delete the saved password in
        the phone memory.
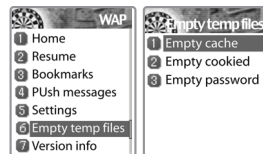
Version info

Provides information about view the software version of the WAP browser.

Press the [MENU] key while browsing to see the following sub-options.

Stop : stops current page download
Go back : navigates one page back in the history list
Bookmarks : presents the list of bookmarks
Add bookmark : creates a new bookmark for the page you are viewing.
Enter address : allows you to enter a URL to browse to
Home : takes you to the homepage of the current website.
Top : jumps you back to the top of the current page
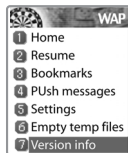
Memory info

This option shows the memory status.

This function is dependant on your Network provider, please ask them for more information.

Phone book menu allows you to set up your own phone book. You can add or delete the records anytime you want. In addition, you are able to save the records either in SIM card memory or phone memory. You can store up to 800 entries in the phone book.

Group search

You can search a person's number registered in each group.

Press [MENU] and select Edit
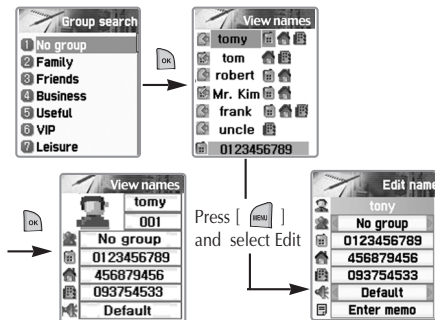
Name Search

You can search a person's number with the name saved in the phonebook.

Select each number with [⬅][➡]key.

Press [MENU]
and select Edit
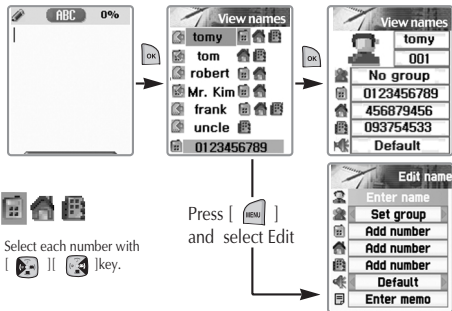
One person can have at most 3 numbers. Press
[⬅][➡] key to select the correct number.

When viewing the list of the phonebook, press [MENU]
to;
- Search (search a number in the list)
- Edit
- Delete (delete all numbers of the person)

Press [OK] key to view all the information about the person.
but can not modify the information. To modify the
information, press [MENU] Key and select Edit.

Add new name

Add new phone number in the Edit mode.
To edit the Name / PhoneNumber / Memo,
move to the item and press any key on the item. You
can select group / individual bell by pressing
[🔼] or [🔽] navigation key.

```
                    Edit name
👤    Enter name
🔲    Set group
🏢    Add number
🏠    Add number
🏢    Add number
🔔    Default
📄    Enter memo
```
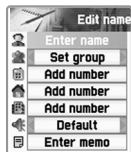
Speed dial list

Here you can see the whole list of the phone
numbers stored in the phonebook with their names
and given numbers.
If you want to speed dial a number in idle mode,
press and hold the number of the phonebook that
matches the person you want to call.

For example;
1) Single digit number(1~9) : Press and hold the
                              phonebook number.
2) Double digit number(including 00) : After pressing the
                              tenths, press and
                              hold the units of
                              the phonebook
                              number.

```
                    Speed dial
00    is empty
01 🏢  Grace 011949
02    is empty
03    is empty
04 🏢  kt card +0800
05    is empty
06    is empty
```
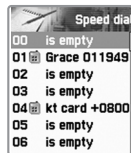
Settings

● **Save nos.to**

You can choose between the SIM card and Phone memory for the phone number to be saved. If you choose "Choice", you'll be asked where to save when you Add New Name to the phonebook.

Settings
① Save nos. to
② Used space
③ Group ring tones
④ Delete all

Settings
① SIM card
② Phone memory
③ Choice
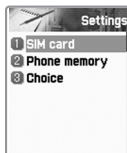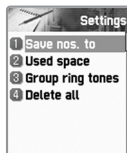
● **Used space**

Shows the memory currently used.
You can store up to 500 entries.

Settings
Used space
SIM   6/100
Handset   0/800

● **Group ring tones**

You can set a bell sound for each group with navigation key (, , ,)

Edit groups
Group select
No group
Melody select
Default

● **Delete all**

Select one of the following options with the Navigation key.

Delete SIM – Select "O", "X"
Delete phone – Select "O", "X"

To save, press [ok].

Security
Enter lock code

Settings
① Delete SIM
② Delete phone
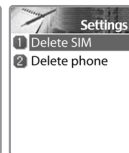
Appendix

- Care and Maintenance
- Troubleshooting
- Using the batteries
- Safety information
- Operating environment
- Electronic devices
- Emergency calls

CARE AND MAINTENANCE

Followings are to help ensure the proper use and the life of your mobile phone.

Keep your mobile phone and its accessories out of small children's reach.

Keep it dry. Use your phone at a normal temperature.
Temperature higher than 55 ° C or lower than 20°C (Higher than 131°
For lower than-4°F)may cause damage to your phone.
Do not use or store your mobile phone in dusty or dirty areas if possible.
Do not attempt to open your mobile phone.
Do not drop, knock or shake it.
Do not use harsh chemicals, cleaning solvents, or strong detergent to clean mobile phone.
If your mobile phone or its accessory is not work properly, contact your dealer immediately.
Use only approved batteries, battery chargers and accessories to help ensure the proper function of your phone and battery life. Any malfunction or damage caused by the use of any third-party accessories will void the limited product warranty.
Keep battery contacts and battery charging socket at the bottom of your phone from direct contact with conductive objects. Otherwise it could cause a short-circuit and result in potential damage or harm.

TROUBLESHOOTING

If you have any problem while using your phone, please refer to following check lists to solve problem.
If the problem persists, please contact your dealer immediately for services them.

"Insert SIM Card" message appears

Make sure that the SIM card is correctly installed.
Check SIM is working properly, it may be defected or out of order.
If so, send it to network service provider.
Or, clean the SIM card contact.

"Handset locked enter password" message appears

Enter the valid lock code.
If you don't know the valid lock code, contact dealer near you.

"Enter PIN1" appears

Enter the valid PIN1 code with the SIM card.
If you don't know the code, contact your dealer.
With handset locked with 3 invalid trials, incoming call could be received.

"No service", "Network failure" is displayed

Check the signal strength indicator. The network connection was lost. You may be in the basement or building where signal is weak. Move to other location to receive signal properly. In another case,you may be too far from the base station of your network service provider.
Then, ask your network service provider service range map.

Audio quality is poor. Echo, or noise makes it hard to hear

Hang up the phone and then dial again.
You may be switched to a better quality network line.

Correspondence cannot hear you speaking

Your mobile phone is set to enable MUTE function.
Make mobile phone to UNMUTE by pressing.

The standby time becomes short

You may be in weak signal area.
Turn it off temporarily while you are expecting no calls.
Or your mobile phone battery life may be over.
Then,get a new battery.

The phone is not turned on

Check the battery capacity or charge the battery.
You can turn your phone on to check during charging.

Unable to send message

You may have not subscribed to SMS service or network service provider in your area couldn't support service.

Unable to make a call

You mobile phone is set to fixed dial function.
Then, cancel fixed dial function.

Unable to charge the battery

It could be one of 3 possible situations:one is that your mobile phone charger is out of order. Then contact dealer near you.
Another is that you attempt to use your mobile phone in severe temperature. So,change the battery-charging environment.
The other is the poor connection. Then check the connector.

Unable to input data in the Phonebook

Your phonebook memory is full.
Delete some entries from phonebook list.

Unable to choose certain function

You are not subscribed in that service or in network service provider where not support that service.
Contact your service provider.

USING THE BATTERIES

Your mobile phone is equipped with Li-on battery.
The following batteries are also available (Contact dealer near you):
-Standard battery
-Slim battery

Precautions when using batteries
Do not use any charger and battery that is damaged in anyway.
Use the battery only for its intended purpose.
If you use the phone near the near the network's base station, it uses less power; talk and standby time will increase as strong as signal strength.
Battery charging time depends on the remaining battery charge and type of battery and charger used.
Battery lifetime is about hundreds times in charging and discharging, but it will gradually wear out. Use only approved battery and recharges your battery only with approved chargers.
When a charger is not in use, disconnect it from the power outlet.
Overcharging makes battery lifetime shortened.
Do not leave the battery in hot or cold places, such as in a car in summer or winter. This reduces the capacity of battery.
Always try to keep the battery at room temperature.
Do not short-circuit the battery. Accidental short-circuiting can occur when a conductive object contacts both contact directly.
Short-circuiting terminals may damage the battery.
Dispose of used batteries in accordance with local regulation.
Always recycle. Never dispose of batteries in fire.
Don't use other than the specified battery charger.
To prevent injury or burns, don't allow metal objects to contact or short
circuit the battery terminals.
Don't discard the Battery Pack into to fire.

SAFETY INFORMATION

Road Safety

Remember, road safety always comes first.
Do not use a hand-held telephone while driving a vehicle.
If using a hand-held phone, park the vehicle before conversing.
Always secure the phone in its holder;do not place the phone on the passenger seat or where it can break loose in a collision or sudden stop.
The use of an alert device to operate a vehicle's lights or horn on public road is not permitted.

OPERATING ENVIRONMENT

Remember to follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions.

With other mobile radio transmitting equipment, users are advised use mobile phone in the normal operating position for the satisfactory operation of the equipment and for the personnel (Held to your ear with the antenna pointing over your shoulder)

ELECTRONIC DEVICES

Most modern electronic equipment is shie lded from radio frequency (RF)signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.
Operation of any radio-transmitting equipment may interfere with inadequately protected medical devices.
Consult a doctor or the manufacturer of the medical device if you have any questions. Other electronic equipment may also be subject to interference.
Always switch off the phone when at a refueling point (service station).
You are reminded of the need to observe restrictions on the use of radio equipment in fuel depot (Fuel storage and distribution areas), chemical plants or where blasting operations are in progress.
Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
Switch off your mobile phone when in an aircraft. The use of mobile phones in an aircraft is illegal and may be dangerous to the operation of the aircraft or disrupt the cellular network.
Failure to observe this instruction may lead to the suspension or denial of cellular telephone services to the offender, legal action or both.

EMERGENCY CALLS

IMPORTANT!

This phone, like any wireless phone, operates using radio signals, wireless and landline network as well as user-programmed functions, which cannot guarantee connection in all condition. Therefore, you should never rely solely upon any wireless phone for essential communications (e.g.medical emergencies).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate cellular signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use.
Check with local cellular service providers:
To make an emergency call:
If your phone is not on, Switch it on.You should be in a service area,so check the radio signal strength.
Emergency calls may not be possible on all cellular phone networks or when certain network services and/or phone features are in use.
Check local cellular service provider.