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For Your Safety

For your safety, please refer to the guideline prior to using the phone. Failure to comply with the guidelines may cause malfunctions or be hazardous to the user.

ROAD SAFETY COMES FIRST

Please be careful not to use the phone while driving. In case you need to use the phone, please pull over your vehicle first. In some countries, it is illegal to use a wireless phone while driving. Also, it is recommended to avoid using a mobile phone while refueling at a gas station

SWITCH OFF IN AIRCRAFT

Mobile phones may cause interference to the aircrafts navigation system. Please make sure the phone is in switch off mode while in the airplanes.

RESPECT SPECIAL REGULATIONS

Please follow special regulations in any areas wherever it is applicable. It is recommended to switch off your phone whenever it is illegal to use, or when it may cause interferences, such as hospitals.

INTERFERENCE

All mobile phones may be subject to radio interference, which may affect the performance during calling and receiving.

QUALIFIED SERVICE

It is highly recommended to have a repair service by

qualified service personnel. Use only the approved accessories and batteries.

USE PROPERLY

Use only in the normal position (hold to the ear). Avoid unnecessary contact with the antenna when the phone is switched on.

EMERGENCY CALLS

When making an emergency calls, please ensure that the phone is switched on and is in service. Enter the emergency number (Official Emergency Number or another official emergency number) and press the [Send Key]. Inform your current location. Do not end the call until given permission to do so. You may end the call by pressing the [End Key].

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 (in a hospital for example).
- Operation of any radio-transmitting equipment, including cellular phones, 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.
- As with other mobile radio-transmitting equipment, you

are advised that for satisfactory operations and personal safety, the equipment should only be used in the normal operating position.

- Always switch off the phone when refueling (service station). You are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (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 cellular phone when in aircraft. The use of cellular phones in aircraft is illegal and may be dangerous to the operation of the aircraft or disrupt the cellular network. Failure to observe these instructions may lead to the suspension or denial of cellular telephone services to the offender, legal action or both.

CARE AND MAINTENANCE

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill the warranty obligations and enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and liquids containing minerals will corrode the electronic circuits.
- Do not use or store the phone in dusty, dirty areas as its

components may get damaged.

- Do not store the phone in warm areas. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal temperature, moisture can form inside the phone, which may damage the electronic circuits.
- Do not attempt to open the phone's casing. Non-expert handling of the phone may cause damages to your phone.
- Do not drop or knock the phone. Rough handling may damage the internal circuits.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe out with a soft cloth slightly dampened in mild, soapy water.
- If the phone or any of its accessories are not working properly, take them to your nearest qualified service center. The personnel there will assist you, and if necessary, arrange for the phone to be repaired.
- Using the earpieces or stereo headset for extended time can cause a serious damage to your hearing. Exposing sound higher than 100db for a long time, you will get possible ear damage that could results from extensive usage of audio playback. You are strongly advised to check the volume level to medium before using.
- Use only Fly branded original chargers intended for use with your mobile phone. Other chargers may not be

designed to the same safety and performance standards. (The use of any other types may invalidate any approval or warranty, and may be dangerous.)

- Do not use the phone while charging the phone. You may be electric-shocked if you use the phone while charging the phone with the USB data cable or the battery charger. Make sure to disconnect the USB data cable or the charger before using the phone.

CHARGER OPERATION

Please, read this manual before using the charger, for the correct operation of the appliance.

IMPORTANT SAFETY INSTRUCTIONS

The charger should be used for Li-Ion accumulators charging only.

- Do not charge other types of accumulators with this charger.
- Do not expose the charger to moisture or rain.
- Do not disassemble the charger or the network adapter.
- Unplug the network adapter when not in use.
- Do not connect this charger with the appliances or peripheral devices, which are not indicated in this booklet.
- It is not recommended to discharge the Li-Ion accumulator before charging.

SPECIFICATIONS OF THE CHARGER

The charger consists of:

- Main charger
- Adapter plates (the compatibility list is cited on the reverse side of the package)
- Network adapter 220V alternating/direct current
- Car electric cigar lighter adapter

ADVICES CONCERNING USAGE

For 220/110V alternating current:

- Connect the charger with the network adapter
 - insert the adapter into the charger jack.
- Plug the network adapter to the wall outlet

For 12V car electric cigar lighter adapter (option):

- Connect the charger with the car electric cigar lighter adapter - insert the adapter into the charger jack, marked as "Input 12-18V DC".
- Plug the adapter into yours car electric cigar lighter (warning: this charger works under 12V connectors only: passenger cars).

Recycling of accumulators

Accumulators should be disposed in accordance with established rules.

It is forbidden to throw away accumulators along with domestic garbage. If possible, use specialized organizations services for accumulators recycling.

Unpacking

Thank you for purchasing this product. Please check the

product contents to see if you have all the available items as below. (*Images may vary from the actual product in your package.)



Handset



Battery



User Manual



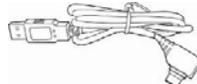
Ear/Microphone



**micro SD (T-Flash) Card
(optional)**



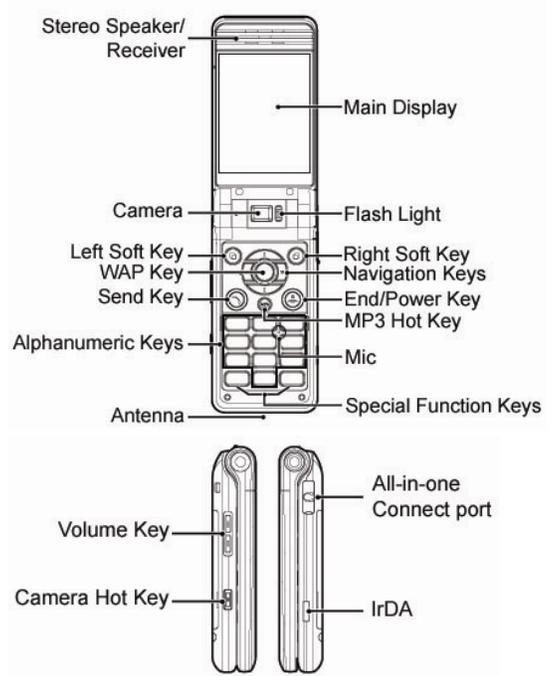
Travel Charger

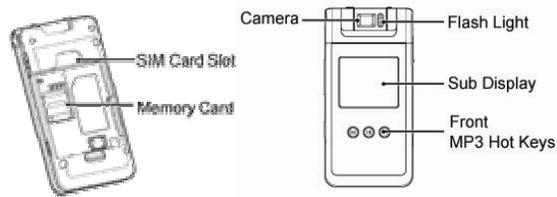


PC Sync Manager CD & USB Data Cable

Your Phone

PHONE LAYOUT





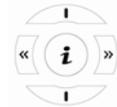
KEY DEFINITION



Soft Keys

Perform functions identified by left/right display prompt.

Right button: Cancel numbers & letters when you make a call or input letter for phonebook, message or WAP.



Navigation Keys

Scroll through the menu options.

Move the cursor up and down in the normal editing mode.

Move the cursor to left and right in all editing mode.



Send Key

Dial or answer a call.

Recall the last 10 numbers in the idle mode.



Power on/off Key & End Key

End a call.

Switch the phone on and off. (press this key and hold)

Cancels your input in the menu facility and returns to the idle mode.



Alphanumeric Keys

You may enter numbers, letters and special characters.

It changes camera settings in camera mode.



Special Function Keys

Enter Special Characters / Perform Various Functions



Side Key (On the left side of your phone)

Adjust the Keypad Tone volume in idle mode.

Flash light on or off in idle mode by pressing and holding the key.

Adjust the earpiece volume during a call by pressing briefly.

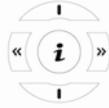
Start "voice recording" during a call by pressing and holding the side key (up).

Stop "voice recording" by pressing the [Stop] soft key.

Adjust the Audio Player volume.

Move through months in calendar mode.

SHORTCUTS



Left: Access to "Write Message"

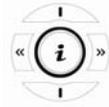
Right: Access to "Calendar"

Up: Access to "Tone Setup"

Down: Access to "Wallpaper"
from an idle mode

You may dedicate the left navigation key for favorite menu in 'Dedicated key' setting menu

(Menu > 4.Settings > 1.Phone Setup > 6.Dedicated Key)



WAP Key

Access to WAP menu (press shortly), and launch WAP browser (press and hold).

Camera Shutter

In camera and video preview mode, work as a shutter.



MP3 Hot Key

Access to Audio Player in idle mode.



Front MP3 Hot Keys

Center:

- Press and hold the key to launch the Audio Player.
- Press shortly to play and pause the music. Press and hold to stop the

player.

Left: go to the previous music.

Right: go to the next music.



Camera Hot Key (On the left side)

Press and hold to start the camera preview mode.

In camera and video preview mode, work as a shutter.



To activate the “Keypad Lock” option, press this key and hold.

Switch Main LCD preview mode and Sub LCD preview mode.

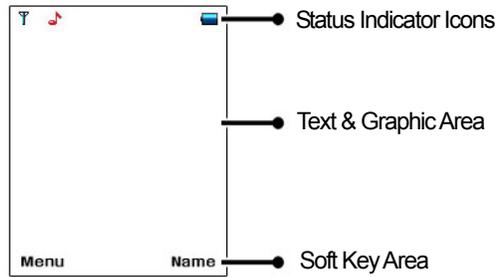


To activate the “Silent Mode” option, press this key and hold.

Flips the camera and video preview; use it when you swivel the camera.

DISPLAY LAYOUT

The idle screen display includes three areas.



ICONS

Icon	Description
	Signal Strength: Shows the strength of the receiving signal. Greater the number of bars, stronger the signal strength.
	GPRS: Shows the strength of the receiving GPRS signal. Greater the number of bars, stronger the signal strength.
	GPRS Connect: Appears when you connect to GPRS.
	Roaming: Appears when the phone is roaming.



L1, L2: Some SIM cards support two phone numbers and you can switch the number (line) with this feature. The phone will display this icon when you set a line.



Missed Calls: Appears when there is missed call(s).



New Message: Appears when a new incoming text message is received and is unread.



MMS Unread: Appears when a new MMS message is arrived and unread.



MMS Busy: Appears when MMS is busy, while receiving and sending a message.



Broadcast Message: Appears when Broadcast Message receive mode is active..



WAP Mail: Appears when WAP mail is received.



Call Barring On: Appears when the call barring mode is active.



Call Forward: Appears when the call forward mode is active.



IrDA: Appears when the IrDA port is activated.



Ring: Appears when the Ring mode is active.



Vibrate and Ring: Appears when the Vibrate and Ring mode is active.

	Vibrate then Ring: Appears when the Vibrate then Ring mode is active.
	Vibrator On: Appears when the Vibration mode is active.
	Silent Mode: Appears when the silent mode (manner mode) is active.
	Alarm On: Appears when you set the alarm.
	Stopwatch: Appears when you set the stopwatch.
	Lock: Appears when you set the phone lock.
	Battery Strength: Shows the level of your battery. The more bars you see, the more power you have left.
	General: appears when you set the Sound & Light profile as General.
	Meeting: appears when you set the Sound & Light profile as Meeting.
	Outdoor: appears when you set the Sound & Light profile as Outdoor.
	Indoor: appears when you set the Sound & Light profile as Indoor.
	Headset: appears when you set the Sound & Light profile as Headset.

Menu Navigation

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, accessible with the two soft keys. Each menu and sub-menu allows you to view and alter the settings of a particular function.

Using Soft Keys

The roles of the **soft keys** vary according to the current context; the label on the bottom line of the display just above each key indicates its current role.

In an Idle screen, by pressing the left soft key (labeled as "Menu"), you can access to menus; by pressing the right soft key (labeled as "Name"), you can view the phonebook list.

Menu Navigation

- **Up & down navigation key:** you may navigate menus up and down.
- **Left navigation key:** You may go to upper depth menu from the current depth.
- **Right navigation key:** You may go to sub depth menu from the current depth.
- **Left soft key:** Access to the sub menu by selecting "Ok" or access to options.
- **Right soft key:** you may go back to the previous screen.

PHONE FEATURES

HW Features

Feature	Description
Dimension	44 x 90 x 17 mm
Main LCD	2.0" 262K TFT LCD (176 x 220)
Sub LCD	0.95" 65K CSTN LCD (96x64)
Camera	CMOS 1.3 Mega Pixel
Flash Light	Yes
Speaker	2 in 1 Speaker
Vibrator	Built-in Vibrator
Antenna	Internal
Phone Memory	Embedded 64MB Free User Memory
SIM	3V
IrDA	Yes
Data Cable	USB Connection and PC Link Manager

microSD (T-Flash) Card (Optional)	<input type="checkbox"/> Use only genuine microSD (T-Flash) cards approved & specified by the SD Card Association and SanDisk: http://www.sdcard.org
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SW Features

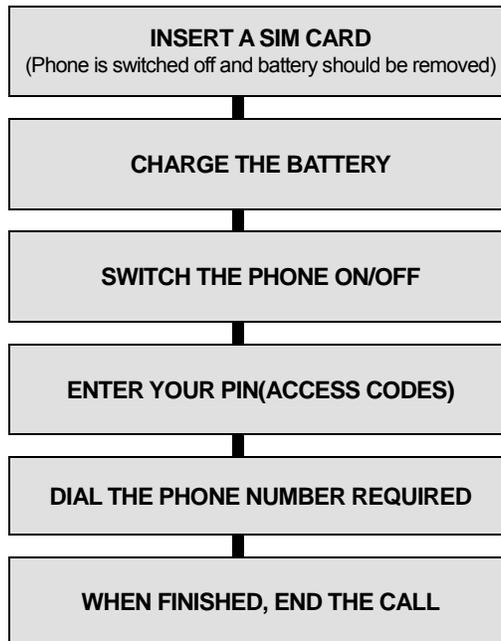
Feature	Description
RF	GSM900, DCS1800, PCS1900
GSM / GPRS	GSM Phase 2 & 2+ / Class 8 GPRS
Message	MMS / EMS / SMS
WAP	WAP 2.0 (Obigo Browser)
Java	CLDC1.1 / MIDP2.0 / JSR120, JSR135, JTWI
DRM	DRM 1.0
Text Input	T9 Intelligent Text Input, Multitap
Video	MPEG4 Encoder / Decoder
Wallpaper	Pictures and user definable JPG, GIF, BMP

Sound	Audio Player MP3, MID, WAV, AMR, iMelody Sound Recorder (AMR, WAV)
Games	Fun Games
Phonebook	300 Entries in Phonebook
Tools	Calendar, To-Do, Alarm, World Clock, Calculator, Unit Converter, Currency Converter, Health Tools, Stopwatch

Getting Started

YOUR FIRST CALL

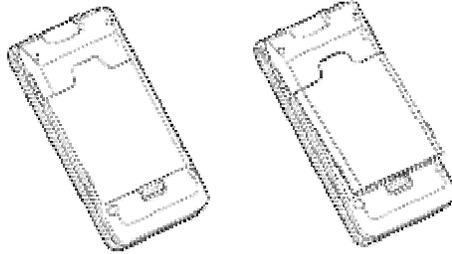
Please refer to the following diagram that describes the main steps to make a first call.



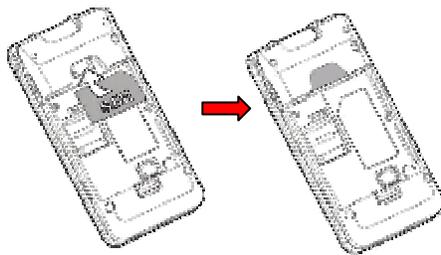
INSTALLING THE SIM CARD

When you subscribe to a cellular network, you will need a plug-in SIM card loaded with your subscription details (PIN, and optional services available).

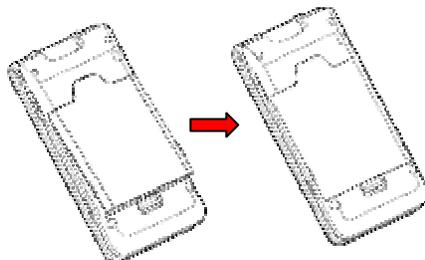
1. If necessary, switch off the phone by holding down the End/Power key until the Power off message appears.
2. Remove the battery by following the steps below:
 - ① Pull up and hold the locking catch above the battery on the back of the phone.
 - ② Lift the battery, as shown below.



3. Put the SIM card into the phone. Ensure that the SIM card is inserted properly.



4. Place the battery pack inside the phone. Slide in the battery cover to the phone. Align the bottom of the battery with the corresponding slots in the phone and place the battery inside the phone.



CHARGING THE BATTERY

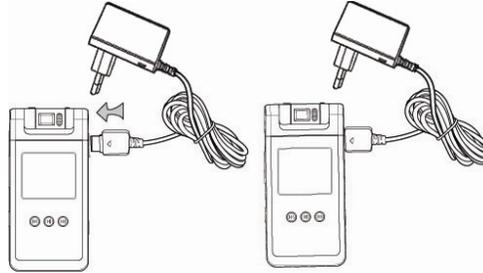
Your phone package comes with a battery, and a travel charger. You can also use USB data cable to charge your phone, however, the charging time may be different from

travel charger.

Use only approved batteries and chargers for your safety.

Note: It is highly recommended to full charge the battery prior to using your phone for the first time.

1. After putting the battery to the phone properly, insert the charging plug into the charging port on the right side of the phone.



While using a proper charger, USB cable, & Stereo Headset, you must insert them into the phone with the arrow side as front as described as below image;

Caution) DO NO INSERT THEM TO REVERSE SIDE!

2. Connect the travel charger to a standard AC outlet.

3. When charging is complete, disconnect the travel charger from the power outlet and the phone by pulling out the charging plug.

LOW BATTERY INDICATOR

When the battery level is low, the phone will make a warning sound and displays a warning message on the screen: When the battery becomes too weak to operate, it switches off automatically.

Note: When the battery is discharged completely, and not used for a while, the phone will not display the charging icon for about 30 minutes while charging. After 30 minutes of charging, the phone will display the charging icon.

SWITCHING THE PHONE ON/OFF

1. Hold down the power on/off key for more than one second to switch on.
2. If the phone asks for a PIN, key-in the PIN. The phone searches for your network and when detected, will display the idle screen. The external display shows the signal strength, battery strength and current time and date.
3. When you wish to switch off the phone, hold down the power on/off key for more than two seconds.

ACCESS CODES

There are access codes for your SIM card. These codes help you to protect the phone against unauthorized use. When requested for any of the code explained below, key-in the appropriate code (displayed as asterisks) and press the **OK** key.

PIN

The **Personal Identification Number** or PIN (4-8digits) protects your SIM card against unauthorized use. The PIN comes with the SIM card; see the SIM card instruction provided with your card.

If you enter an incorrect PIN three times in succession, the code will be disabled and cannot be used until you re-enable it by entering the PUK.

PUK

The 8-digit PUK (**Personal Unlocking Key**) is required to change a disabled PIN. The PUK may be supplied with the SIM card. If not, or in case you have lost it, please contact your service provider.

To re-enable your PIN, proceed as follows.

1. Key-in the PUK and press the **OK** key.
2. Enter a new PIN of your choice and press the **OK** key.
3. When the **Confirm New PIN** message is displayed, key-in the same code again and press the **OK** key.

If you enter an incorrect PUK ten times in succession, the SIM card becomes invalid. Please contact your service provider for a new card.

Pin Password

The 4 ~ 8 digits of password is required when you use the Call barring function. You can obtain the password from your service provider when you subscribe to this function.

General Functions

MAKING A CALL

To make a call on your phone, check the phone if the screen is idle and the phone indicates network signal. Then key-in the area code and phone number using the numeric keys and press the Send Key.

MAKING AN INTERNATIONAL CALL

Press the * key twice to display “+” character.

Input the country code, area code (without the leading zero), and the phone number. Then press the Send Key. The ‘+’ informs the network that it is an international call.

CORRECTING THE NUMBER

Area	Displays
The last digit displayed	Press the [Clear] soft key (right).
Any other digit in the number	Press the Right & Left navigation key until the cursor is exactly to the right of the digit to erase. Press the [Clear] soft key (right).
The whole display	Hold down the [Clear] soft key (right) for more than two seconds.

ENTERING A “PAUSE OR WAIT”

You may enter a pause (“P”) character into a dial string by pressing the left special function key * three times. Press the left special function key * four times to enter a wait (“W”)

character into a dial string.

SEARCH NUMBER

1. [Name] in Idle Screen:

When you make a call, press the [Name] soft key (right) from the idle screen. You can search the phonebook entries from “All location, SIM card, and Phone.” You can choose a phonebook name by pressing the up & down navigation keys. It will display a phone number under the name. Also enter the name you want to search for; it will display the name from the list. Press the Send key to make a call. If you want to view the details of the phonebook entry, select the [Option] soft key and select “View.” Press the Send key to make a call. If there is no phone number in your phonebook, it will display [Empty].

2. Search in Phonebook menu:

You can store the names and phone numbers in the SIM card and phone memory in the [Phonebook]. If you want to find a number by phonebook name, press the [Menu] soft key (left), and select “Phonebook”.

MAKING A CALL WITH SPEED DIAL

To use Speed Dial feature, press and hold the speed dial number key, the phone will dial to the associated phone number. (See [Phone Book] > 7. Speed Dial, for detail).

MAKING A CALL FROM MESSAGE

You can make a call from message by pressing the [Ok] soft key (left) and [Option] soft key (left) and select “Use

Number” and press the Send Key when the number you want to call back is highlighted, or select “Dial” menu in the “Use Number” list.

REDIALING THE LAST NUMBER

The phone stores the last dialed and received numbers. To recall any of these numbers, press the Send Key to display a list of the last dialed numbers.

EMERGENCY CALL

Ensure that the phone is switched on and in service. Enter the emergency number (Official Emergency Number or second official emergency number) and press the Send Key. Provide your location. Do not end the call until given permission to do so. End the call by pressing the End key.

Note : When “**Enter Lock Code**” or “**Enter PIN**” messages are prompted on the display during power-on, some network may not allow emergency call. However, some network may request to insert a SIM card and enter **Official Emergency Number**.

ENDING A CALL

When you have finished your call, press the End key for a short time.

ADJUSTING EARPIECE VOLUME

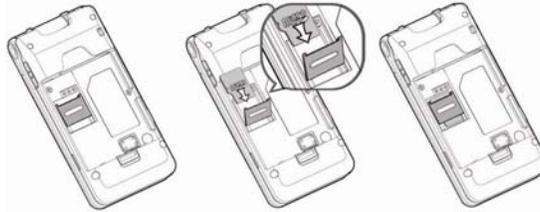
During calling, you can adjust the earpiece volume by pressing up or down side keys on the left side of this phone. If you want to change the keypad tone, press the side volume keys to up or down in an idle mode

SD Card

Warning: It is highly recommended to use only the genuine microSD cards approved and specified by the “SD Card Association.” <http://www.sdcard.org> or SanDisk. Using other products that are NOT indicated by SD Card Association or SanDisk may cause damage to the microSD card slot of your phone.

INSTALLING THE MICROSD CARD

Your mobile phone is compatible with microSD Card. As shown below, open the battery and place the microSD card in the slot as shown below. After inserting the microSD card, slide down the protector.



UNINSTALLING THE MICROSD CARD

Slide the protector up and push the card to slide out. After uninstalling the card, close the protector.

In-Call Options

Your phone provides a number of call control functions that is allowed to use during calling.

- Putting a Call on Hold/Un-hold
- Making a Second Call
- Making an International Second Call
- Answering a Second Incoming Call
- Storing a Number
- Mute a Call

VOICE RECORDING A CALL

You can record the conversation during a voice call.

Press and hold the side key (up) to start recording the call, and press and hold the side key (down).

SWAPPING CALLS

Between Active Call and Held Call

You can swap calls while there are active held calls on conversation. To swap between the active call and the held call, press the **[SWAP]** soft key.

The current active call is placed on hold and the held call is reactivated.

CONFERENCE CALL

You can make calls while there are active held calls on conversation by using [Conference Call] menu in [Call Menu]. [Conference Call] menu appears only when you accept the second call. The current active call is placed on

hold and the held call is reactivated. If you want to quit conference call and do not want to hang up any call, you can choose [Split Call] Menu in [Call Menu]. [Split Call] menu appears only when you are on a conference call.

Note: Some networks do not allow the user to change this setting.

SENDING MESSAGE

You can send messages by using the [SMS] Menu in [Messages] even during you are calling.

INTER-WORKING PHONEBOOK

You can use [Phonebook] menu and sub menus even while you are calling.

Text Input Tips

TEXT INPUT OPTIONS:

While you are in text editing mode, you will be in several modes.

When you see [Option] and [Clear] in the soft key, press left soft key for option: you can save the entry or change the Text Input Method. To erase a character, press the right soft key next to the character you want to erase. You can move among the characters you typed-in by pressing the 4 way navigation keys.

There can be more than two options depending on what contents you are editing.

T9 TEXT EDITING MODE

While you are in T9 editing mode, press the alphanumeric key once for one character. You will see T9 suggested words, i.e. press 6 and 4 key to type in "OK." Press up or down navigation key, to navigate through word list. Press the [Select] soft key (left) to select the word you want to write.

If there is no such word in the word list, the left soft key will change from [Select] to [Add]. Press the [Add] soft key (left) to edit and select 'Done' to save a word to the word list. The next time you enter the word sequence, you can use the saved word.

YOU CAN DEFINE THE DEFAULT INPUT METHOD OF YOUR PHONE AND CHANGE INPUT METHODS TIME TO TIME.

To define your preferred input method, go to “Phone Setup” sub menu in “Settings” menu. Then select “Preferred Input Method.” Once you set the preferred input method, next time you edit in text input mode, the setting will be applied until you change to another.

If you want to change the text input method temporarily, in the text input mode, press [Option] soft key, and select “Input Method” from the option.

- You can change the text input method with # key; the input methods will swap when you press the # key.
- Press and hold the * key to select Symbols.
- Press the * key to toggle select cases of abc, Abc, and ABC.

Using Phonebook

You can store phone numbers and its corresponding names in the memory of your SIM card. In addition, you can store up to 300 entries and categorize in 5 groups. The SIM card and phone memories, although physically separate, are used as if they were a single entity, called phonebook.

STORING A PHONE NUMBER WITH A NAME AND AN IMAGE

As soon as you start to enter a number, [Save] appears above the soft key (left) to allow you to store numbers in the phonebook.

1. Key-in the number to be stored. You can input the number up to 40 digits.
2. Select the storage from "To SIM" or "To Phone." You can also check how many you have saved and total entries you can store in the storage.
3. Select a category to edit. To select the category, scroll to the category and press the [Edit] soft key (left). The following categories are available:
 - To SIM
 - a. Name
 - b. Number
 - c. Caller Group
 - To Phone
 - a. Name

- b. Number
- c. Home Number
- d. Company Name
- e. Email Address
- f. Office Number
- g. Fax Number
- h. Associate Picture
- i. Associate Video
- j. Associate Sound
- k. Caller Group

STORING A PHONE NUMBER USING THE PHONEBOOK MENU

1. Press the [Menu] soft key (left), and select the **[Phonebook]** menu.
2. Scroll to [Add New Entry] by pressing up or down the navigation key and press the **[OK]** soft key (left).
3. Select the storage from "To SIM" or "To Phone." You can also check how many you saved in the storage and total entries you can store.
4. Select a category to edit. To select the category, scroll to the category and press the **[Edit]** soft key (left). Ten categories are available (see "Storing a Phone Number with a Name and an Image" for selecting category, edit and save the entries).

Phone Book

Phonebook offers phonebook storage, management and services. You can access to the phonebook from idle screen, phonebook menu, and message writing modes.

From Idle screen, press the [Name] soft key (right), it will display the phonebook data sorted by name in your SIM Card and phone memory.

To change the text input method:

- 1) Press the [Option] soft key and select Input Method, and then choose the input method from the list, or
- 2) Press the # key, it will change the input method and display icon on the top left.

From the Phonebook menu, you will have sub menus as following.

QUICK SEARCH

When you select the Quick Search in the Phonebook menu, you will see all entries saved in the phonebook. This function allows you to search the phonebook data by name. You may simply type-in alphabet(s), the phone will show you the search result dynamically.

From the phonebook list, you can also View, Edit, Delete, Copy, Move, and Duplicate the entry.

- 1) View: allows you to view the entry's contents such as name, number and so on.

- 2) Edit: allows you to edit the entry items.
- 3) Delete: allows you to delete the entry.
- 4) Copy: allows you to copy the entry from SIM to Phone or Phone to SIM. You will have the same entry in a different storage. (SIM + Phone)
- 5) Move: allows you to move the entry from SIM to Phone or Phone to SIM. The entry will be stored in the original storage. (SIM → Phone, Phone → SIM)
- 6) Duplicate: allows you to duplicate the entry in the same storage. You will have the same data in the same storage.
(SIM+SIM, Phone+Phone)
- 7) Send SMS: allow you to send SMS to selected name, number of your phonebook.
- 8) Send MMS: allow you to send SMS to selected name, number of your phonebook.
- 10) Send vCard: allows you to send the phonebook entry by SMS.

SEARCH ENTRY

When you select the Search Entry, after storing numbers to the phonebook, you can search them by Name.

- 1) Enter a name you want to search in the text input box. Input full name or even a start letter and press the [Option] soft key (left).
- 2) If there is a name, you want to call, choose the name by moving up & down the navigation key.
- 3) Press the Send Key to make a call. However, if there

is more than one entry in the selected name, it will display a list. Then you may simply select one entry and press the Send Key to make a call.

ADD NEW ENTRY

Please see [**Storing a Number using the Phonebook Menu**].

COPY ALL

You can copy all phonebook data from SIM card to Phone or from Phone to SIM. It is a useful function if you want to back up your phonebook data from a SIM card to your phone and vice versa.

DELETE

You can delete all phonebook data in SIM card or Phone. In addition, you can delete the phonebook data one by one.

CALLER GROUP

You can setup and edit Caller Group profiles as following.

- 1) Group Name: Edit the group name, press the [Option] soft key (left), and select "Done" to save the changes.
- 2) Alert Type
- 3) Melody: Allows you to select the ring tone to be used when you receive a call from a person in the group. Scroll left and right with the navigation keys.
- 4) Picture: Allows you to select incoming call picture when you receive a call from a person in the group. Scroll with the navigation keys to change the picture

and go to the next line to select. If you want to view and select images, select the [View] soft key (left) and scroll with the left and right navigation keys. To select the picture, press the [OK] soft key (left).

5) Associate Video

6) Member List

After storing numbers in the phonebook, you can search them by Group.

You can add or delete member(s) to the group member list. Press [Option] soft key then select "Add," it will display a phonebook list excluding the members already in the group. It is possible to set a member in multiple groups.

SPEED DIAL

When you store phone numbers in the Phonebook, you can set up to eight speed dial entries and dial the number more conveniently by pressing the associated number key. This menu allows you to enable, disable and edit the speed dial on the number 2 ~ 9 keys. To use Speed Dial feature, press and hold the speed dial number key, the phone will dial to the associated phone number.

You can edit the speed dial list; press [Ok] soft key to select the '2. Set Number' option in the 'Speed Dial' menu. It will display the speed dial list. Press [Option] soft key, and select 'Edit' and select the entry from the phonebook list by pressing the [Ok] soft key (right).

SPECIAL NUMBER

You can view and edit your mobile phone number (owner number), Service Dial number and SOS number.

- 1) Owner Number: displays your mobile phone number.
You can edit owner's name and phone number.
- 2) Service Dial Number: lists up the SIM SDN (Service Dial Number) and allows you to access to the number by pressing the [Dial] soft key (left) or the Send key.
- 3) SOS Number: lists up the SOS Number.

SETTINGS

You can view and edit the settings for the Phonebook as following.

Memory Status

You can check how many names and numbers are stored in the phone book (SIM card and phone memories) or how much free space is remained.

Preferred Storage

You can set your preferred storage either to SIM or to Phone as a default storage in the phonebook.

Fields

There are fields that you can set on or off in your phonebook entry. (Home Number, Company Name, Email Address, Office Number, Fax Number, Associate Picture, Associate Video, Associate Sound and Caller Group). Press the [On] or [Off] left soft key (left) to turn on or off the field.

My vCard

You can edit, save and send My vCard. You can utilize My vCard as your mobile business card.

1) Edit My vCard

In the My vCard you can edit Name, Number, Home Number, Company Name, Email Address, Office Number, and Fax Number.

2) Send My vCard

You can send My vCard by SMS and IrDA.

Human Voice Prompt

When the human voice prompt function is activated, the phone will prompt the phone number in the phonebook entry list, in voice tone.

View Method

Messages

You can write and read messages in this menu. Message functions are available depending on network services that

your service provider supports.

SMS

The SMS (Short Message Service) function is a network service and your network may or may not support the service. You can send messages in Fax, Page, Email and Text format. To send text messages by phone, you must obtain the SMS center number from your service provider, and enter it on the **SC Address** option in Profile Settings menu.

When the  icon appears on the status indicators area, it indicates that you have received a new message.

Note: The SMS service may not be available on all networks. Some network allows it only within its own network.

Write Message

With this menu, you can write a message as following.

- 1) Select [Write Message] menu in the [SMS] menu.
- 2) Write a message.
- 3) After you complete the message, press the [Option] soft key (left) and then select "Done." Choose one of following options.
 - Send Only: Sends the message to the recipient phone number. It will not save the message.
 - Save and Send: Saves the message, and send it to the required recipient.
 - Save Only: Saves the message so that you can send

it later.

- Send to Many: Send the message to multiple recipients. Select Edit List to add up to 10 recipient(s).
 - Send by Group: Sends the message to the Caller Group. Select a Caller Group from the list.
- 4) You can input the number directly or get from the phonebook by pressing the **[Search]** soft key (left).
 - 5) The phone will display the Message sending Success or Fail message on the screen for all recipients.

Note: If you receive a call while you are writing a message, the message will be backed-up and after the call finishes, the phone will display [write message] mode. You can finish the message without losing the data.

Inbox

With this menu, you can view the new text messages or the read messages.

It will display the sender's phone number or name (if stored in the **Phonebook**) on the list.

If you choose the **[Ok]** soft key, you can view the message contents.

Outbox

With this menu, you can view the sent or unsent messages you have saved.

Send, Edit, Delete, Delete All and Use Number options are available.

Drafts

You can view and edit the saved messages in the Drafts.

Template

You can edit and delete message templates in this menu. You can store your frequently used messages up to 10 messages. For example, "Call Me Now," "How are you," and so forth. You can use the Template by selecting [Use Template] option, when you write a message.

Message Settings

You can setup default Message Information.

1) Profile Settings

Depending on your service provider and service plan, you can set the message profile settings.

You can edit the profile as following:

- Profile Name: edit the profile name.
- SC Address: you have to get the number from your service provider.
- Valid Period: choose from Maximum, 1 hour, 12 hours, 1 day, 1 week
- Message Type: choose from Fax, Page, Email, Text

2) Common Setting

You can set on or off the following common settings

for SMS.

(1) Delivery Report

This allows you to set delivery report on or off.

When this function is set to on, the network informs you whether or not your message has been delivered.

(2) Reply Path

This menu allows the recipient of your Message to send you a reply via your message center, if the network provides Message service. Press the [On] or [Off] soft key (left) to turn this option on and off.

3) Memory Status

This shows memory status of SMS in your SIM card or Phone.

MMS

The MMS (Multimedia Messaging Service), also called Photo Message, allows end-users to send and receive messages containing multimedia content (including images, video, sound and text) between mobile to mobile, and mobile to Email.

Write Message

You can write a message and insert Image, Sound, and Attachment.

- 1) Select [Write Message] menu in the [MMS] menu.
- 2) Compose a message. You can edit To, CC, BCC, Subject, and Content.

- 3) You can input the number directly or get from the phonebook by pressing the **[Search]** soft key.
- 4) After you complete the message, press the [Option] soft key (left) and then select "Done." Choose one of following options.
 - Send Only: Sends the message. It will not save the message.
 - Save and Send: Saves the message, and send it to required recipient(s).
 - Save to Drafts: Saves the message to Drafts. You may send it later.
 - Send Options: Validity Period, Delivery Report, Read Report, Priority
 - Exit: Exits the Write Message, the phone will ask if you want to save the message.
- 5) The phone will display the Message sending Success or Fail message on the screen for all recipients.

Inbox

Same description as for SMS.

Outbox

Same description as for SMS.

Drafts

Same description as for SMS.

Templates

You can edit the MMS templates and write a message in this menu. You can use the Template by selecting [Use

Template] option, when you write a message.

Message Settings

Within the MMS sub-menu, you can define default values on common parameters for mobile-originated messages. By setting default values for MMS messages, you can experience a more comfortable service.

You can set up the MMS related parameters for sending and retrieving the MMS messages.

VOICE MAIL

Your phone is capable of dialing with voicemail server number (if provided by your network). If you receive any voicemail, your phone displays **New Message** in the idle screen.

Select the Voice Mail from the list and press [Option] soft key (left). You can **Edit** the Voice Mail server number.

By selecting the **Connect to Voice**, your phone will dial to the configured number that has been stored in Voice Mail list. You can then listen to the voicemail.

Note: Voice mail is a network feature. Please contact your service provider for more information.

BROADCAST MESSAGE

This network service allows you to receive the broadcast messages on various topics such as weather, traffic, local district code, local hospitals, taxis or pharmacy in your area.

For more information about broadcast message topics, please contact your service provider.

The phone will display the Broadcast Messages immediately when received, on the following condition:

- 1) When the phone is in the idle mode
- 2) When the **Receive Mode** (2.4.1) option is set to **On**
- 3) When the message channel is currently active in the channel list.

Note: This service may not be available on all networks. For more information about the available subjects, please contact your network service provider.

The following options are available:

- 1) **Receive Mode:** You can turn the receive mode on and off by pressing the soft key (left). Allows you to enable or disable the reception of the broadcasted text messages.
- 2) **Read Message:** With this menu, you can read all the broadcasted text messages received. The title area of the screen will display the name of the message subject item. Whenever the phone receives new contents, the phone will update the contents of the message subject.
- 3) **Languages:** Allows you to select your preferred language for displaying cell broadcast messages. The number of languages you can select depends on your SIM card.
- 4) **Channel Settings:** Allows you to indicate the channels

from which you wish to receive broadcast messages. This menu allows you to read, add and delete the list by using **Select**, **Add**, **Edit** and **Delete** option. The number of items in the list depends on your SIM card. It will display all items you selected.

Note: For more information about the available subjects, please contact your network service provider.

Call History

You can identify all call records that you have dialed, received or missed.

It will display the number and name (if available), together with the date and time at which the call was made or received.

MISSED CALLS

This menu lets you view the last 10 missed calls. In the missed calls list, you can view the details of the record by pressing the [Ok] soft key (left). In the view screen, you can make a call to the number by pressing the Send Key.

The following options are available:

- Delete: Allows you to delete the record
- Save to Phonebook: Allows you to save the record to the phonebook
- Dial: Allows you to call back to the recorded number
- Edit: Allows you to edit the number and save to the phonebook

DIALED CALLS

This menu lets you view the last dialed calls.

In the dialed calls list, you can view the details of the record by pressing the [Ok] soft key (left). In the view screen, you can make a call to the number by pressing the Send Key.

RECEIVED CALLS

This menu lets you see the last received calls.

In the list of received calls, you can view the details of the record by pressing the [Ok] soft key (left). In the view screen, you can make a call to the number by pressing the Send Key.

DELETE CALL LOG

This menu lets you delete all call data of each category at once.

The following categories are available:

- Missed Call : Allows you to delete all missed call data
- Dialed Call : Allows you to delete all dialed call data
- Received Call : Allows you to delete all received call data
- Delete All : Allows you to delete all call logs.

CALL TIME

This menu lets you view the timers for calls made and received. The following timers are available.

- Last Call Time : length of the last call
- Total Sent : total length of all calls made since the last reset
- Total Received: total length of all calls received since the last reset.
- Total Time: total length of all calls made and received since the last reset.
- Reset All Time: Allows you to reset the call timers

Note: The actual time invoiced for calls by your service provider may vary, depending on network features, rounding-off for billing purposes and so forth.

CALL COST

You can view the cost of the last call, or of all calls. It will show costs, only if your network operator supports this service.

- **Last Call Cost:** Allows you to check the cost of the last call.
- **Total Cost:** Allows you to check the cost of all calls.
- **Reset Cost:** Allows you to reset the call cost.
- **Max Cost:** Enter PIN2 and input a limitation of the Max Cost.
- **Price Per Unit:** Enter PIN2 and input a limitation of the price per unit.

Note: Not all SIM cards support this feature. The number of items in these lists depends on the contents of your SIM card.

SMS COUNTER

You can view the numbers of sent and received SMS.

GPRS COUNTER

You can view how many GPRS message has been sent and received, and reset the counter.

Settings

You can change settings for your phone using this menu. There are Phone Setup, Call Setup, Network Setup, IrDA, Security Setup and Restore Factory Settings sub menu.

PHONE SETUP

With this menu, you can setup settings regarding display and operations of the phone:

Profiles

You can use the Profile feature to customize various settings depending on environments, such as General, Meeting, Outdoor, Indoor and Headset.

Select each environment and select "Activate" to activate the setting. Select "Customize" to customize the Sound & Light settings.

Customizable options are as following:

- Tone Setup
 - : Incoming Call, Alarm, Power On, Power Off, Folder Open, Folder Close, Message Tone and Keypad Tone
- Volume
 - : Ring Tone, Keypad Tone, Folder Tone, Power Tone and Message Tone
- Alert Type
 - : Ring, Vibration Only, Vibration And Ring and Vibration Then Ring
- Intelligent Call Alert: On/ Off
- Ring Type: Single/ Repeat/ Ascending

- Extra Tone: Warning/ Error/ Camp On/ Connect
- Answer Mode
 - : Folder Answer, Any Key Answer, Send Key Answer
 - And Auto Answer (when Headset Mode)

Time and Date

You can set time and date for your phone.

1) Set Home City

This menu allows you to set a city as your home city.

2) Set Time/Date

This menu allows you to set the current time and date displayed in the idle screen.

3) Set Format

This menu allows you to set Time Format and Date Format.

4) Auto Update of Date and Time

This menu allows the phone to update the current date and time automatically from the network. You can turn on or off this function by pressing the [On] or [Off] soft key (left).

Language

This menu allows you to set the display language.

Select your preferred language and press [Ok] soft key (left) to save the setting. When you change the language setting, the phone will display in the corresponding language mode.

Preferred Input Methods

This menu allows you to define your preferred input method. Once you set the preferred input method, next time you edit in text input mode, it will reflect the setting until you change to another.

Display Settings

This menu allows you to customize desired phone display items as below.

- 1) Wallpaper
- 2) Screen Saver
- 3) Power On Display
- 4) Power Off Display
- 5) Main Menu Style
- 6) Themes
- 7) Greeting Text
- 8) Contrast
- 9) LCD Backlight
- 10) Show Date and Time
- 11) Show Owner Number
- 12) Show Operator Name

Dedicated Key

This menu allows you to set the dedicated function for the 4-way navigation key in the idle mode.

Select from the menu lists, and press [OK] key to change the dedicated menu.

Default Dedicated Keys:

- Up: Tone Setup

- Down: Wallpaper
- Left : Write Messages
- Right: Calendar

CALL SETUP

The following Call Setup features are network services. Please contact your network service provider to check availability and subscribe to the feature.

Caller ID

This network service informs your Caller ID to the recipient when you call out.

You can set the following options for the Caller ID function as following.

- Set By Network: The network will decide whether to send or hide the Caller ID,
- Hide ID: If you do not want to send your phone number, select [Hide ID] menu.
- Send ID: It will send the Caller ID when you call out.

Call Waiting

This network service informs when someone is trying to reach you during another call. You can specify the call waiting option for voice calls only.

The following options for each service are available:

- Activate: activates the call waiting service.
- Deactivate: deactivates the call waiting service.
- Query Status: displays the status of the call waiting service.

Call Divert

This network service reroutes incoming calls to the number that you specify.

Example: you may wish to divert your business calls to a colleague while you are busy. Call diverting can be set up in the following ways.

- Divert All Voice Calls: diverts all voice calls.
- Divert If Unreachable: diverts calls, if you are not in a coverage area of your service provider.
- Divert If No Answer: diverts calls, if you do not answer the phone.
- Divert If Busy: diverts calls, if you are already making another call.
- Divert All Data Calls: diverts all data calls.
- Cancel All Divert: cancels all call diverting options.

Note: The phone sends your settings to the network and the network will acknowledge the settings. You can deactivate all call diverting settings by selecting the **Cancel All**.

Call Barring

This network service allows you to restrict your call for Outgoing Calls, Incoming Calls.

You can also Cancel All call barring settings. You will be able to make and receive calls normally.

You can set and change the call barring password obtained from your service provider using this option. You must enter the current password before you can specify a new one.

Note: The phone sends your settings to the network and the network returns the acknowledgement. You can deactivate all call barring settings by selecting the **Cancel All**.

Call Time Reminder

You can set the call time reminder. Options are Off, Single, and Periodic.

Call Time Display

If you want, you can set the phone to display the call time.

Auto Redial

This option allows you to set redial automatically when the call receiver is busy. If you set [Auto Redial] on, it will redial 10 times to make a call.

NETWORK SETUP

Network Setup helps you in Network Selection, selection of Preferred Network, and GPRS connection

Network Selection

The Network Selection feature enables you to select automatically or manually the network used when roaming outside of your home network.

Note:

You can select a network other than your home network only if it has a valid roaming agreement with your home network.

Options are as following:

- 1) Automatic: You will be connected to the first available network when roaming
- 2) Manual: The phone scans for the available network, and you can select the network manually.

Preferred Networks

You can set your preferred networks from PLMN list. You can Add From List, Create New, Change Priority and Delete

GPRS Connection

Press [Change] soft key (left) to change the setting for the GPRS connection.

It will switch and save the GPRS connection to set on:

- 1) When Needed.
- 2) Always

IrDA

You may use the IrDA port of your phone to send or receive files with other phone or PC equipped with IrDA port.

Activation Menu

Open / Close : allows you to open or close the IrDA port. After selecting the IrDA to Open, you may send files from Phonebook, My vCard, Camera, Video, or from a File Manager.

Storage Location

You can choose where to save the files, either to phone or Memory Card.

SECURITY SETUP

There are six types of security setting categories, and you can optimize security mode by choosing sub menus in “Security Setup” in “Settings” menu. These security settings will help you to keep privacy and to prevent other people from using the phone without your permission.

PIN Lock

When the PIN Lock feature is on, the phone only works when you enter PIN code for the SIM card. If you turn on the phone with the SIM card, the phone will ask for the password. Once the correct password is entered, the phone will work with the SIM card.

Phone Lock

When the Phone Lock feature is on, user must enter the password each time you turn on the phone. Making a call or operating the phone is not available without the password.

Auto Keypad Lock

To prevent unwanted accidental key presses, you can use this auto keypad lock function. You may not make a call or operate the phone until you press the unlock code. However, answering a call, receiving messages are available without entering the unlocking key sequence.

To change the Keypad Lock setting,

- 1) Press and hold the * key or
- 2) Press the menu key and select 4. Settings / 4.5 Security Setup / 4.5.3 Auto Keypad Lock.

To unlock the Keypad Lock time setting,

- 1) Press the [unlock] soft key (left) and * key in sequence, each time you need to release the keypad lock.

Fixed Dial

- 1) When the Fixed Dial mode is enabled, the person using this phone can call to the phone numbers stored in the Fixed Dial List only. To make a call to the number not starting the numbers stored in Fixed Dial List, you must enter the PIN2 to disable Fixed Dial mode. If the SIM card does not have PIN2, this feature is not supported.

Barred Dial

When the Barred Dial mode is enabled, the person using the phone cannot call numbers in the barred dial list. To call a barred number, you must enter the PIN2 to disable the barred dial mode. If the SIM card does not have PIN2, it will not support the Barred Dial feature.

Change Password

To change the password, input the current password, and then enter the new password.

Note: The initial password is "0000." After you change your password, you will need to input the password. If you forgot your password, contact the service center.

RESTORE FACTORY SETTINGS

This feature would reset the phone to the same settings as those configured at the factory. In this case, it does not

delete the downloaded objects and phonebook records.
You will need to input password to restore factory settings.
The initial password is 0000.

Multimedia

The Multimedia menu provides you with several multimedia functions.

- Camera
- Image Viewer
- Video Recorder
- Video Player
- Photo Manager
- Audio Player
- Sound Recorder
- Melody Compose

CAMERA

This phone has a 1.3 Mega Pixel Camera. You can enjoy taking photos and see the saved photos. You can take a picture whether the folder is opened or closed. In addition, you can take a picture with flashlight, while you swivel the camera.

You can access to Camera preview mode by pressing the side camera key when the phone is displaying the idle screen or by pressing and holding the side camera key when the phone is closed.

You can also use [Camera] menu after pressing the [Menu] soft key (left) to open the main menus and choosing [Multimedia] then [Camera] menu. Before taking a picture, you can set your camera settings on screen by pressing navigation keys, alphanumeric keys, and [Option] soft key (left).

1) Taking and Saving a Photo

By using these functions, you can take a photo and save.

- (1) Choose [Camera] menu or press the side camera hot key. Press and hold it when the phone is closed.
- (2) Then the screen will display the camera preview.
- (3) Set your camera using [Option], alphanumeric keys or pressing the navigation key right and left to set brightness or up and down to set zoom.
- (4) After setting the view and take a picture by pressing the center navigation key or side hot key.
- (5) If you want to save the picture, select the [Save] soft key (left) and edit the picture name, and press the left soft key [Option] then select "Done."
- (6) You can view the image in the Image Viewer.

2) Key Usages in Camera Preview

Navigation Keys

- (1) In the camera preview mode,
 - A. Brightness Setting (Left & Right Navigation Key): allows you to adjust the brightness (exposure value). When you press the right navigation key, the camera preview screen will become brighter, and the left navigation key the opposite.
 - B. Zoom Setting (Up & Down Navigation Key): By pressing the navigation key up or down, you can zoom in and out the preview.
 - C. Shutter (Center Navigation Key and Side hot key): you can take a picture by pressing the

shutter key.

- (2) In Camera option mode,
 - A. You can use the left and right navigation keys to select an option.
 - B. You can use the up and down navigation keys to navigate through the option list.

Function Keys

There are more functions. You can use these functions by pressing the keys.

- (1) Option (Left Soft key) – press the [Option] soft key (left) to view and select options for the Camera settings and viewer. See details the following descriptions for Options.
- (2) Cancel or Back (Right Soft key)– if you want to cancel your key-input or go back to upper menu, press the [Back] soft key (right).

Alphanumeric Keys

You can easily change the camera setting by pressing the following alphanumeric keys. The screen will display and toggle camera option icons, when you press the following keys.

Note: Camera options

Key	Setting
1	Effect Settings (Normal, Grayscale, Sepia, Sepia Green, Sepia Blue, Color Invert, Gray Invert, Blackboard, Whiteboard, Copper Carving, Blue Carving, Embossment, Contrast,

	Sketch, Custom FX1, Custom FX2, Custom FX3)
2	White Balance (Auto, Daylight, Tungsten, Fluorescent, Cloud, Incandescence)
3	Flash Light (On, Off) (turns on and off the camera flash)
4	Delay Timer (5,10, 15, Off)
5	Continuous Shot (3, 5, Off)
6	Night Mode (On, Off)
7	Image Quality (Normal, High, Fine, Low)
8	Image Size (1280x1024, 640x480, 320x240, 176x220)
9	Show or Hide Option icon
#	Switch Camera and Video mode.
0	Go to Image Viewer
*	Switch MainLCD and SubLCD.

3) Camera Settings

- (1) White Balance (Auto / Daylight / Tungsten / Fluorescent / Cloud / Incandescence)
- (2) Flash Light (On/Off): You can set the camera flashlight on or off with this setting. When the Flash is on, the camera flash will lit on when you take a picture.

- (3) Shutter Sound (Sound1/2/3/Off): Allows you to select a shutter sound among three kinds of shutter sounds or turn off the shutter sound. The sound makes you feel the sense of taking a picture.
- (4) EV (-4/-3/-2/-1/0/+1/+2/+3/+4): You can set the EV (Exposure Value) and the preview will look darker in lower EV and brighter in higher EV.
- (5) Night Mode (On/Off)
- (6) Banding (60Hz/50Hz): You can select the sampling bandwidth of the camera sensor. When bandwidth increases, the memory size and the picture quality will increase.

IMAGE VIEWER

You can see your photos in your phone by choosing [Image Viewer] menu in [Multimedia] menu. It will display the photos with thumbnail, image name, and image size.

Options:

- 1) View: allows you to view the image in full screen. Press the navigation key up and down to view other images
- 2) View Mode: allows you to view images either List view or Matrix view
- 3) Forward: allows you to forward the image to Wallpaper, Sub Wallpaper, Screen Saver, Power On Display, Power Off Display, Phone Book, MMS, EMS and IrDA.
- 4) Rename: allows you to edit the image title.

- 5) Delete: allows you to delete the selected image.
- 6) Delete All Files: allows you to delete all images in the storage.
- 7) Sort: allows you to sort the image by Name, Type, Time and Size.
- 8) Storage (Phone / Memory Card): allows you to select the storage for saving images.

VIDEO RECORDER

With this phone, you may record a video with the Video Recorder menu.

Options:

- 1) To Player (to Phone/ to Memory card): allows you to have options to choose where to save your recorded video.
- 2) Camcorder Settings: allows you to set various types of camcorder settings as follows
 - White Balance
 - Flash Light
 - EV
 - Night Mode
 - Banding
- 3) Video Setting: allows you to set various types of Video settings as follows
 - Video Quality
 - File Size Limit
 - Record Time Limit
 - Record Audio

- 4) Effect Settings: allows you to have various types of effects to your video.
- 5) Storage (Phone / Memory Card): allows you to select the storage for saving images.
- 6) Restore Default: allows you to restore to the video recorder's default settings.

VIDEO PLAYER

You can view the recorded video with the Video Player. Press the side volume key to adjust the volume.

Options:

- 1) Play: allows you to play the recorded video
- 2) Forward: allows you to forward the video image to Phone Book, Screen Saver, MMS and IrDA.
- 3) Rename: allows you to rename the video file
- 4) Delete: allows you to delete the video file
- 5) Delete All Files: allows you to delete entire recorded video files.
- 6) Sort: allows you to sort video files by name, type, time and size
- 7) Storage (Phone / Memory Card): allows you to select the storage for saving video files.

PHOTO MANAGER

You can edit photo image with this function..

- 1) Select the image file you want to edit in the File Manager storage.
- 2) Choose 'Auto Resize', 'MainLCD Clip' or 'SubLCD Clip'.

- Auto Resize function resizes the selected image to full image
- MainLCD Clip function clips a part of image to fit in 176x220 pixels.
- SubLCD Clip function clips a part of image to fit in 96x51 pixels.

3) Options

- Save As: after editing the selected image, save the image to other file name. Phone automatically issues a file name. You can also edit the file name.
- Add Effect: you can add effect such as Sepia, Grayscale, and so on. Press the left or right navigation keys to change selection.
- Add Frame: press left or right navigation keys to change selection of picture frames.
- Add Icon: press side key to change selection. Press the up, down, left, or right navigation keys to move the icon. Press the center navigation key to stamp the icon on the image.
- Add Text: Edit the text and you can change text color, border color, shadow color, font size (depending on language), and italic the font. Press the up, down, left or right navigation key to move the text. Press the center navigation key to stamp the text.
- Adjustment: you can adjust brightness, contrast, saturation, hue, and color (RGB) of the image.
- Flip: you can flip the image in horizontal left/right,

vertical up/down.

- Expand Canvas: when the image is smaller than 176x220 pixels, you can expand canvas size to full screen.
- Help: you can view key instructions.

AUDIO PLAYER

You can listen to MP3, MIDI, WAV, AMR, iMelody music files with the Audio Player.

- 1) By pressing the MP3 key on the keypad
- 2) By pressing the MP3 key on the front cover of the phone when the phone is closed
- 3) By pressing the [Menu] soft key and select [Multimedia] menu and 6. Audio Player sub menu.

To view the music list, press [List] soft key. It will display available music list from the microSD Card or Phone depending on Play List setting. To play the music, press the left or right navigation key, or press [Option] soft key and select "Play."

Options:

- 1) Play: allows you to play the music files
- 2) Detail: displays details of the music file, such as a Music Title, Artist, Album, Play Time, File Size and so forth.
- 3) Add to Rings: allows you to set the music file in the microSD card or phone memory as a ring tone. You should insert the microSD card to enable this function and to use the ring tones from the microSD card.

- 4) Add: allows you to add a directory to the play list. This option is available when you set the List Auto Generate to Off.
- 5) Remove: allows you to remove the selected file from the play list. This option is available when you set the List Auto Generate to Off.
- 6) Remove All: allows you to remove all files from the play list. This option is available when you set the List Auto Generate to Off.
- 7) Refresh List: allows you to refresh the music list.
- 8) Settings
 - (1) Play List (From Memory Card/From Phone)
 - (2) List Auto Generation (On/Off): you can select whether to generate the music list automatically or manually. When this option is On, music files in the main directory will be selected in the play list; when the option is Off, you can add a file or a directory to the play list.
 - (3) Skin (Skin 1/2/3): you can select the Audio Player skin depending on your taste.
 - (4) Repeat (One/All/Off): allows you to set repeat option. When you select one or all, it will repeat the selected file or all music files. When you select this option to off, it will play the music file one time and stop.
 - (5) Shuffle (On/Off): allows you to set the shuffle feature on or off. This function is useful if you want to listen to the music in random order rather than

from first file to the last.

- (6) Background Play (On/Off): allows you to set the Audio Player to play the music while you are using the phone other than audio player, such as menu navigation. When Background Play option is On, it will play the music, even if you press the End key or [Back] soft key (right).

When the Background Play option is Off, and you press the End key or [Back] soft key (right), it will stop playing the music file.

- (7) Equalizer: allows you to set equalizer as Normal, Bass, Dance, Classical, Treble, Party, Pop, Rock.

To make a play list from the selected directory:

- 1) Access to the Audio Player.
- 2) Press the [List] soft key (left).
- 3) Press the [Option] soft key (left) and select **Settings**, and set the **List Auto Generate to Off**.
- 4) Select **4. Add** from the [Option] menu, the phone will display the File Manager. Using the navigation keys, highlight the desired directory or file in the File Manager
- 5) Press the [Option] soft key (left), and select **1.Select**. The music files in the selected directory will be added to the play list.

SOUND RECORDER

With this menu, you can record sound in AMR and WAV format and use it as voice memo, ring tone, MMS and

EMS attachment.

- 1) Options when there is no record file in the Sound Recorder:
 - (1) Record
 - (2) Settings
- 2) Options, if you have more than one record file:
 - (1) Record: allows you to start recording.
 - (2) Play: when there is a file in the list, it will play the recorded sound file.
 - (3) Append: allows you to append additional recording to the previously recorded file. This function is available only for AMR format files. This option appears when there is any recorded file.
 - (4) Rename: allows you to change the file name.
 - (5) Delete: allows you to delete the selected file.
 - (6) Delete All: allows you to delete all files in the sound record list.
 - (7) Settings
 - A. Preferred Storage (Phone / Memory Card): allows you to set the preferred storage.
 - B. File Format (AMR / WAV): allows you to select recording the sound in AMR and WAV format.
 - (8) Forward
 - A. To Tone Setup: allows you to use the sound file as a Ring Tone in Tone Setup.
 - B. To MMS: allows you to write an MMS message with the selected sound file.
 - C. To EMS: allows you to write an EMS message

with the selected sound file.

D. To IrDA: allows you to forward the selected sound file to IrDA of your PC or other's phone.

MELODY COMPOSE

With this menu, you can create an iMelody file. You can use this melody as your Ring Tone, MMS and EMS attachment.

How to compose a melody:

1) When you first use the Melody Compose,

- (1) Press the [Add] soft key (left)
- (2) Start composing a melody pressing the numeric keys.

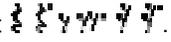
Press the [Option] soft key and select "Save." Edit and save a file name by pressing the [Option] soft key (left) and select "Done."

Options while editing:

- (1) Play: allows you to play the composed file before you save the file.
- (2) Play Speed (Fast / Normal / Slow)
- (3) Select Instrument
(Piano / Guitar / Violin / Saxophone / Steel Drums / Flute / Harmonica / Trumpet / Music Box / Xylophone)
- (4) Save: when you are done composing, select "Save."
- (5) Storage: allows you to select the storage for saving sounds. You can choose from Phone and

Memory Card.

Note:

1: Do, 2: Re, 3: Mi, 4: Fa, 5: Sol, 6: La, 7: Ti
8: Vibration – allows the phone vibrates.
9: Light – allows the LED lit.
0: Rest – indicates the rest place.
* : toggles options, such as notes  and rest .
#: changes the accidentals. Press 1~7 and then press the sharp key; the musical scale will be switched with between Sharp (#) / Flat (b), if applicable.
Navigation Up, Down Keys: changes an octave, and toggles options when applicable.

2) If you have more than a record file,

Press the [Option] soft key (left), and select 'Add' to start composing a melody.

Options:

- (1) Play: allows you to play the selected file.
- (2) Edit: allows you to edit the composed music.
- (3) Add: allows you to compose a new music file.
- (4) Rename: allows you to rename the selected file.
- (5) Delete: allows you to delete the selected file.
- (6) Delete All Files: allows you to delete all files in the list.
- (7) Forward: allows you to forward the composed file to the following usages.

- A. To Tone Setup: allows you to forward the sound file to Tone Setup as a Ring Tone.
- B. To MMS: allows you to write an MMS message with the selected sound file.
- C. To EMS: allows you to write an EMS message with the selected sound file.
- D. To IrDA: allows you to forward the selected file to IrDA of your PC or other's phone.

Fun

The Fun provides you with Java interface and Games. You can use your phone as your entertainment center.

JAVA

Using this menu you can enjoy the embedded Java games and downloaded Java games or Java Applications from WAP. Follow the instruction of the application or game. Loading time will vary from applications to applications.

There are embedded Java games for your mobile phone. (Depending on Software version)

Press [Option] soft key (left) and select 'Launch' to execute the java game or application.

Java Options:

- 1) Launch: allows you to launch the selected game or application.
- 2) Settings: allows you to change the setting for Java.
 - Network Access: allows you to set if you wish to access the network. Select from Allow, Prompt Always, and Never.
 - Auto Invocation: allows you to set if you wish to invoke automatically. Select from Allow, Prompt Always, and Never.
 - Messaging: allows you to set if you wish to use messaging. Select from Allow, Prompt Always, and Never.

- 3) Information: displays Java Midlet information of the selected java game or application, such as name, size, version, vendor, and jad or jar website of a Midlet.

JAVA SETTING

You can setup audio, network profile, and free data space.

- 1) Java Audio: allows you to set the Java audio sound to on or off.
- 2) Java Vibration: allows you to set the vibration to on or off.
- 3) Java Network: you can select the java network from the list.
- 4) Free Data Space: you can view the free data space.
- 5) Heap Size: you can view the remaining heap size.

GAMES

This phone provides you two embedded games. Please see the following instructions for each game, and enjoy the games.

When you select a game, you will have the following menu:

- 1) Start Game: allows you to start playing the game.
When you press the right soft key, it will go back to menu with Resume option added. Select "Resume" to continue playing the game.
- 2) Game Level: you can choose the game level from Easy/Normal/Hard.
- 3) Best Grades: will display the best records in each level.
Press [Reset] soft key (left) to reset the best grades record.

- 4) Game Help: describes about the game and an instruction.

GAME SETTING

You can select the game setting. This will be applied to the game plays in **6.3 Games**.

Press the left or right navigation key to select the setting and press the **[Ok]** soft key to save the setting.

- 1) Game Audio (On/Off): allows you to set the audio sound on or off while you are playing a game.
- 2) Game Vibration (On/Off): allows you to set the vibration on or off while you are playing a game.

Tools

Tools menu helps you to utilize your phone as Calendar, To-Do List, Alarm, World Clock, Calculator, Unit Converter, Health and Stopwatch.

CALENDAR

The calendar helps you to keep track of memos, calls that you need to make, anniversaries, and To-Do's.

To Do List

You can view all saved tasks. It displays a task or tasks saved in the calendar. The To Do List shows the notes of the tasks from the oldest task to the latest task.

ALARM

This menu allows you to set the alarm to ring at a specific time. You can save up to three alarms.

To stop the alarm when it rings, press the [Stop] soft key (left) to stop the alarm or press the [Snooze] soft key (right) to snooze the alarm so that it will remind you again in four minutes.

WORLD CLOCK

This feature allows you to check the current time based on Greenwich Mean Time (GMT) for major cities around the world.

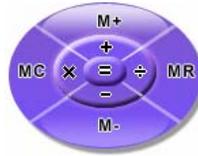
The screen shows the;

- City name
- Current date and time
- Day or Night icon (☀️ 🌙).

To set the time zone of your location, select the city corresponding to your time zone by pressing the left and right navigation keys. The phone will display the local date and time.

CALCULATOR

Using this feature, you can use the phone as a calculator. The calculator performs the basic arithmetic functions and memory functions; Addition, Subtraction, Multiplication and Division; Add to Memory, Subtract to Memory, Memory Clear and Memory Read.



To perform a calculation:

- 1) Enter number(s) using the numeric keys. You can enter from -99,999,999 to 99,999,999, and 5 below decimal.
- 2) Press the following keys appropriately.

Key	Description
*	Toggles and enters decimal point, (and).
#	Toggles and enters +, -, X, /, %
Send	MR: stores the result in memory M+: stores the previous result + the result. M-: stores the previous result - the new result. MI: displays the stored previous result

	MC: initialize the stored result to zero (0).
Movie	Clears all entries, results, and memory.
Left Soft Key	[Edit]: changes to input number mode [OK]: obtains a result
Right Soft Key	Clears a number or an arithmetic symbol. Clears all entries, when you press and hold it.

- 3) Repeat Steps 1 to 2 as many times as required.
- 4) To calculate the result, enter the [OK] soft key.
- 5) When you have finished, press the [Back] soft key (right) or the End key to exit.

UNIT CONVERTER

You can convert from one type of unit to another.

To convert a value:

- 1) Select the weight or length options.
- 2) Press the left or right navigation keys and select the type of conversion to be performed.
(Example: Kg ↔ Pound)
- 3) Using the up and down navigation keys, place the cursor on the desired unit
- 4) Input the value to be converted, and then press [OK] to get the result.

You can enter a decimal point (.) using the # key.

Weight

Kg ↔ Pound, Kg ↔ Ounce

Length

Km ↔ Mile, M ↔ Yard
M ↔ Foot, cm ↔ Inch

Currency Converter

To convert currency:

- 1) Input a currency rate.
- 2) Press the [Ok] soft key (left).
- 3) Press the left or right navigation keys to choose how you want the currency to be calculated.
(xxx:1 or 1: xxx)
- 4) Press down the navigation key and input the local currency value.
- 5) Press the [Ok] soft key (left) to get the result.
- 6) If you want to convert other local amount, press the up navigation key and select the currency convert type (xxx:1, or 1: xxx), and repeat steps 4) and 5). If you want to convert with other currency rate, press the [Back] soft key.

HEALTH

With the Health menu, you can check your Body Mass Index.

BMI

BMI is an index for your health, keeping in the Normal range is recommended for your health. Low BMI and high BMI both are critical for the health.

	Thin	Normal	Fat
Female	~ 18	18 ~ 23	23 ~
Male	~ 20	20 ~ 25	25 ~

BIO Rhythm

You can check your biorhythm with your birthday.

STOPWATCH

This is a tool to measure timing; Split Stopwatch, Lap Stopwatch and nWay Stopwatch. You can use the stopwatch functions for various sports; for example, running, swimming races, or car races.

Typical Stopwatch

There are Split Timing and Lap Timing stopwatch functions in this typical stopwatch menu.

- 1) Split Timing: Split Timing is useful for measuring each player's record from start. The timing will be recorded earliest to latest.
- 2) Lap Timing: You can use the Lap Timing function to measure each lap record.
- 3) View Record: When you save the timing records from the Split Timing and the Lap Timing, it will be saved and listed in this menu.

nWay Stopwatch

You can use 4-way navigation keys for measuring times for each direction.

When you press a navigation key, the direction stopwatch will start timing, and other direction stopwatch will pause the timing. When you press the paused direction's navigation key, the stopwatch will resume timing.

Services

This menu allows you to use services including SIM card additional services, WAP and Data Service.

SIM TOOLKIT

If you use a SIM card that provides additional services, the STK menu displays. For details of SIM Card Tool Kit, please refer to your SIM card instructions. If you have any questions, please call After Sales support center.

WAP

You can connect to WAP site by this phone, and use the services provided by the sites. The WAP browser works as Internet browser of PC. And the services are provided by the connected sites.

Homepage

When you choose [Homepage] menu, WAP browser opens the main page of home site that you had activated among the sites in [Profile].

Bookmarks

You can make bookmark data in your phone. And you can connect to the site directly.

Recent Pages

When you choose [Recent Pages] menu, WAP browser opens the latest WAP page.

Enter Address

If you know the URL of the site, you can go to the site directly by inputting the URL.

WAP Push

Your phone receives WAP service messages and saves them in the WAP Push. You can read the message in the Inbox.

Settings

This option allows you to set the WAP settings. There are several profiles of sites in this phone. You can activate one of them as a home site and change or set each profile.

- Edit Profile : Shows the name of selected site and you can edit the profile(s).
- Browser Options: Time out, Show Image
- WAP Push Setting: On/Off
- Clear Cache: clears the most recent site files that you have downloaded in the temporary memory.
- Clear Cookie: deletes cookies in the memory.
- Clear Recent Page List: clears recent page list in the memory.
- Clear Address: deletes all addresses, which you entered in 8.2.4 Enter Address.
- Trusted Certificates: saves and lists the Trusted Certificated from the WAP sites. You can view and delete the certificates.

DATA ACCOUNT

This menu allows you to change the settings for the GSM and GPRS network services. For further details, contact your service provider.

GSM

This setting allows you to change the settings for the GSM network as following:

- Account Name: Edit the account name.
- Number: Enter the server phone number.
- User Name: Enter the user name required to connect to GSM Data network.
- Password: Enter the password required to connect to GSM Data network.
- Line Type: Choose a network connection type between Analogue and ISDN.
- Speed: Select the desired speed from 4.8, 9.6 Kbps and 14.4 Kbps.
- DNS(000.000.000.000): Enter the IP address

GPRS

This setting allows you to change the settings for the GSM Data network as following.

- Account Name: Edit the account name.
- APN: Enter the access point name used for the address of the GPRS network gateway.
- User Name: Enter the User Name required to connect to GPRS network.
- Password: Enter the password required to connect to GPRS network
- Auth. Type: Select the authorization type from Normal and Secure.

File Manager

This menu allows you to navigate the stored files in the

phone or memory card. You can open files and use them in a way the phone supports, and see the total memory used and free space in the storage.

1) Checking the Memory of the Phone and the microSD Card.

You can view the remaining memory (free) and total memory of the phone and the microSD Card.

2) Opening the memory storage

- (1) Open: allows you to open the storage, and view folder(s) and file(s).
- (2) Create Folder: allows you to create a folder.
- (3) Format: allows you to format the selected memory. Be careful that it will delete all data files in the storage.

3) Opening a Folder

- (1) Open: allows you to open the folder and view a list of files in the folder.
- (2) Create Folder: allows you to create a folder.
- (3) Rename: allows you to edit the folder name.
- (4) Delete: allows you to delete the folder.
- (5) Sort: allows you to sort the files in the folder by name, by type, by time and by size.

4) Opening a File

You can view, play, and setup files in the storage disks or in the folder.

- (1) View / Play: allows you to view or play the file.
- (2) Forward: allows you to forward the file to use as the

following:

Image File (bmp, jpg, and gif format) **options:**

- A. Wallpaper: allows you to set the file as an idle screen wallpaper.
- B. Screen Saver: allows you to set the file as a screen saver.
- C. Phonebook:
 - a. To New Entry: allows you to set the file as an Associated Picture and to enter a new phonebook entry.
 - b. Selected Entry: allows you to select a phonebook entry and set the file as associated picture.
 - c. To Caller Group: allows you to designate the file as an Associated Picture for the selected Caller Group.
- D. To MMS: allows you to send the file through MMS (see 2.Messages for detail).
- E. To EMS: allows you to send the file through EMS (see 2.Messages for detail).
- F. To IrDA: allows you to forward the selected file to IrDA of your PC or other's phone.

Sound File (mid, wav, mp3, AMR and iMelody format) **options:**

- A. To Tone Setup: allows you to forward the sound file to the Tone Setup.
- B. To MMS: allows you to send the file through

- MMS (see 2.Messages for detail).
- C. To EMS: allows you to send the file through EMS (see 2.Messages for detail).
 - D. To IrDA: allows you to forward the selected file to IrDA of your PC or other's phone.
- (3) Detail: displays information of the file, date and size.
- (4) Rename: allows you to edit the file name.
- (5) Copy: allows you to copy the file to the other folder or other storage.
- A. Select the folder and press the [Option] soft key (left)
 - a. Done: copies the file to the selected folder or storage disk.
 - b. Open: opens the selected folder
 - c. Create Folder: allows you to create a folder.
 - B. Press the [Back] soft key (right) to save the file to the other storage. Select the storage disk name then select a folder. It will give you the same option as (1).
- (6) Move: allows you the move the file to the selected folder or storage. The file will be removed from the original folder and paste to the selected folder.

Note: After selecting Copy or Move option, press the left or right navigation keys to access to the upper or lower folder.

- (7) Delete: allows you to delete the selected file.
- (8) Delete All Files: allows you to delete all files in the

selected folder.

(9) Sort: allows you to sort the files by name, by type, by time, and by size.

SIM AT Service

SIM Card provides several value-added services.

These functions will only display and work on the menu of the phone when your SIM card is supported. If your SIM Card does not support such services, the phone will not

display those menus.

The content and the terms of the function lists will depend on your network service provider.

Please contact your network service provider (a network operator or the service provider) in regards with availability of any services related to the SIM card, application information and the costs.

Note: Please be aware that charges may be applied to your bill due to activated SMS or Call when you perform those services. The text of SIM AT menus may be different from your phone language setting because the text directly comes from your SIM card

Using Batteries

PRECAUTIONS WHEN USING BATTERIES

- Never use any charger or battery that is damaged in any way.
- Use the battery only for intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby times are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time. When charging after complete discharge, the phone will not display anything for about 30 minutes.
- Use only approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten the battery life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as it will reduce the capacity and lifetime of the battery. Always try to keep the

battery at room temperature. A phone with a hot or cold battery may not work temporarily, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0° (32°).

- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and – terminals of the battery (metal strips on the battery), for example, when you carry a spare battery in a pocket or bag.
- Short-circuiting the terminals may damage the battery or the object causing the short-circuit.
- Dispose the used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Menu Map

Phonebook

- Quick Search
- Search Entry
- Add New Entry
 - To SIM
 - To Phone
- Copy All
 - From SIM
 - From Phone
- Delete
 - From SIM
 - From Phone
 - One By One
- Caller Group
 - Friends
 - Family
 - VIP
 - Business
- Others
- Speed Dial
 - Enable Speed Dial
 - Set Number
- Special Number
 - Owner Number
 - Service Dial Number
 - SOS Number
- Settings
 - Memory Status
 - Preferred Storage
 - Fields
 - My vCard
 - Human Voice Prompt

Messages

- SMS
 - Write Message
 - Inbox
 - Outbox
 - Drafts
 - Template
 - Message Settings
- MMS
 - Write Message
 - Inbox
 - Outbox
- Drafts
- Templates
- Message Settings
- Voice Mail
- Broadcast Message
 - Receive Mode
 - Read Message
 - Languages
 - Channel Settings

Call History

Missed Calls	Call Cost
Dialed Calls	Last Call Cost
Received Calls	Total Cost
Delete Call Log	Reset Cost
Missed Calls	Max Cost
Dialed Calls	Price per Unit
Received Calls	SMS Counter
Delete All	Sent
Call Time	Received
Last Call Time	GPRS Counter
Total Sent	Last Sent
Total Received	Last Received
Total Time	All Sent
Reset All Time	All Received
	Reset Counter

Settings

Phone Setup	LCD Backlight
Profiles	Show Date and Time
Activate	Show Owner Number
Customize	Show Operator Name
Time and Date	Dedicated Key
Set Home City	Call Setup
Set Time / Date	Caller ID
Set Format	Call Waiting
Auto Update of Date & Time	Call Divert
Language	Call Barring
Preferred Input Methods	Call Time Reminder
Display Settings	Call Time Display
Wallpaper	Auto Redial
Screen Saver	Network Setup
Power On Display	Network Selection
Power Off Display	Preferred Networks
Main Menu Style	GPRS Connection
Themes	IrDA
Greeting Text	Activation Menu
Contrast	

Storage Location
Security Setup
PIN Lock
Phone Lock
Auto Keypad Lock

Fixed Dial
Barred Dial
Change Password
Restore Factory Settings

Multimedia

Camera
Image Viewer
Video Recorder
Video Player

Photo Manager
Audio Player
Sound Recorder
Melody Compose

Fun

Java
Launch
Setting
Information
Java Setting
Java Audio
Java Vibration
Java Network
Free Data Space
Heap Size

Games
Start Game
Best Grades
Game Help
Game Setting
Game Music
Sound Effect
Game Vibration

Tools

Calendar
To Do List
Alarm
World Clock
Calculator

Unit Converter
Health
Stopwatch

Services

STK (depends on SIM)
WAP
Homepage
Bookmarks

Recent Pages
Enter Address
WAP Push
Settings

Data Account
GSM
GPRS

File Manager 

