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Important Information

Read this information before you start using your phone

Conditions of Use

Operation of this NEC mobile phone is subject to the following two conditions;

(1) this device may cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This NEC mobile phone generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the device on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

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

However, the user of wireless radios may be restricted in some places or situations, such as aboard airplanes. If you are unsure of restrictions, you are encouraged to ask for authorization before turning on the wireless radio. Several restrictions and cautions of using mobile phone are listed in the *Safety and Precautions* in the next chapter.

FCC RF Exposure Information

In August 1996 the Federal Communication (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previous set by both U.S and international standards bodies.

The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-worn Operation

This device was tested for typical body-worn operations. To comply with FCC RF exposure requirements, a minimum separation distance of 0.6 inches (1.5 cm) must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with FCC RF exposure requirements and should be avoided.

For more information about RF exposure, please visit the FCC website at www.fcc.gov.

Declaration

The product was shown to meet the requirements of the R&TTE Directive through third party tests to harmonized standards.

Hereby, *Quanta Computer Inc.*, declares that this NEC mobile phone is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Safety and Performances

Emergency services

To make an emergency call in any country

- Press **112**

Ask the operator for the service which you require: Police, Ambulance, Fire Brigade, Coastguard or Mountain Rescue Services. Give your location and, if possible, remain stationary to maintain phone contact. The 112 emergency number service is available on every digital network service. The number 999 is an alternative emergency number for UK only, and can only be used with a valid SIM card.

● *Due to the nature of the cellular system, the success of emergency calls cannot be guaranteed.*

General Care

A cellphone contains delicate electronic circuitry, magnets, and battery systems. You should treat it with

care and give particular attention to the following points.

- Do not allow the phone or its accessories to come into contact with liquid or moisture at any time.
- Do not place anything in the folded phone.
- Do not expose your phone to extreme high or low temperatures.
- Do not expose your phone to naked flame, cigars or cigarettes.
- Do not paint your phone.
- Do not drop or subject your phone to rough treatment.
- Do not place the phone alongside computer disks, credit cards, travel cards and other magnetic media. The information contained on disks or cards may be affected by the phone.
- Do not leave the phone or the battery in places where the temperature could exceed 60 degrees Celsius; e.g. on a car dashboard or on a window sill, behind glass in direct sunlight, etc.
- Do not remove the phone's battery while the phone is switched on.
- Take care not to allow metal objects, such as coins or key rings, to contact or short-circuit the battery terminals.
- Do not dispose battery packs in a fire. Your phone's Li-ion batteries may be safely disposed at Li-ion recycling points. For more specific battery and power supply information.
- Do not put your phone's battery in your mouth as battery electrolytes may be toxic if swallowed.
- Do not attempt to dismantle the phone or any of its accessories.
- This equipment is fitted with an internal battery that can only be replaced by a qualified service engineer.

● There is a risk of explosion if the battery is replaced by an incorrect type. Disposal of used battery must be in accordance with the manufacturer's instructions.

● Using any battery pack, AC adapter or Vehicle power adapter (option) not specified by the manufacturer for use with this phone creates a potential safety hazard.

● The earpiece may become warm during normal use and the unit itself may become warm during charging.

● Use a damp or anti-static cloth to clean the phone. Do NOT use a dry cloth or electrostatically charged cloth. Do not use chemical or abrasive cleaners as these could damage the casing.

● Recycling: the cardboard packaging supplied with this phone is ideal for recycling.

● Do not leave the battery pack empty or disconnected for a long time, otherwise certain data may be initialized.

● Your phone contains metal which may cause itching, rashes or eczema depending on your constitution or physical condition.

Take care not to put your phone in the back pocket of your trousers or skirt and then sit on it. Also, do not put your phone at the bottom of a bag which may be subjected to excessive weight or pressure. Doing so may damage the LCD and camera lens and cause them to malfunction.

Aircraft safety

● Switch off your cell phone and remove its battery when inside or near the aircraft. The use of cell phones in the aircraft is illegal. It may be dangerous to the operation of the aircraft and may disrupt the cellular network.

Failure to observe this instruction may lead to suspension or denial of cell phone service to the offender, or legal action, or both.

● Do not use your phone on the ground without the permission of the ground crew.

Hospital safety

● Switch off your phone in areas where the use of cell phones is prohibited. Follow the instructions given by the respective medical facility regarding the use of cell phones on their premises.

General safety

● Observe "Turn off 2-way radio" signs, such as those near stores of fuel, chemicals or explosives.

● Do not allow children to play with the phone, charger or batteries.

● Small parts are included in your phone. Keep them out of reach of small children, for whom it could cause a choking hazard.

- The operation of some medical electronic devices, such as hearing aids and pacemakers, may be affected if a cell phone is used next to them. Observe any warning signs and manufacturer's recommendations.
- If you have a weak heart, you should take extra precautions when setting functions such as the Vibrator and Ring tone volume functions for incoming calls.
- If you set the Vibrator setting to anything other than OFF, be careful that the phone is not near a source of heat (e.g. a heater) and that it does not fall from a desk due to the vibration.

Road safety

- You MUST exercise proper control of your vehicle at all times. Give full attention to driving.
- Observe all the recommendations contained in your local traffic safety documentation.
- Pull off the road and park before making or answering a call if driving conditions so require.
- You MUST NOT stop on the hard shoulder of a motorway to answer or make a call, except in an emergency.
- Switch off your cell phone at the refueling point, such as a petrol station, even if you are not refueling your own car.
- Do not store or carry flammable or explosive materials in the same compartment where a radio transmitter is placed, such as a cell phone.
- Electronic vehicle systems, such as anti-lock brakes, speed control and fuel injection systems are not normally affected by radio transmissions. The manufacturer of such equipment can advise if it is adequately shielded from radio transmissions. If you suspect vehicle problems caused by radio transmissions, consult your dealer and do not switch on your phone until it has been checked by qualified and approved installers.

Vehicles equipped with an air bag

An air bag inflates with great force. Do not place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. Improper installation of wireless equipment in vehicle could result in serious injury when the air bag inflates.

Third party equipment

The use of third party equipment, cables or accessories, not manufactured or authorized by NEC, may invalidate the warranty of your cell phone and also adversely affect the phone's operation. For example use only the NEC mains cable supplied with the AC charger.

Service

The cell phone, batteries and charger contain no user-serviceable parts. We recommend that your NEC cell phone be serviced or repaired by an NEC authorized service center. Please contact your Service Provider or NEC for advice.

Non-ionizing radiations

The radio equipment shall be connected to the antenna via a non-radiating cable (e.g. coax). The antenna shall be mounted in a position such that no part of the human body will normally come into contact with any part of the antenna unless there is an intervening metallic screen, for example, the metallic roof.

Use only an antenna that has been specifically designed for your phone. Use of unauthorized antennas, modifications or attachments could damage the mobile phone and may violate the appropriate regulations, causing loss of performance and radio frequency (RF) energy above the recommended limits.

Efficient use

For optimum performance with minimum power consumption, please note the following:

- Your phone has the internal antenna. Do not cover part of the internal antenna of the phone with your hands. This affects call quality, may cause the mobile phone to operate at a higher power level than developed by independent scientific organizations such as ICNIRP (International Commission on Non-Ionizing Radiation Protection) through periodic and through evaluation of scientific studies. The limits include a substantial safety margin designed to assure the safety of all persons, regardless of age and health, and to account for any variations in measurements.

* Examples of radio frequency exposure guidelines and standards that your phone is designed to conform to:

- ICNIRP, *Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)-International Commission on Non-Ionizing Radiation Protection (ICNIRP)*, Health Physics, vol. 74.pp, 494-522, April 1998.

- 99/519/EC, Council Recommendation on the limitation of exposure to the general public to electromagnetic fields 0 Hz-300 GHz, Official Journal of the European Communities, July 12, 1999.

- ANSI/IEEE C95.1-1992. *Safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300 GHz.* The Institute of Electrical and Electronics Engineers Inc., New York, 1991.
- FCC Report and Order, ET Docket 93-62, FCC 96-326, Federal Communications Commission (FCC), August 1996.
- Radio communications (Electromagnetic Radiation Human Exposure) Standard 1999, Australian Communications Authority (ACA), May 1999.

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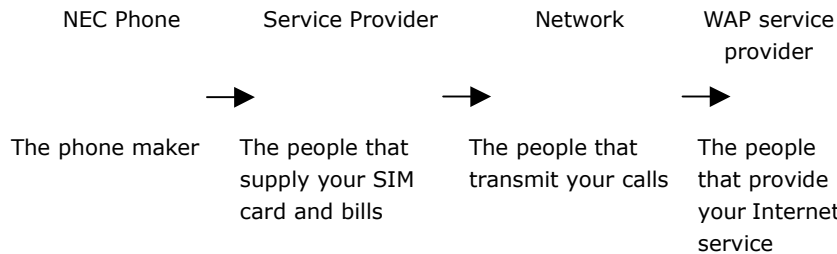
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For the purpose of empowerment, the specifications for this product and its accessories are subject to complete or partial change without prior notice.

Before you Start

Phone system structure

When you are using your phone, several elements are involved to provide you successful telecommunication:



Your phone supports all the features described in this user manual. However, for all these features to work, you must have a valid SIM card (supplied by your service provider) that also supports these features. If the network that transmits your calls does not support a certain feature, the feature will not work even if you have a fully featured SIM card. This last point is especially important when you are roaming networks.

User Guide Legends

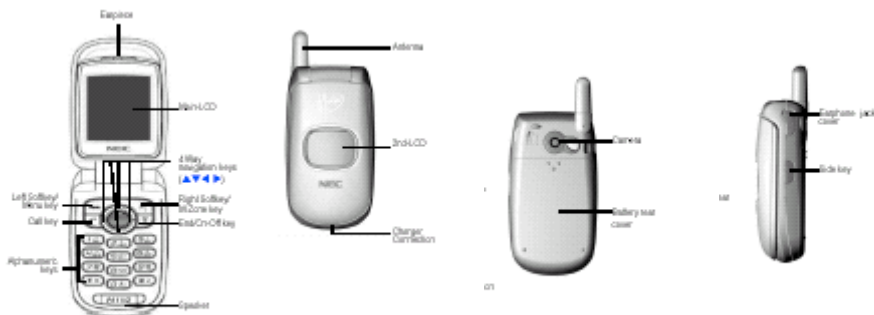
This type of paragraph contains details of where to find related information to the topic being explained.

This type of paragraph contains information worth noting.

This type of paragraph contains important information.

Parts and functions

When you are using your phone, several elements are involved to provide you successful telecommunication:



Display information

Main LCD graphic display area

This area contains the greetings graphic on power up, status graphics, as well as information when searching for networks and making calls. The standby screen shows the current network, vibrator status, current active mode, current time and date and whatever you have keyed using the phone's keypad.

Status icon area

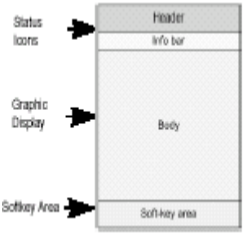
This area contains icons that indicate battery strength, new SMS or MMS messages received, new voice mail or WAP messages received, whether GPRS is activated, connection status, network signal strength etc.

Help and soft key area

Depending on the current mode, this area contains applicable information or context dependent softkey functions. When "Menu" is displayed above the LSK area of the Main-LCD, press **LSK** to access the available options under "Menu".

Mini LCD display

The 2nd-LCD graphic display area works as your second display that provides you with information even when the phone is folded and closed. You can also change the clock display on the 2nd-LCD. (See page 39 for details on 2nd-LCD setting).



The title of the selected options will be displayed in the header.

Key functions

The following describes the key functions of the navigation keys and left/RSKs and power key of your phone:

- ▶ navigation key Press to scroll left or move the cursor to the left of the screen. Also serves as a shortcut key to **Dialed Calls** menu from the standby screen.
- ▶ navigation key Press to scroll right or move the cursor to the right of the screen. Also serves as a shortcut key to **My document** menu from the standby screen.
- ▲ navigation key Press to scroll up or move up the cursor. Also serves as a shortcut key to **Phone modes** menu from the standby screen.
- ▼ navigation key Press to scroll down or move down the cursor. Also serves as a shortcut key to **Complete Phonebook** menu from the standby screen.
- Power key** Press to turn on/off the phone or to return to the standby screen.
- LSK** Press to launch browser on standby screen or press to activate the function displayed on the screen directly above it (bottom left of the screen).
- RSK** Press to activate the function displayed on the screen directly above it (bottom right of the screen). Also serves as a shortcut key to **Message** menu.

The phone will return to standby mode when Power key is pressed, but not when the phone is in the following functions: PC sync, camera, SMS/MMS/JAVA editor, **MFE (Multi-filed editor)**, call control, etc.

Main menu

The menu structure of your phone stats with the Main Menu icons can be displayed by press power key/ LSK from the

1. Settings Phone settings allow you to customize your phone. See page XX for details.
2. Message Messaging function allows you to send/receive SMS/MMS. See page XX for details.
3. Java™ Provides access to Java™. See page XX for details.
4. T-Zone Provides access to T-zone WAP page. See page XX for details.
5. Get more
6. Phonebook Displays, adds, and edits the list of phonebook entries. See page XX for details.

- 7. IM **Under construct!**
- 8. Tools Include functions such as My document, Camera, Organization, Clock, Calculation, Composer, Voice memo and PC sync. See page XX for details.
- 9. Camera Allows you to take a picture. See page XX for details.

Option menu operation example

Changing of the phone modes using the option menu is carried out as follows:

Changing of the phone modes using the Option menu is carried out as follows:

- From the standby screen, press ▲ key.
- Press LSK to access the Option menu for Phone modes.
- Select Activate to activate the phone mode, or Change settings to edit the phone mode settings.

Keypad shortcuts

Functions available when you press the following keys from the standby screen:

- Press the ◀ navigation key to access Dialed calls.
- Press the ▶ navigation key to access My document.
- Press the ▲ navigation key to access Phone modes.
- Press the ▼ navigation key to access Phonebook.
- Press LSK to launch Browser.
- Press RSK to access Message.
- Press and hold ▲ navigation key to switch on/off all signal tones.
- Press and hold 0 to enter + when making an international call.
- Press and hold 1 to call the Voice mailbox center.

Main phone features

Update with Specification

Display icons for Main-LCD

Display icons for 2-ed LCD

Overview of menu function

Getting Started

Your phone is equipped with a battery and a charger. Other optional accessories can customize your phone for maximum performance and mobility. All the features described in this user guide are supported by your phone.

For all the features to work, you must have a valid SIM card (included in the package supplied by your service provider) that also supports these features. Even if you have a fully featured SIM card, any feature not supported by the network transmitting your call will not work. This last point is especially important when you are roaming among networks.

Before you attempt to use your phone, check that you have:

- A valid SIM card inserted in the phone
- Fully charged battery

Service activation

Before you can use your new NEC phone, the service must be activated by your service provider. Please contact your local service provider regarding phone activation.

Voice mail messaging and text messaging

Voice mail messaging and text messaging services, when available, are provided by your service provider. Before you can receive voice or text messages with your phone, you must subscribe to these service options. Contact your service provider for information on the availability and setup of these services.

Phone password

When your service is activated, a 4-digit PIN is programmed into the SIM. The PIN locks and unlocks your phone, and provides access to restricted phone settings. Check with your service provider for additional information on your security PIN.

SIM card

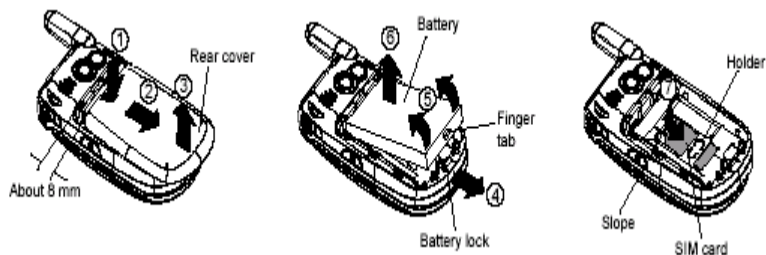
Before using your phone, you must sign-up/register with a wireless network service provider to receive a personal SIM (Subscriber Identity Module). The SIM card contains a computer chip that keeps track of your phone number, the services included in your subscription, and your SIM phonebook information. It is stored in a recess in the battery compartment.

The phone is unusable (except for emergency calls) until a valid SIM card is inserted. It is possible to transfer your SIM card to another compatible phone and access your network services. Your phone will display a warning message if the SIM card is not inserted properly.

Inserting the SIM card

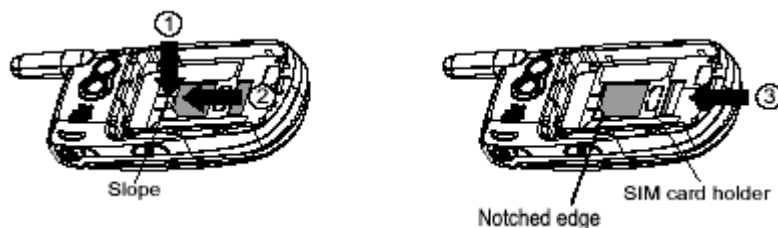
Before inserting the SIM card, make sure the power is switched off.

1. Press down the rear cover.
2. Slide the rear cover about 8 mm in the direction indicated by the arrows.
3. Remove the rear cover.
4. Unlock the finger tab from the battery lock.
5. Lift the battery holding both corners shown by the arrows.
6. Remove the battery to reveal the SIM card holder.
7. Slide the SIM card in the direction shown in the diagram. Make sure that the SIM card is fully inserted in the holder.



Removing the SIM card

1. With the battery removed, press on the slope.
2. While pressing the slope, slide the SIM card so that its notched edge is on the slope.
3. Stop pressing the slope and push to slide the SIM card in the direction of the arrow.



If the phone or the SIM card is lost or stolen, you should contact your service provider immediately in order to prevent unauthorized use.

Be sure to turn the phone off before inserting and removing a SIM card. Otherwise, damage to the SIM card can occur.

The SIM card contains personal data such as your electronic phonebook, messages, as well as details of the network services you have subscribed to. The phone will not work (except for emergency calls on some networks) unless a valid SIM is inserted.

Do not bent or scratch your SIM card.

If the SIM card is not fully inserted when the battery is replaced, damage to the SIM card can occur.

If the SIM card is already inserted, See "Powering on the phone" on page XX.

Charging the battery for the first time

Your phone is powered by a rechargeable battery. A new phone battery must be fully charged before using your phone for the first time.

- Before attempting to use your phone, insert the phone's battery.

Place the battery terminal end towards the hinge of the phone. Lower the battery towards the phone to lock into place and slide back the rear cover until you hear a click (see right).

- Connect the NEC battery charger supplied with your phone to a suitable main power socket.
- Connect the charger plug into the connector at the base of the phone (see right).
- Check that the charging battery icon is displayed and that the battery icon glows red intermittently. Leave the phone charging until the light goes off to ensure that the battery is fully charged.

Checking the battery

The battery charge indicator shows the approximate charge level of the battery while the phone is in use and not being charged.

- Check the icon at the top right corner of the screen.

The blocks on the display show the charge status of your battery pack.

Full battery power

Partial battery power

Low battery power

Battery empty1 (red)

Low battery indication

When the battery voltage fails below the working level, a message "Battery is low" will be displayed along with an empty battery icon on the top right corner of the screen. When displaying battery low notification, the phone also emits a short alert tone. Once these indicators are observed, the phone battery has approximately one minute of use remaining. After which, the phone powers off automatically.

Charging the battery

The charger unit begins to restore the battery power when it is connected to the phone.

- Connect the charger plug to the connector at the base of the phone (see right).

- Check that the battery icon is displayed and the screen is lighted up.

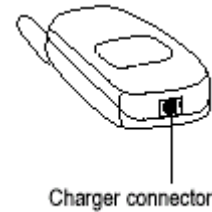
During charging, the charging battery icon is displayed and the screen continues to be lit (even when the phone is turned off).

When charging is complete, the light goes off.

If you need to make or receive calls, the phone can be switched on while it is charging, although the total time taken to charge will be increased.

The phone is designed to be charged with NEC equipment listed with the specifications of your phone.

DO NOT connect a charger or any other external DC source if the phone's battery is not inserted.



When disconnecting the charger, hold and push the plug upwards/downwards or pull the plug, not the cord.

Using any battery pack or AC adapter not specified by NEC for use with this phone may be dangerous and may invalidate any warranty and approval given to the phone.

Do not leave the charger connected to the power supply when it is not in use.

Do not try to charge the battery if the temperature is below 5°C (41F) or above 35°C (95F).

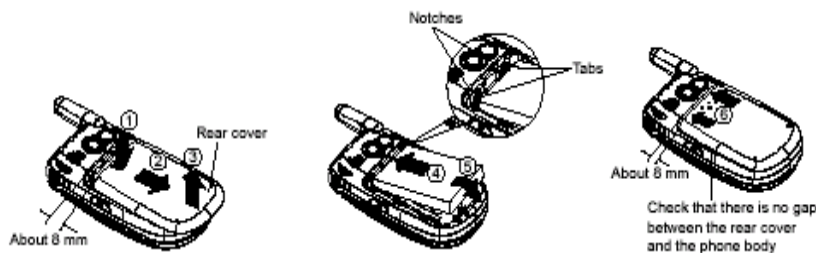
Please charge the battery as much as possible when the battery is very low.

You are recommended to switch off the phone while charging. If you need to receive calls, your phone can be switched on and left in standby while being charged, although the total time taken to charge is then increased.

Changing the battery

Make sure the phone is switched off. Some settings, stored numbers, and messages may be lost if the battery is removed while the power is on.

1. Press down the rear cover.
2. Slide the rear cover about 8 mm in the direction indicated by the arrows.
3. Remove the rear cover.
4. Put the new battery into place in the direction indicated by the arrow, making sure that the tabs of the battery fit properly into the notches in the phone.
5. Lower the battery towards the phone to lock into place.
6. Place the rear cover about 8 mm away from the end with the notches and slide the rear cover in the direction indicated by the arrows until a click is heard.



The greetings message may not be as indicated if any locks have been set or the wrong SIM has been inserted.

When you switch off and switch on your phone, the data in the phonebook list and Messages folder will take some time to initialize before they can be properly displayed.

The phone supports a number of languages and the keyboard symbols have been chosen for worldwide operation.

Powering on the phone

Switching the phone on

Press and hold power key for at least two seconds to switch on.

The screen is either blank, displays an animation, or displays a greetings message during the powering on process. After the powering on process, the phone displays the standby screen.

You may need to enter your PIN code or password.

Switching the phone off

Press and hold power key for at least two seconds to switch off.

Basic calls and Phone use

You can make a call in the same way as a normal push-button phone. Press **call** key after entering the area code and phone number.

Dialing calls

- Enter the phone number in the standby screen and check the number on the display.
- Press call key to dial the call.
- To end the call at any time, press power key to return to the standby screen. During the call, the screen displays either the phone number dialed and a connection graphic, or the name and picture ID of the called party if they have been previously allocated to the number dialed.

The number dialed and its related information will be stored in the Dialed calls list.

Each time a call is made after the Dialed calls list is full, the oldest call information will automatically be replaced by the latest call made and be placed at the top of the list.

Accessing the dialed calls list

- Press call key to access the Dialed calls list.

Highlight the number to be dialed by pressing the up and down navigation keys and press call key to start dialing.

- Press LSK to display the Option menu for the Dialed calls list. Select to either Extract number, Copy to... the phonebook, Delete the individual number or Delete all the numbers in the call list.

Accessing the other dialed lists

Press call key and the R and L navigation keys to access Received calls and Missed calls.

Use the full STD area code even if you are calling to a person in the same town.

Ending a call

Press power key or close the phone flap. The phone returns to the standby screen.

If you hold down power key, your phone will be switched off.

Receiving calls

When you receive a call:

The phone rings (if ring tone is set to ON).

The number of the calling party may be displayed on the screen if the caller has activated calling line identification.

- The calling party's number along with the name and caller ID picture may be displayed if the caller's information is already stored in the phonebook.

If the caller has withheld his/her caller ID, the message "Restricted" is displayed to show that the number is being withheld. If the network service provider cannot identify the number, the message "Unknown" is displayed to show that number is not known.

Accepting a call

- Press call key.

Rejecting a call

- Press power key or RKS or close the flap of your phone. The call will be transferred to the voice mailbox automatically.

You can also choose to put your calls on hold or to activate Call waiting or Call diversion. These options are dependent on your network and subscription plans with your local mobile service provider.

If a call is received but not answered, the screen will display the caller's telephone number (and the name if it was previously saved in the phonebook). This information is stored in Missed calls.

Information of received and answered calls are stored in Received calls.

When your phone is receiving MMS, the incoming call signal may be ignored. The caller may be notified that the line is currently unavailable.

You can set your phone to answer a call by pressing any key except power key. See "Answer options" on page XX.

If you are making a call, the phone gives priority to receiving a call unless you have already pressed call key. Calling line identification is subscription dependent. If you have subscribed to the service and the caller has allowed his number to be transmitted over the network, the number of the caller or the corresponding name

Using handsfree

Insert the handsfree to the earphone jack at the side of the phone. When there is an incoming call:

- Under auto answering mode, the call will be connected automatically.
- Under manual answering mode, press send key to connect the call.

Placing a call on hold

You can place a received or dialed call on hold by pressing RKS. Press RSK again to return to the call.

If a call is received but not answered, the caller's information is stored in Missed calls.

To return to a missed call:

Press Power key to return to the standby screen. Select Phonebook > Call options > Missed calls from the main menu.

Alternatively, press Call key to access the Dialed calls list and press R navigation key to display Missed calls.

Making a second call

Dial the second call while on the first call. This will put the first call on hold.

- To toggle between the first and second call, select Swap by pressing RSK.
- To end the active call, press power key.

Receiving a second call (subscription dependent)

You can answer a second call while already on the first call if you have subscribed to Call waiting service. Your phone will emit a tone to alert you if there is a second incoming call.

- To accept the second call, press call key to put the first call on hold and answer the second call.
- To toggle between the first and second call, select Swap by pressing RKS.
- To end the active call, press power key.

Making multi-party calls (subscription dependent)

You may hold a conversation with up to two parties at the same time in a conference.

- Make a call to the first party. When it is connected, proceed to dial the second call to the next party. The first call is put on hold.
- When the second call is connected, press LSK to select Menu, then highlight Conference and press LSK.
- The first and second party is now connected.
- To split the call, press LSK to select Menu, then highlight Split and press LSK.
- Highlight any number on the list and press LSK and the call will be split.
- To end the multiparty call, press key.

Multi-party call facilities are SIM card and network dependent.

Unsuccessful calls/Auto redial

With Auto redial activated, your phone will redial a number up to 10 times if the first attempt is not successful.

When a dialed number cannot be connected, a tone is heard and an alert message will be shown on the display. The phone returns to the standby screen and the number will be automatically dialed again after a short delay. The phone will try to redial the number up to 10 times. Failure to connect a call might be due to network problems or if the party you are calling is busy or engaged.

To end a redial attempt, press RSK.

To redial the last number you have made, press call key twice.

Call features

Fast dial

Fast dials can be activated in the Abbreviated Dialing Numbers by entering a number between 1 to 255 (depending on your SIM card) and pressing #. The phone details that correspond to the record number will be displayed. Press key to dial.

Each phonebook entry will be saved either in the SIM card or Phone.

Voice mail

Most mobile service providers offer this external voice mail service to their subscribers. The voice mail function enables you to divert received calls to a voice mail center where callers can leave voice messages in the voice mailbox under the following circumstances:

- if your phone is switched off or is not able to receive signals;
- if you did not answer the call;
- if you are currently on the phone and did not activate Call waiting.

You will be notified of a voice mail message by an icon in the standby screen. If voice mail service is not included in your mobile service provider's package, you will have to subscribe to the service separately and configure the settings manually. The voice mail service is network dependent. Contact your mobile service provider for more details regarding your voice mail number.

To set the voice mailbox number

From the main menu, select Phonebook > Lists, then press R navigation key until the Voice mailbox screen is displayed.

Highlight Number: and press LSK to edit the voice mail number. Press LSK to confirm and return to the Voice mailbox display screen.

To retrieve a voice mail

Use the down navigation key to highlight Voice mailbox and press LSK to call the voice mail center.

To divert a received call to the voice mail center

Make sure the correct voice mail mailbox number is set beforehand. When you receive a call you wish to divert, press power key or RSK to divert the call to the voice mail center.

Volume control

To adjust the earpiece volume during a call, use the up navigation key to increase volume and the down navigation key to decrease volume.

The Voice mail service is SIM card and network dependent. Contact your service provider for details on your voice mail number.

Alternatively, press and hold 1 in the standby screen to call your Voice mailbox directly.

Call options

From the main menu select Phonebook > Options to access this function.

A quick way to view received and dialed calls list from the standby screen is to press call key and scroll to the respective lists by R and L navigation key.

Call lists

There is a total of 3 call lists in your phone's memory:

1. Dialed calls
2. Missed calls
3. Received calls

From the main menu, select Phonebook > Call options.

- Press 1 for Dialed calls, 2 for Missed calls and 3 for Received calls.

In the Dialed calls list, press LSK to display the Option menu. Use the up and down navigation keys to highlight an option in the list and press LSK on the following menus:

- Extract number to display the phone number. Press LSK to display a new phonebook entry screen.
- Copy to... to store the number in the SIM/Phone phonebook.
- Delete to delete the number.
- Delete all to delete all the numbers in the list.

Dialed calls

The Dialed calls screen will display the date and time of the last 15 calls made on your phone.

- From the main menu, select Phonebook > Call options > Dialed calls.

Press RSK to return to Call options screen.

Time/charge

The Time/charge screen will display the duration and costs of the different types of calls made from your phone.

- From the main menu, select Phonebook > Call options > Time/charge.
- Use the up and down navigation keys to highlight and press LSK to view the time/charge information for the following: Last call, All voice calls, Total incoming, Total outgoing and Cost left. You can press RSK to Reset the calls counter or LSK to return to the Time/charge screen.

Charge settings

The Charge settings feature enables you to set a limit in units so your phone cannot be used once the limit is reached.

From the main menu, select Phonebook > Call options > Charge settings.

- Select Currency to edit the unit price of each call.
- Select Cost/unit to set the cost per unit and per min. You will have to enter your PIN2 before changes can be made.
- Select A/c limit to edit Display credit and Max cost. You will have to enter your PIN2 before changes can be made.
- Select Auto display to toggle On/Off the display of call duration and charges after each call is made. When this function is activated, a tick will appear in the check box.

Personalizing settings

You may customize your phone from the following settings. From the main menu, select Settings. And you may see Phone, Phone modes, Display, Calls, Security, Network, T9® input, and Reset settings. Under Phone option, there are:

Voice volume

To adjust the volume during a call, use the up navigation key to increase volume and the down navigation key to decrease volume.

When you are not making any calls, use the following procedure:

- From the main menu, select Settings > Phone > Voice volume to display the voice Volume screen with a volume slider.
- Use the up/right navigation key to increase, or use the down/left navigation key to decrease the volume to the required level.
- Press LSK to save the current setting and return to Phone menu.
- Press RSK to reject any volume changes and return to Phone menu.
- Press power key to reject any volume changes and return to the standby screen.

Answer options

Your phone allows you to select one or more of the following three answer modes:

- Any key answer
- Fold answer
- Ring silencer

Any key answer

When this feature is enabled, you can answer an incoming call by pressing any key except power key.

- From the main menu, select Settings > Phone > Answer options.
- Highlight Any key answer and press LSK to toggle Any key answer On/Off. A tick will appear in the check box beside the option.
- Press RSK to accept changes and return to the Phone menu.

Fold answer

When this feature is enabled, your phone allows you to answer a received call when you flip the phone open.

- From the main menu, select Settings > Phone > Answer options.
- Highlight Fold answer and press LSK to toggle Fold answer On/Off. A tick will appear in the check box beside the option.
- Press RSK to accept changes and return to the Phone menu.

Ring silencer

When this feature is enabled, the phone is switched to silent mode.

- From the main menu, select Settings > Phone > Answer options.
- Highlight Ring silencer and press LSK to toggle Ring silencer On/Off. A tick will appear in the check box beside the option.
- Press RSK to accept changes and return to the Phone menu.

Minute reminder

From the main menu, select Settings > Phone > Minute reminder.

Use the R and L navigation keys or press the RSK to toggle the reminder On/Off. Use the " navigation key to move down to the next field to set a Timer for the reminder. Press LSK to save and return to the Phone Menu.

Side key

From the main menu, select Settings > Phone > Side key to toggle the Side key Enable/Disable by pressing LSK. A tick in the check box indicates that the Side key function has been activated.

Time/Date

You can access this function to set the time/date displayed in your phone and hence enable other related functions. For example: the alarm function. Use

Voice volume can also be adjusted by pressing the number key on the Volume screen.

This function cannot be used if your phone is folded and the Side key are locked.

You can also lock/unlock the Side key by pressing and holding LSK on the standby screen.

the following procedure to set the time and date:

Network time

- From the main menu, select Settings > Phone > Time/Date.
- Highlight Network time and press LSK to toggle Network time On/Off. A tick will appear in the check box beside the option.
- Press RSK to accept changes and return to the Phone menu.

Set time format

From the main menu, select Settings > Phone > Time/date > Set time format.

- Use the up and down navigation keys to highlight 12 Hour/24 Hour format. Press LSK to confirm the selection. The phone returns to the Time / date menu screen.

Set date format

From the main menu, select Settings > Phone > Time/date > Set date format.

- Use up and down navigation keys to highlight DD/MM/YYYY, DD.MM.YYYY, MM/DD/YYYY, MM.DD.YYYY, YYYY/MM/DD or YYYY.MM.DD format. Press LSK to confirm the selection. The phone returns to the Time/date menu screen.

ALS setup

If your SIM card supports Alternate Line Service (ALS), you can set which line to use for your phone:

- From the main menu, select Settings > Phone > ALS setup.
- Use the up and down navigation keys to highlight the desired line options.
- Press LSK to turn on the radio button for the highlighted option and return to the Phone menu.

FAK setting

FAK (Fast Access Key) is a shortcut to the major functions of the phone by simply pressing the key itself.

- From the main menu, select Settings > Phone > FAK setting.
- Use the up and down navigation keys to highlight the Fast Access Key (2 to 9) that you want to set up. Press LSK to select and display the Option menu for the list of functions.
- Use the up and down navigation keys to highlight the function to be assigned to the FAK and press LSK to confirm the selection (turns on the radio button) and return to the FAK setting display menu.
- To use FAK, press the number key and LSK from the standby screen.

Language

If the display is showing any language other than your own, use the following procedure:

- From the main menu, select Settings > Phone > Language.
- Use the up and down navigation keys to select the required language (Automatic/English/French/Spanish) and press LSK to confirm the selection and turn on the radio button. The phone returns to Phone menu screen.

Phone modes

You can set your phone to operate in any one of four modes in the Phone modes menu:

- Normal mode
- Meeting mode
- Pocket mode
- Car mode

Phone mode selection

From the main menu, select Settings > Phone modes. Use the up and down navigation keys to highlight a phone mode in the list. Press the LSK to display the Option menu. You can choose to either Activate the phone mode or to Change settings by pressing the LSK when your selection is highlighted.

Phone mode settings

ALS setup function is SIM card and network related and may only be available from your mobile service provider.

You can also press the number key from the standby screen, press LSK twice and select the function to allocate for the number key.

When you have changed the display language, please wait until the new setting becomes effective.

If you select Automatic, the language specified in your SIM card or the default language is automatically selected.

Alternatively, press up navigation key to display the Phone modes menu from the standby screen.

Any changes made to the Ringer setting options in a phone mode are stored and used when

When a phone mode is selected, some of your phones settings will be altered according to the selected phone mode. The phone functions that can be altered include:

- Ringer setting (On/Off)
- Ringer (for Any call/Phonebook call/Alarm/Message/Group 1-10)
- Ringer volume (for Any call/Phonebook call/Alarm/Message/Group 1-10)
- Key tone (On/Off)
- Info tones (On/Off for Warning tone/Cell broadcast/Message sent)
- Vibrator (On/Off)
- Illumination (Off/LCD only/Key & LCD)
- Auto answer (On/Off, only available for the Car mode)

The following table shows the selections keys and default settings for each mode:

Phone mode	Normal mode	Meeting mode	Pocket mode	Car mode
Ringer setting	On	Off	On	On
Ringer	Default melody	Default melody	Default melody	Default melody
Ringer volume (a 1-5 scale)	4	1	4	5
Key tone	On	Off	On	On
Info tones	On	Off	On	On
Vibrator	On	On	On	Off
Illumination	Key & LCD	Key & LCD	Key & LCD	Key & LCD
Auto answer	Always off	Always off	Always off	On

Changing phone mode settings

To change the settings of a particular phone mode, use the following procedure.

With the standby screen displayed, press up navigation key or select Settings >Phone modes from the main menu.

Use the up and down navigation keys to highlight the phone mode you wish to change from the following:

- Normal mode
- Meeting mode
- Pocket mode
- Car mode

Press LSK to display the Option menu. Use the up and down navigation keys to highlight either Activate to activate the phone mode or Change settings to change the phone mode's settings, then press LSK. When you select Change settings, you can make the following changes:

Ringer setting

To change the ringer setting, highlight Ringer setting and press LSK to toggle Ringer setting between On (a tick appears in the check box) and Off (the tick disappears).

Ringer

To change the ring tone or melody, select Ringer to display the Ringer menu screen.

- Highlight the type of calls to change from the menu: Any call/Phonebook call/Alarm/Message/Group 1-10
- Press LSK to access the Sounds folder.
- Highlight the desired ringtone and press LSK to select and return to the Ringer menu screen.

Ringer volume

To change the ring volume settings, select Ringer volume to display the Ringer volume screen.

- Highlight the type of calls to change and press LSK to select: Any

that mode is selected again.

Use keys to move the highlight bar to the previous or next item in a list.

If the selected mode is Car mode, the backlight will always be turned on. This will reduce battery life.

To toggle an option On/Off: On (a tick is displayed in the check box beside the option) Off (the check box beside the option is empty)

call/Phonebook call/Alarm/Message/Group 1-10.

- The volume screen showing the level of ring volume is displayed. Use the up/right navigation key to increase or down/left navigation key to decrease the volume setting to the level required (the level bar moves in the direction corresponding to the key pressed).
- Press LSK to save the current ring volume setting or RSK to reject any ring volume changes.
- The phone returns to the Ringer volume screen.

Key tone

To change the Key tone settings, highlight Key tone and press LSK to toggle between On (a tick appears in the check box) and Off (the tick disappears).

Info tones

To change the Info tones settings, select Info tones to display the Info tones screen.

- Use the up and down navigation keys to highlight the type of Info tones you wish to change: Warning tone / Cell broadcast/ Message sent.
- Press LSK to toggle between On (a tick appears in the check box) and Off (the tick disappears).
- Press RSK to accept the changes and return to the previous Profiles menu.

Vibrator

To change the Vibrator settings, highlight Vibrator and press LSK to toggle between On (a tick appears in the check box) and Off (the tick disappears). This phone supports i-melody.

Illumination

To change the illumination settings, select Illumination to display the Illumination screen with radio button selections: Off, LCD only or Key & LCD.

- Use the up and down navigation keys to highlight your desired setting and press the LSK to confirm and turn on the radio button.

Auto answer

Auto answer option is only available for Car mode. The Auto answer feature allows a received call to be connected automatically if you are using your phone as a car phone or with a hands-free kit. To change the Auto answer settings:

- Highlight Auto answer and press LSK to toggle between On (a tick appears in the check box) and Off (the tick disappears).

Wallpaper

You can select an image file from Photos/Pictures folders to be displayed as a background to the standby screen.

To select the wallpaper and its style, use the following procedure:

- From the main menu, select Settings > Display > Wallpaper.
- Use the up and down navigation keys to highlight either Set wallpaper or Style. Press the LSK to enter each option.
- In the Set wallpaper display screen, select Photos/Pictures to display the folder for the selection of the desired wallpaper or select Off to set the background display off (a blank screen will be displayed at standby mode).
- With the Photos/Pictures folder displayed, highlight your desired wallpaper from the list. Press LSK to confirm the selection. Press power key to return to the standby screen. The selected wallpaper is displayed.
- In the Style display screen, select Fit to screen/Tile/Best fit/Center to confirm the selection of wallpaper display style. The radio button for the selected style is turned on.

Color style

You can select from the different color styles available in your phone:

- From the main menu, select Settings > Display > Color style.
- Use the up or down navigation keys to highlight a color style and press LSK to confirm the selection.

The Main-LCD menu screen will be displayed in the selected color style.

Animation

You can select one of the two available animations available in your phone:

- From the main menu, select Settings > Display > Animation.
- Use the up or down navigation keys to highlight either Animation 1 or Animation 2. Press LSK to confirm the selection.

Brightness

To alter the brightness of your phone's display screen, use the following procedure:

- From the main menu, select Settings > Display > Brightness.
- Use the up and down navigation keys to highlight the desired brightness level for your phone: Low/Medium/High/ Max.
- Press LSK to confirm the selection. The phone returns to the Display menu screen.

Contrast

To alter the contrast of your phone's display screen, use the following procedure:

- From the main menu, select Settings > Display > Contrast.
- Use the up/right navigation key to increase the contrast level or the down/left navigation key to decrease the contrast level until the screen reaches a suitable contrast level.
- Press LSK to save any contrast changes, or press RSK to reject any contrast changes. The phone returns to the Display menu screen.

2-nd LCD

The 2nd-LCD menu allows you to change the following settings:

Screen display

- From the main menu, select Settings > Display > 2nd-LCD > Screen display.
- Use the up and down navigation keys to highlight Normal mode/Clock mode and press LSK to confirm the selection and turn on the radio button.
- Press RSK to return to the 2nd-LCD settings screen.

Contrast

To alter the contrast of the 2nd-LCD screen, use the following procedure:

- From the main menu, select Settings > Display > 2nd-LCD > Contrast.
- Use the up/right navigation key to increase the contrast level or the down/left navigation key to decrease the contrast level until the 2nd-LCD screen reaches a suitable contrast level.
- Press LSK to save any contrast changes or press RSK to reject any contrast changes. The phone returns to the 2nd-LCD menu screen.

Calls

The Calls screen allows you to activate Call diversion, Call waiting, and Auto redial. From the main menu, select Settings > Calls.

Call forwarding

You may preset your phone to forward incoming calls to a specified phone number for the following conditions:

- Forward for all calls (All incoming calls to your phone will be diverted to the number you have specified)
- Not reachable (Calls will be diverted if your phone is switched off or is out of range for signals to reach)
- No reply (An incoming call will be diverted if the phone is not answered after the time period determined by the network. The period can be set to a maximum of 30 seconds in 5-second intervals)
- Busy (Call divert will be activated if you are in the middle of a call. If call waiting is activated, a call waiting tone can be heard during the call)
- Receiving fax (Divert all fax calls to a number with a fax connection)
- Receiving data (Divert all data calls to a phone number with a PC connection)

Note: The divert status and details that you have selected will be stored in the network and not in your phone. (e.g., the divert status will remain even when the SIM card is changed).]

There will be a short delay while the network sends the divert status of your phone.

There may be additional charge for this service depending on your network.

There may be unavailable settings depending on your network.

Only the call types supported by the Network are displayed on the

- Status check
- Cancel all
- All un-answer

Setting up call divert and editing the number

- From the main menu, select Settings > Calls > Call forwarding.
- Use the up and down navigation keys to highlight the desired condition to forward your incoming calls.
- Press LSK to display the Option menu.
- Highlight Set and press LSK to display the Divert to: screen.
- Enter or make necessary amendments to the phone number in which the calls will be forward to, or press LSK to choose a number from the phonebook.
- Press LSK to confirm the entered number. After a short pause, the network will confirm your setting.

Check call forwarding status for a condition or to disable call forward

- From the main menu, select Settings > Calls > Call forwarding.
- Use the up and down navigation keys to highlight the condition that you need to check.
- Press LSK to display the Option menu.
- Highlight Check status and press LSK for the network to transmit and display the status of the selected condition.
- To disable call divert for the selected condition, highlight Clear from the Option menu and press LSK to confirm.

Status check and cancellation of all call forwarding

Status check allows you to check the current divert status for all the different conditions.

- From the main menu, select Settings > Calls > Call forwarding > Status check. After a short pause, the network transmits and displays all the call forward status previously set. Cancel all call forwarding allows you to clear all call diverts that has been set previously.
- From the main menu, select Settings > Calls > Call forwarding > Cancel all. Press LSK to confirm or RSK to reject the cancellation.

Call waiting

Call waiting allows you to answer an incoming call during another call. A call waiting tone can be heard during the call to alert the user of another incoming call.

Setting call waiting On/Off

- From the main menu, select Settings > Calls > Call diversion > Call waiting.
- Select Active to set call waiting on.
- Select Cancel to set the call waiting off.

The setting is saved and a confirmation message from the network will be displayed.

Checking status of call waiting

- From the main menu, select Settings > Calls > Call diversion > Call waiting.
- Select Status from the menu. A message from the network will be displayed to indicate whether call waiting is activated or cleared.

Auto redial

The auto redial option allows your phone to re-dial an unsuccessful call up to 10 times. To set the auto redial on or off, use the following procedure:

- From the main menu, select Settings > Calls.
- Highlight Auto redial and press the LSK to toggle automatic redial On/Off. A tick in the check box beside the option indicates the activation of Auto redial.

Security

The security settings protect your phone from improper and unauthorized use.

current status screen.

These confidential numbers should be kept in a safe place for

You may be required to enter one of the following security codes as shown below. When the phone prompts you for one of these codes, use the keypad to enter the appropriate number and press LSK to confirm.

- PIN code (provided by your network to protect your SIM card if it is stolen)
- PIN2 code (provided by your network for charge information and FDN services protection)
- PUK/PUK2 code (respective personal unblocking code in case you forget the PIN/PUK code)
- Phone code (provided along with the phone and have to be entered at the first security setting)

If you forget any of these codes, ALWAYS contact your service provider as they are the ONLY source for your codes.

Change PINs

The PIN will be requested most of the times when the phone is switched on. This feature can be deactivated, at the risk of unauthorized usage of your phone. Some mobile service providers do not permit the deactivation of this control.

You can set up your phone to require your PIN code entered when the phone is switched on before the phone can be used and receive any incoming calls. If you entered your PIN code incorrectly for more than three times (not necessarily in the same session), you will have to contact your mobile service provider for a PUK code to unblock your SIM card.

To activate PIN

- From the main menu, select Settings > Security. Highlight PIN activate and press LSK to toggle PIN activate Enable/Disable. You will have to key in a PIN code for activation. A tick in the check box beside the option indicates that PIN activate has been activated.

PIN/PIN2/Phone code change

- From the main menu, select Settings > Security > Code.
- Select either Change PIN/Change PIN2/Chg. phone code.
- Key in the current code. You will be prompted to enter the new code when the correct current code is entered. Enter the new code again and press LSK to confirm the new code.
- A confirmation screen is displayed momentarily and the phone returns to Code display menu.

Phone lock

The Phone lock menu allows you to lock your SIM card from unauthorized usage. If Phone lock is On, SIM data can be accessed only when the correct PIN code is entered. To On/Off Phone lock, proceed as follows:

- From the main menu, select Settings > Security.
- Highlight Phone lock and press LSK to toggle Phone lock On/Off. A tick in the check box beside the option indicates that Phone lock has been activated. You will have to key in a Phone code to activate Phone lock.

Bar calls

This feature allows you to restrict the following type of calls made or received on your phone. You will need a 4-digit password provided by your mobile service provider to activate ring. You may have to register separately for each type of ring.

- All outgoing (All outgoing calls, except emergency numbers 112 and 999 will be barred)
- Outgoing international (International outgoing - Only calls within the home country can be made on the phone)
- Outgoing international except home (International outgoing without home country- International calls not permitted. However calls can still be made to your home country when you're abroad)
- All incoming (All incoming calls will be barred, including the forwarding of the calls to the mailbox)

future access, if required.

If the PIN2 code is entered incorrectly 3 times, you will need to contact your service provider for a PUK2 code.

The PIN codes and security codes are between 4 to 8 digits.

Your phone supports advanced features (e.g. FDN) that may require a PIN2 code to be entered before they can be accessed or modified.

The PIN2 code is SIM card related and may only be available from your service provider.

The Phone code is used to unlock the PIM functions and the default setting of the Phone code is 0000.

Call your service provider to activate international service options.

Before leaving your home country you should select preferences such as call block or call transfer. You will be charged for calls forwarded to you while you are roaming.

The FDN facility is network dependent.

- When roaming (You will not be able to receive calls when you are outside your home network. This means that no charges will be incurred for incoming calls)

To place restrictions on certain type of calls:

From the main menu, select Settings > Security > Bar calls. Use the up and down navigation keys to highlight the type of calls you want to restrict and press LSK to display the Option menu.

- Select Set to activate. You will be prompted to enter the bar password.
- Select Clear to disable ring for the selected type of calls. You will be prompted to enter the bar password.
- Select Check status for the network to transmit and display the ring status of the selected type of calls.

Change password

- To change the password for ring, select Settings > Security > Bar calls > Change password from the main menu. Enter the call barring password. You will then be prompted to enter a new password twice. Press LSK to confirm the password.

Status check

To check the status of calls barring for all the different types of calls, select Settings > Security > Bar calls > Status check from the main menu. After a short pause, the network transmits and displays all the ring status previously set.

Cancel all call barring

To cancel all rings previously set, select Settings > Security > Bar calls > Cancel all from the main menu. The password provided by your mobile service provider will be needed for this function. Press LSK to confirm or RSK to reject the cancellation.

Fixed dialing

This function allows you to restrict the use of dialed number to FDN only. To change the settings for Fixed dialing:

- From the main menu, select Settings > Security.
- Highlight Fixed dialing and press LSK to toggle Fixed dialing On/Off. You will have to key in the PIN2 code to display a message to activate/deactivate Fixed dialing. A tick in the check box beside the option indicates that Fixed dialing has been activated.
- Roaming allows you to use your phone in many parts of the world and to pay all charges through your home network Mobile Service Provider. Your network operator usually has agreements with named networks in other countries. The phone also allows you to set network preferences of your own. When dialing you will need to add the international access codes when required, so storing all numbers with the codes (such as 01 for the US) is helpful.

Network info

- From the main menu, select Settings > Network > Network info.
- Use the up and down navigation keys to highlight the network you want to connect to and press LSK to select. The screen will return to standby mode after a confirmation message is displayed.

Choose network

- From the main menu, select Settings > Network > Choose network. Press LSK to confirm. This will restart the network search that will be very useful if you are not on your home network or you need to register on a different network.
- Set automatic or manual network selection
- From the main menu, select Settings > Network.
- Highlight Auto network and press LSK to toggle the automatic network search On/Off. A tick in the check box beside the option indicates the activation of Auto network.

View/Edit/Delete network list

When "Automatic network" is activated, the network will be selected according to the ranking order in your Pref. network. You can manually select a separate network from the list of the GSM networks available.

- From the main menu, select Settings > Network > Pref. network to display the Pref. Network screen with Home Network information.
- Press LSK to display the list of networks you have added to your list. To edit this list, press LSK and select
- Insert or Add to end with LSK to display the Net operator screen, listing the major net operators.
- Use up and down navigation keys to highlight the net operator you wish to add to your list and press LSK to confirm adding it to your list. The phone returns to the Network menu screen.
- To delete a network from the list, select Settings > Network > Pref. network. Press LSK, highlight the network you wish to delete and press LSK again to display the Option menu. Select Delete to confirm the deletion.

Band

- From the main menu, select Settings > Network > Band. Use up and down navigation keys to highlight the required band and press LSK to select and turn on the radio button. The phone returns to the Network screen.
- The available bands are 900MHz; 1800MHz; 1900MHz ; 900/1800MHz; 900/1900MHz

Connectivity

- From the main menu select Settings > Network > Connectivity. For further details, please refer to page XX.

GPRS Info

- From the main menu, select Settings > Network > GPRS info. For further details, please refer to page XX.

Transfer rate

- From the main menu, select Settings > Network > Transfer rate. For further details, please refer to page XX.

T9@ Input

Please refer to page XX for details.

Reset settings

To revert your phone to its default factory settings, select Settings > Reset settings from the main menu and press LSK. Press LSK again confirm resetting or press RSK to abort resetting and return to Settings menu.

Before you manually select a network, ensure it is covered under the agreement you have with your mobile service provider. Before editing your pref. network, please contact and consult with your mobile service provider. Frequency bands must be adjusted to suit the location when roaming (Europe, U.S., etc.), for the phone to work properly.

Reverting to the default factory settings will NOT reset data in My document, Message and the Phonebook menu. If you have set the security code on your phone, you will be prompted to enter the security code in order to restore to factory

settings.

Text Entry

This section describes how you can enter text (letters, numbers and symbols). The same method of text entry can be used in all of the phone's editing display.

T9® Input

In the text entry screen, pressing the * key can change the text entry mode in the normal text input or when T9® is activated.

Pressing and holding the # key will toggle T9® input On/Off. The sequence of the entry mode is as follows:

Normal Text Input	T9® Input Activated
abc (All lower case)	T9® abc (T9® English)
Abc (Sentence case)	T9® Abc (T9® English)
ABC (All upper case)	T9® ABC (T9® English)
Numeric Input (123)	Numeric Input (123)
Pinyin (T9® Chinese input)	Pinyin (T9® Chinese input)
Stroke (T9® Chinese input)	Stroke (T9® Chinese input)

Chinese input always use T9.

SMS edit screen option menu

Press LSK in Edit mode when typing or editing SMS to display the Option menu. These options are available:

Inserting object

Highlight Insert object and press LSK to display the following options:

- Highlight Predefined sounds and press LSK to select built-in sound clips to be inserted into your message. Use up and down navigation keys to select the desired sound clip to be inserted and press LSK to confirm.
- Highlight Predefined animation and press LSK to select the animation icons to be inserted into your message. Use up and down navigation keys to select the desired animation icon to be inserted and press LSK to confirm.
- Highlight Own animations/Own pictures/Own sounds to select animations, tones, or pictures stored in the phone to be inserted into your message. Use up and down navigation keys to select the desired attachment and press LSK to confirm.

Text formats like Italics and Bold cannot be applied simultaneously to your messages.

Format

Highlight Format and press LSK to display the following options:

- Highlight Text format and press LSK to choose the following text formats for your message: Underline/Strikethrough/Italics/Bold or choose the desired Font (Mid font/Large font) for your text. Highlight your selection and press LSK to confirm. A tick appears in the corresponding check box beside the option. Continue with your selection and press the RSK to save the format settings and return to the previous Option menu.
- Highlight Text color and press LSK. Use up and down navigation keys to edit the Text color and Background color of your text message. In each highlighted field, use right and left navigation keys to choose the desired color for your message. Press LSK to save and return to the message.

T9® language

T9® preferred

To select whether to activate T9® input, use the following procedure:

- From the main menu, select Settings> T9® input. Highlight T9® preferred and press LSK to toggle T9® preferred On/Off. A tick in the check box indicates that T9® input has been activated.

T9® Chinese

To activate/deactivate the input methods for T9® Chinese, use the following procedure:

- From the main menu, select Settings > T9® input. Highlight T9® Chinese and press LSK to display T9® Chinese menu screen. Highlight T9 PinYin/T9 strokeS and press LSK to toggle the option On/Off. Once the selected Chinese input method is deactivated, you will not be able to use that input method when editing your message.

T9® English text input

Your phone supports T9® Text Input and will try to deduce the correct word by individually comparing the entered letters with an extensive in-built dictionary, enabling fast and intuitive text input.

For each letter to be keyed in, you will only need to press the number key corresponding to the alphabet once. The screen will display the word you may require based on the in-built English dictionary of the mobile phone. An example of is shown as follows:

- With the text entry screen displayed, press * key to switch to desired T9® English input case (T9® abc/T9® Abc/T9® ABC) before entering the word/sentence.

To enter the word *good*, press 4, 6, 6 and 3 then press 0 to complete the word with a spacing after the word.

- To enter *Peter is good*, press 7, 3, 8, 3 and 7 to display *Peter*, then press 0 to confirm.

- Press 4 and 7 to display *is*, then press 0 to confirm.

- Press 4, 6, 6 and 3 to display *good*, then press 0 to confirm. The sentence is now completed.

Other key functions

- 0: To insert a space and/or complete the word.
- LSK: To display other words with the same combination of letters (eg. words like home, gone and etc. can be formed by pressing the number keys 4, 6, 6, 3 and LSK).
- RSK: To delete the letter to the left of the cursor
- Left/Right navigation key: To move the cursor around and each of the words keyed will be highlighted.
- * key: To toggle the different modes of text entry.
- # key: To activate the symbol list; Press and hold to toggle T9® input On/Off.

Normal text input (ABC)

With the text entry screen is displayed, long press # key until the entry mode is Normal text (ABC) input.

Use number keys to enter letters. For example, to enter e, press 3 twice; to enter f, press 3 three times.

Other key functions

- 0: To insert a space.
- RSK: To delete the letter to the left of the cursor.
- Left/Right navigation key: To move the cursor around.
- * key: To toggle the different modes of text entry.
- # key: Press to activate the symbol list; Press and hold to toggle T9® input On/Off.

Numeric input

With the text entry screen is displayed, press * key until the entry mode is

Alternatively, you can

press

and hold the # key in the

text

entry screen to toggle

T9®

input On/Off.

Numeric input (123).

T9® chinese stroke

With the text entry screen displayed, press * key until the T9® Chinese stroke input is activated.

Press key 1 to 6 to add a stroke as shown on the keypad to be displayed in the editing screen stroke bar.

To select a word from the list of possible words, use the left and Right navigation keys to scroll through the same list, or use up and down navigation keys to get to the next page of the same list. Press the LSK to confirm selection for the word. In default component mode, the stroke component will display with dotted underline. When you select the component, it is copied to the stroke bar and a new list of possible words containing the radical is formed. After the selection of a word, the stroke bar automatically displays other possible words that may be associated with the displayed word.

T9® pinyin

With the text entry screen displayed, after entering the keys corresponding to the pinyin, use the call key to scroll through the pinyin bar to get to the pinyin of your desired word. Press * to toggle between the 4 intonations for the highlighted pinyin. To select a word from the list of possible words with the selected pinyin, use the left and right navigation keys to scroll left right in the same list, or use up and down navigation keys to get to the next list. Press the LSK to confirm selection for the word. After the selection of a word, the pinyin bar automatically displays other possible words that may be associated with the displayed word.

Message

From the main menu, select Message. Using this function, you can send and receive text messages with attached sound, image files, etc.

The following folders in the Message menu have the following functions:

- **Inbox:** The received messages are saved. (To enter, select Inbox from Message menu screen.)
- **Outbox:** The sent messages are saved and specified. (To enter, select Outbox from Message menu screen.)
- **Draft:** The edited messages are saved. (To enter, select Draft from Message menu screen.)

Message overview

Your phone supports the following messaging services:

- **SMS (Short Messaging Service)** allows you to send short messages (maximum of 160 characters). To send an SMS message, the desired phone number must be a mobile phone with an SMS service subscription. Long text messages (up to 1520 characters) can be transmitted and received via your phone. When long SMS messages are sent or received by the phone, they are automatically broken down into a series of short SMS messages. (Do take note of the higher charges for these long messages sent). Pictures and sounds can also be included inside the SMS.

- **MMS (Multimedia Messaging Service)** is a service that allows you to send messages with multimedia files attached. You can attach a sound file and an image file to an MMS message. When you receive an MMS message, you will be notified by a message from the MMS center. You can either automatically or manually receive the contents of an MMS message.

Message list screen options menu

The following options will be displayed when LSK is pressed in the message list (Inbox/Draft/Outbox) screen:

- **View** - Display the complete message, containing detailed information of the message such as the date, time and sender's details. If the highlighted message is a notification message, viewing it will download the MMS contents (MMS only).
- **Reply** - Display the SMS Edit screen to type a message to reply to the sender (available for Inbox only).
- **Reply via MMS** - Display the MMS Edit screen to compose a message to reply to the sender (available for Inbox only).
- **Reply all** - Display the MMS Edit screen to compose a message to reply to the sender and receivers in the To and Cc & Bcc list of the received MMS. (available for Inbox and for MMS only)
- **Forward** - Display the Edit screen for the forwarding of the message. (available for Inbox only)
- **Delete** - Delete the displayed message.
- **Delete all** - Delete all the messages in the current folder.
- **Call sender** - Directly call the number who sent you the message.

To select an option, highlight the option and press LSK.

Message display screen options menu

When a received message (Inbox/Draft/Outbox) is displayed, press LSK to access the following options:

- **Delete** - Delete the displayed message.
- **Reply** - Display the SMS Edit screen to type a message to reply to the sender.(available for Inbox only)
- **Reply via MMS** - Display the MMS Edit screen to compose a message to reply to the sender.(available for Inbox only)
- **Reply all** - Display the MMS Edit screen to compose a message to reply to the sender and receivers in To and Cc & Bcc list of the received MMS.(available in Inbox and for MMS only)
- **Forward** - Display the Edit screen for the forwarding of the displayed

Alternatively, you can press RSK to access the Message menu directly from the standby screen.

When the storage memory is full, your sent messages will not be stored in the Outbox.

Depending on the type of message you are viewing, the available options menu may change.

This number indicates the size of the message equivalent to the number of SMS messages (maximum of 10).

The Short Messaging Service and linking of SMS messages are network dependent.

Please review message only after your phone has received the whole series of SMS/MMS. When the phone has not finished receiving the long message, there will be a popup notification that the message is incomplete and it cannot be viewed.

If you receive a message at the same time the alarm is due to ring, you will not receive any

message (available for Inbox only).

- Detail - Display the date, time and sender's information.
- Extract number - Extract the number to save in the phonebook if it is not already saved (available for Inbox only).
- Extract URL - Access the hyperlink attached to the message (available for Inbox only)
- Call Sender - Directly call the number who sent you the message.

To select an option, highlight the option and press LSK.

SMS edit screen options menu

When creating an SMS in the Edit screen, press \odot key to access the following options:

- Send - Send the edited SMS and subsequently save it in Outbox.
- Save - Save the edited SMS in Draft.
- Insert object - Insert pictures, sound or animations into the edited SMS.
- Format - Change the format of the fonts.
- Predefined text - Insert a pre-defined user message into the edited SMS.
- Insert number - Insert a phone number from the SIM Phonebook.

To select an option, highlight the option and press LSK.

MMS edit screen options menu

When creating an MMS in the Edit screen, press LSK to access the following options:

- Send - Send the edited MMS and subsequently save it in the Outbox.
- Store - Save the edited MMS in the Draft.
- View details - Display details of the Slide timing and Message size of the MMS.
- Page timing - Edit the timing (Slide timer) for the MMS.
- Preview page- Preview the selected page of the MMS in full-screen before sending.
- Preview msg - Preview the edited MMS in full-screen before sending.

To select an option, highlight the option and press LSK.

MMS edit screen insert menu

When creating an MMS in the Edit screen, press RSK to access the following functions:

- Insert picture - Insert pictures into the MMS from the Pictures folder.
- Text - Add text to the MMS.
- Edit text - Edit the inserted text.
- Insert photo - Insert photos into the MMS from the Photos folder.
- Sound - Attach a selected ringtone/melody to the MMS from the Sounds folder.
- Insert voice - Attach voice clips to the MMS.
- Insert page - Adds an additional slide to the MMS.

Receiving and reading a message

The following describes the operations related to receiving and reading a message.

Receiving an MMS message

From the main menu, select Message > Settings > MMS setting. Highlight Receive options and press LSK to display the different types of MMS message senders (Normal/ Anonymous sender/Advertisements). Highlight the type of sender and press LSK to set the following options for the selected sender:

- When Auto retrieve is set: The contents of the MMS message are downloaded automatically from the MMS center.
- When Auto reject is set: No MMS will be received by the phone.
- When Auto defer is set: The notification message will be saved in Inbox. (applicable for Normal message sender only)

To read a message

Select Message from the main menu or press left navigation key directly

popup notification that a new message is received; as alarm clock is a higher priority event. Likewise, no notification will be received when the message is received during a call or when there is an incoming call. The phone will emit a beep tone only if the call is put on hold.

For more information on "Inserting object" and "Format", please refer to page XX.

When a new MMS is successfully downloaded, the main LCD screen will display

"Received MMS message complete". Otherwise, if your phone is folded, the 2nd-LCD screen will display "New message".

The 2nd-LCD screen will not display MMS receiving progress.

When you received an incoming call while downloading an MMS, the download connection will not be interrupted as long as the

from the standby screen.

- Press LSK to display the message list of the highlighted mailbox (Inbox/Outbox/Draft).
- Highlight the message to be read and press LSK. Select View from the Option menu. The message contents will be displayed.

Creating and sending a message

The following describes the operations related to creating and sending a message.

To create and send a new SMS message

Select Message from the main menu or press left navigation key directly from the standby screen.

- Select Create > SMS to start a new SMS.
- Input your message.
- When done, press LSK to display the Option menu. Highlight Send and press LSK. Input the recipient's number using the text editor.
- To send the SMS to a number in the contacts list, press LSK and highlight Phonebook from the Option menu, then press LSK again and choose accordingly.
- Press LSK to insert a number from the contacts list.
- To send, press LSK to display the Option menu, then press LSK again to send. After sending, the SMS will be saved in the Outbox.

To create and send MMS:

Select Message from the main menu or press left navigation key directly from the standby screen.

- Select Create > MMS to start a new MMS.
- Press RSK to display the Option menu to insert pictures, text, photo, sounds, voice or an additional page into the MMS. Use the " and # navigation keys to highlight your choice and press LSK to select. After selection, the phone will return to the MMS editing screen with the inserted attachment.
- To send the MMS after completing it, press LSK to display the Options menu. Highlight Send and press the LSK. Input the recipient's number using the text editor.
- To send the MMS to a number in the phonebook, press LSK and highlight Phonebook from the Option menu, then press LSK again and choose accordingly.
- To send the MMS to an E-mail address in the phonebook, press LSK and highlight E-mail from the Option menu, press LSK and choose accordingly.
- Press LSK to insert a number from the contacts list. If necessary, enter the MMS Subject or a Cc recipient.
- To send, press LSK to display the Options menu, then press LSK again to send. After sending, the MMS will be saved in the Outbox.

To reply SMS to a received message

Select Message from the main menu or press # navigation key directly from the standby screen.

- Select Inbox from the Message menu screen. Highlight the message to reply to, press LSK for the Option menu. Highlight Reply via SMS and press LSK.
- The Edit screen will be displayed with the text editor.
- Input the message and press LSK for the Option menu when the SMS reply is done. Highlight Send and press LSK to send the SMS reply. The message is sent and saved in Outbox.

To reply MMS to a received message

Select Message from the main menu or press left navigation key directly from the standby screen.

- Select Inbox from the Message menu screen. Highlight the message to reply to and press LSK for the Option menu. Highlight Reply via MMS and press LSK.

incoming call duration is not longer than the GPRS connection time- out.

When the memory allocated for the message function is full, your phone cannot receive new messages until you delete the old messages. To prevent the message memory from being used up, it is recommended to regularly delete unwanted messages.

The maximum number of characters is defined as the number of single byte characters (alphanumeric characters, etc.) allowed in a field/item. If a double byte character such as a special symbol is used, the number of characters allowed will vary accordingly.

You can send SMS messages to a group of not exceeding 10 recipients. The complete phonebook will be displayed.

For inputting multiple addresses, insert ';' between addresses.

- The Edit screen will be displayed with the sender's address and Re: original subject of the MMS message.
- Input the message and press LSK when the MMS reply is done. If necessary, edit the Subject title.
- Press LSK again for the Option menu. Highlight Send and press LSK to send the MMS reply.

To forward a received message

Select Message from the main menu or press # navigation key directly from the standby screen.

- Select Inbox from the Message menu screen. Highlight the message to forward and press LSK for the Option menu. Highlight Forward and press LSK.
- If necessary, edit the Subject title (for MMS only). Press LSK again for the Option menu. Highlight Send and press LSK to forward the MMS or SMS.

Useful Tips For SMS, EMS, and MMS

The useful tips for writing and sending a message are shown below:

Saving an unfinished and unsend message:

In the message Edit screen, press LSK, select Save/Store to save the message in Draft.

Editing and sending a message saved in Draft:

Displaying the Draft message list screen, highlight the saved message.

- Press LSK, select Edit. After editing the message, press LSK to display the Option menu. Select Send to send the message.

Predefined text

From the main menu, select Message > Predefined text. The list of predefined text for you to add into your messages will be displayed. Highlight on the desired message and press LSK to either Select or View.

- Highlight Select and press LSK to display the message editing display. After changes are made, press LSK to either Send and save or just Save the message.

Message settings

The following describes the setting items for SMS/EMS settings, MMS settings and Cell broadcast settings:

SMS/EMS settings

From the main menu, select Message > Settings > SMS setting.

Service center

- Use the up and down navigation keys to highlight Service centre and press LSK to edit the SMS Message Center number.
- Press LSK to save any changes made to the number. This number is saved in the SIM card.

Message type

- Use the up and down navigation keys to highlight Message type and press the LSK to display the Message type screen.
- Use the up and down navigation keys to highlight the different options and press LSK to select: Standard text/Fax/X.400/Paging/E-mail/ERMES/Voice mail. The corresponding radio button beside the option will be turned on.

Validity period

Select the duration that the SMS/EMS message will be stored in the SMS/EMS center while trying to deliver the message.

- Use the up and down navigation keys to highlight Validity period and press the LSK.
- Highlight 1 hour/12 hours/1 day/1 week/Maximum. Press LSK to select and turn on the radio button of the highlighted option. The phone returns to the SMS setting menu screen.

The status report facility is network dependent.

Status report

Select this option to request for a receipt when the SMS message is sent successfully.

- Use the up and down navigation keys to highlight Status report and press LSK. The tick in the check box indicates that Status report is activated.

Direct reply

● Use the up and down navigation keys to highlight Direct reply and press LSK to toggle it On/Off. The tick in the check box indicates that direct reply is activated.

SMS via GPRS

● Use the up and down navigation keys to highlight SMS via GPRS and press LSK to toggle it On/Off. The tick in the check box indicates that this function is activated.

MMS setting - Send options

Select Message from the main menu or press # navigation key directly from the standby screen. Then select Settings > MMS setting > Send options.

Delivery report

Select whether to request a delivery report of the sent MMS message.

- Highlight Delivery report and press LSK to toggle the Delivery report On/Off. A tick in the check box beside the option indicates the activation of the function.

Own address

Select whether to show your address or to hide it when sending out MMS.

- Select Own address from Send options menu screen. Highlight Hide/Show and press LSK to confirm and turn on the radio button.

Lifetime

Select the period of time the MMS message is stored on the server while trying to deliver the message.

- Select Lifetime from Send options menu screen. Highlight 1 day/2 days/1 week/4 weeks/Maximum. Press LSK to turn on the radio button of the highlighted option.

Priority

Select the priority level for the MMS you send out.

- Select Priority from Send options menu screen. Highlight High/Normal/Low and press LSK to confirm and turn on the radio button.

MMS setting - Receive options

You can set the options when receiving MMS from the different senders.

Select Message from the main menu or press Left navigation key directly from the standby screen. Then select Settings > MMS setting > Receive options.

- Select Normal/Anonymous sender/Advertisements to display the MMS receive options screen for the different category of MMS senders.
- Highlight Auto retrieve, Auto reject or Auto defer (applicable for normal MMS senders only) and press LSK to confirm and turn on the radio button. For details of each setting, refer to page XX.

Cell broadcast settings

From the main menu, select Message > Cell broadcast.

Message list

Select Message list to display the list of received cell broadcast messages.

Broadcast

Highlight Broadcast and press LSK to toggle the receiving of the cell broadcast messages On/Off. A tick in the check box indicates that the receiving of cell broadcast messages is activated.

Topic list

Any number of topics can be added to this personal list. You can enter at least ten entries using the channel number (ID) and if required, the name itself.

- To add a new topic, select Topic list > User defined > <Add new> to display the Enter msg ID: screen. Enter the ID and press LSK. Enter the name and press LSK.
- To add to a current topic, select Topic list > Current > <Add Topic> to display a list of topics to choose from.
- To delete a topic, highlight the topic, press LSK and select Delete.

Auto display

Turns the automatic display function On/Off for cell broadcast messages to be displayed in standby mode.

- Use the up and down navigation keys to highlight Auto display and press LSK or press 4 to toggle it On/Off. The tick in the check box indicates that Auto display has been activated. When cell broadcast service is activated, the phone operating time will be reduced. Broadcast messages service is network dependent. Please contact your service provider for details.

CB languages

The language in which you wish to receive cell broadcast messages in can be specified.

- Select CB languages to display the list of available languages. To add a new language, press LSK and select Insert. Highlight the desired language to add to the list and press LSK to confirm selection. The phone returns to the Cell broadcast display menu.

Memory status

The available memory and the used-up memory will be displayed.

- With the standby screen displayed, press Left navigation key or select Message from the main menu.
- Select Memory status to display the SMS memory status of the phone and the SIM, MMS memory status.

Java™

You can download Java™ from WAP sites and etc. and run these in your phone. The downloaded Java applications are saved under this function.

Java

From the main menu, select Java™. Alternatively, you can press and hold " navigation key directly from the standby screen.

The downloaded Java™ applications and folders will be displayed. Highlight any application and press LSK to start the following options:

T Zones

Get more

You may customize your phone from the following settings. From the main menu, select Settings. And you may see Phone, Phone modes, Display, Calls, Security, Network, T9® input, and Reset settings. Under Phone option, there are:

Phonebook

Lists

Your phone can store up to 8 different contacts phonebooks:

- Personal directories (ADN) in SIM
- Personal directories (ADR) in your phone memory (Phone)
- Own number
- Fixed dialing numbers (FDN)
- Service dialing numbers (SDN)
- Voice mailbox
- Complete (a list of all the numbers stored in the other phonebooks (Phone, IM, FDN) except SDN numbers)
- Groups

From the main menu, select Phonebook > Lists to display the phonebook entries. Alternatively, press Right navigation key directly from the standby screen.

Storing numbers and name in phonebook

Starting and recall stored number

The phone numbers in your personal phonebook can be located and then called using one of the following methods:

Alphabetical contacts phonebook list

From the main menu, select Phonebook > Lists to display the phonebook entries.

Editing or personalizing phone memory numbers

The edit function enables any phone number stored in the phone memory to be edited and have additional information/attributes added to the number.

Accessing the option menu

SIM memory edit

The Edit function can be used to alter the existing information in a SIM memory record as follows:

Phone memory edit

The Edit function can be used to alter the existing information in a phone memory record. You can alter the following information:

Editing existing phone memory information

Group

Creating a group name

Storing a scratchpad number

Own number

Own number menu allows you to enter your own numbers. To add an entry, use the following procedure:

IM

Tools

From the main menu, select Accessory to access the various functions provided by your phone as listed below:

- My document (voice memo, Photos, picture, sounds, memory status)
- Camera
- Organization (Scheduler, ToDo list, Notepad)
- Clock (Alarm clock, Auto off, Auto on, Countdown, Stopwatch)
- Calculation (Calculator, Currency conv.)
- Composer
- Voice memo
- PC sync

Voice memo

The voice memo files are saved here. You may send the file as an MMS attachment.

Press LSK to display the option menu:

Add new

Play

Send as MMS

Set as ringtone

Rename

Delete

Delete all

info

Picture & Sounds

The Photos and Pictures folders manage the photos and pictures in your phone respectively. You can choose to display and edit the images and animations that are either captured by the built-in camera or downloaded from the Internet. You can also attach the images and animations to the MMS you are sending out.

Sound

The Sounds folders manage the ringtones and other melodies in your phone.

Camera

For detailed information about using camera, please see the next chapter.

Scheduler

From the main menu, select Accessory > Organization > Scheduler. The default will be the monthly display. Press the LSK and select Week to view the calendar in week display.

ToDo list

The ToDo list allows you to set up reminders and appointments for a particular time and day (up to 50 appointments can be stored).

Notepad

The notepad application allows you to write text files and save them in your phone as reference.

Alarm Clock

The alarm will start ringing at the time you set (even after the phone is switched off).

Auto off

When this function is activated, the phone will be automatically switched off at the pre-set time everyday.

Auto on

When this function is activated, the phone will be automatically switched on at the pre-set time everyday.

Countdown

After a preset time elapsed, the function will indicate last 3 seconds of the countdown timer by a beep tone. At the end of the countdown time, a special beep can be heard.

Stop watch

From the main menu, select Accessory > Clock > Stopwatch. A maximum of two timings can be registered with the stopwatch.

Calculation

You can perform addition, subtraction, multiplication and division of numbers with the calculator function. You can enter up to 8 digits. The calculator can display a result of up to 9 digits, with a maximum of 6 decimal places.

Composer

From the main menu, select Accessory > Composer to display the list of preset melodies. Press LSK on the selected preset melody to display the Option menu. Highlight Composer and press LSK to display Composed melody screen.

You will have the options to compose one main track and three sub tracks in each preset melody.

Voice memo

The Voice memo function allows you to record up to 50 seconds of sound/voice (at the lowest data rate) using your phone's microphone. You can also send the Voice memo as an MMS attachment.

PC sync

To transfer any stored data from the phone to the PC or from the PC to the phone, select Accessory > PC sync from the main menu. Press LSK to start synchronization.

Camera

The integrated digital camera in the phone allows you to take photos and send them out via the Multimedia Messaging Service (MMS) or as an e-mail attachment. The photos will be stored in JPG format in the phone, and can be viewed by most picture viewing programs.

Taking a picture

To take and save a picture inside your phone, use the following procedure:

- From the main menu, select Accessory > Camera or press Sidekey directly.

The Camera finder screen will appear in

the main LCD and the actual composition of the picture will be shown.

- Press the Sidekey to capture the picture. Check the picture. When the preview screen is displayed, press LSK to

save or RSK to cancel the action.

- The default file name for the picture is image+serial number, for instance image0001.

- To return to the Camera finder screen, press RSK.

- To switch off the camera function, press key to return to the standby screen.

Zoom

When taking a picture in the Camera finder screen, you can zoom in by pressing ! navigation key. To zoom out, press " navigation key.

Normal/Rotate mode

When choosing Rotate from Options menu, the picture will be saved, rotated at 90 degrees.

Brightness

Press the ! or " navigation key to control the brightness level of the picture when taking a picture in the Camera finder screen.

Camera option menu (before taking a picture)

Press LSK from the Camera finder screen to display the Option menu for the camera to set the following:

Self timer

- Highlight Self timer and press LSK to toggle this function On/Off. The picture is taken after 10 seconds after Sidekey is pressed during picture taking.

Twilight

- Highlight this function and press LSK to toggle this function On/Off. The exposure time will be increased during photo taking due to the poor light conditions.

Close up

- You can take a close up photo by activating this mode.
- Highlight Close up and press LSK to toggle this function On/Off

Rotate

- You can rotate the picture by 90 degrees from vertical (portrait) to horizontal(landscape) view by activating this mode.
- Highlight Rotate and press LSK to toggle this function On/Off. When this function is toggled On, the word .Rotate. is displayed on the camera finder screen and the saved picture is rotated from vertical to horizontal view.
- To rotate back to vertical view, press LSK again. The word .Normal. is displayed on the camera finder screen.

Photo size

The image size can be set for external usage (e.g., on a PC) regardless of the image shown in the display screen (which will be at the default of VGA (640 x 480)).

When the camera is activated, there will be a camera icon shown on the 2nd -LCD screen.

Your phone.s camera is constructed using extremely high precision technology, but there may be lines or dots on the screen that appear permanently dark or bright.

Note also that the amount of noise in the image (white lines etc.) may increase noticeably when you take pictures in dimly-lit places.

Be careful not to apply force to the lens when closing your phone. This could damage the lens.

Be considerate of other people.s privacy when you take a picture using the camera of your phone and send it to others.

Remember to turn off the camera after using to save power.

You can display the Quick keys by pressing # key on the Camera finder screen. When in camera mode, the phone will return to standby mode after 3 minutes of idling.

The zoom function cannot be activated when an image

. Highlight Photo size and press the LSK to display the Option menu. Use the # and \$ navigation keys to highlight the image size that best suits your needs and press LSK to confirm the selection.

. The available sizes are: VGA (640 x 480); QVGA (320 x 240); QQVGA (160 x120).

. A larger image size will take up more memory space.

Brightness

. Highlight Brightness and LSK to adjust the brightness for the photo shoot with the use of # and \$ navigation keys. Press LSK to confirm the setting.

Image quality

. Highlight Image quality and press the LSK to display the Option menu. The quality of the photos can be set as Fine/Normal/Economy. Use the ! and " navigation keys to highlight and select the quality by pressing LSK.

. A 'Fine' quality photo implies that the photos taken will be of better quality. However, the total number of pictures that can be taken will be reduced.

Effect

. Highlight Effect and press the LSK to display the Option menu.

. Use the ! and " navigation keys to highlight and select the different color tint to take your photo: Normal/Monochrome/Sepia/Bluish. Change the color tint setting by pressing LSK. The radio button beside the option will be turned on.

Flicker control

When taking pictures under a fluorescent light, flickers may occur. To prevent flickers, use the following procedure:

. Highlight Flicker control and press LSK to display the Option menu.

. Use the ! and " navigation keys to select 50Hz/60Hz and press LSK to confirm your selection. The radio button beside the option will be turned on.

Default setting

By selecting this menu you can return the camera option menus to the default settings.

. Highlight Default setting and press LSK to reset the camera option menus.

The table below shows the options for the camera and their default settings:

Camera options	Default setting
Self timer	Off
Twilight	Off
Close up	Off
Rotate	Off (vertical)
Photo size	VGA (640x480)
Brightness (a scale of 1-5)	3
Image quality	Fine
Effect	Normal
Flicker control	50Hz

Camera option menu (after saving a picture)

View finder

. By selecting this menu, you can return to the Camera finder screen.

Send as MMS

. By selecting this menu, you can attach the saved picture to an MMS.

Set as wallpaper

. By selecting this menu, you can set the saved picture as the wallpaper.

size of 640 x 480 is selected.

For a selected image size of 320 x

240, you can zoom in only

once, and for a selected image

size of 160 x 120, you can zoom in twice.

Quick keys:

1 - Self timer

2 - Twilight

3 - Close up

4 - Photo size

5 - Brightness

6 - Image quality

7 - Effect

8 - Normal/Rotate

* - Status icons

You can take a picture while the phone is closed.

Images shot in your phone

cannot be used in ways that

infringe copyright laws without Camera options holder, unless intended only

for personal use. Note that

some restrictions apply to the

photographing of stage performances,

entertainments

and exhibits, even when intended purely for

personal

use.

Users are also asked to note

that the transfer of images

protected under copyright

laws is only permissible within

the restrictions imposed by

those copyright laws.

Go to my photos

. By selecting this menu, you can access the Photos folder in My document.

Camera