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Emergency Services and Safety Precautions

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 position 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 the 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°C; 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 of battery packs in a fire. Your phone's Li-ion batteries may be safely disposed of at Li-ion recycling points. For more specific battery and power supply information, see page 4.

- 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. Dispose of the used battery 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 case.
- Remember to recycle: 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 some data may be initialized.
- Your phone contains metal which may cause you an itch, a rash 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 bag where it may subject to excessive weight or pressure. Doing so may damage the LCD and camera lens and cause them malfunction.
- Take care not to hold the Light too close to your or other people's eyes when the Light is lit.
- Do not aim or direct the InfraRed (IR) data port towards your or other people's eyes when using the IR data exchange.
- The foam covers the earpiece of the headset. Do not put any other part of the headset in your ears.

Aircraft Safety

- Switch off your phone and remove its battery when inside or near aircraft. The use of cellphones in aircraft is illegal. It may be dangerous to the operation of the aircraft and it may disrupt the cellular network. Failure to observe this instruction may lead to suspension or denial of cellphone 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 cellphones is prohibited. Follow the instructions given by the respective medical facility regarding the use of cellphones 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 be a choking hazard.
- The operation of some medical electronic devices, such as hearing aids and pacemakers, may be affected if a cellphone 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 Ringer 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 phone at a refuelling point, such as a petrol station, even if you are not refuelling your own car.
- Do not store or carry flammable or explosive materials in the same compartment where a radio transmitter, such as a cellphone, is placed.
- 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 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. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Third Party Equipment

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

Service

The cellphone, batteries and charger contain no user-serviceable parts. We recommend that your NEC cellphone is serviced or repaired by an NEC authorized service centre. 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 rest close to 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 your 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, 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 phone to operate at a higher power level than needed and may shorten talk and standby times.

Radio Frequency Energy

Your phone is a low-power radio transmitter and receiver. When it is turned on, it intermittently receives and transmits radio frequency (RF) energy (radio waves). The system that handles the call controls the power level at which the phone transmits.

Exposure to Radio Frequency Energy

Your phone is designed not to exceed the limits for exposure to RF energy set by national authorities and international health agencies. * These limits are part of comprehensive guidelines and establish permitted levels of radio wave exposure for the general population. The guidelines were developed by independent scientific organizations such as ICNIRP (International Commission on Non-Ionizing Radiation Protection) through periodic and thorough 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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Before You Start

User's manual conventions

The instructions in this user's manual make use of the shortcuts selection except special cases.

The following markers are used throughout the user's manual to attract your attention:

 This type of paragraph will contain details of where to find information related to the topic in question.

 This type of paragraph will contain information worth noting.

 This type of paragraph will contain important information.

 This type of description will contain procedures to operate your phone.

Menu shortcuts selection

The alternative shortcuts method of selection lets you jump straight to a menu or function without highlighting an icon and scrolling through the intermediate menu options. The selection is made by pressing numbers which relate to the displayed menu options.

 The instructions in this user's manual make use of the shortcuts selection, except in special cases.

Reading the titles

Some titles in this manual contain information on how to access the functions. In these titles, M stands for , the numbers indicate the menu shortcut numbers (see "Overview of menu function" on page ix for details) and ... (three periods) indicate that there are more operations described in the paragraph.

Reading the procedures

"Highlight" means to use the four way navigation keys (   ) to move the area emphasized with different colouring.

"Select" means to highlight an item and then press .

Procedures are written omitting the verb "press", except in some special cases.

For example,  1 2 means to:

-  Start from the standby screen → Press  to display the Main menu screen
-  Press 1 to display the Settings screen → Press 2 to display the Phone modes screen

Simple procedures are connected by arrows (→).

Check box/Radio button

A check box enables/disables an option out of a set of options, and multiple check boxes can be selected at the same time. On the other hand, selecting a radio button automatically cancels the previous selection, so only one radio button can be selected at one time.

A check box/radio button option can be selected/cancelled by highlighting it and pressing .

Desktop icon area

This area contains the automatically displayed and the manually created desktop icons. They provide shortcuts to certain items/functions.

Help area

This area contains help information appropriate for the current screen (e.g. key presses remaining when composing a message).

SK1/SK2

This area contains context sensitive descriptions of the Softkeys' functions appropriate for the current screen.



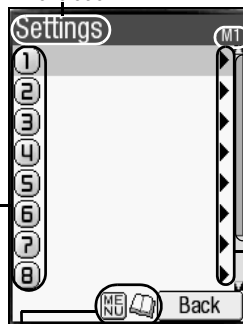
Status bar area

This area contains icons which indicate the battery strength, new SMS/MMS message(s), signal strength, etc. (see page vii). On screens other than the standby screen, the clock display is placed in this area.

Shortcut number

Press the appropriate number to jump straight to a next menu. The row colour is changed when selected (e.g. to activate/deactivate a facility).

Menu title



Shortcut menu number
The current menu number is displayed.

Page scroll bar
Displayed when you can press ▼ to scroll to the next page.

Next menu icon
Displayed when you can press ► or the shortcut number to show the next menu.

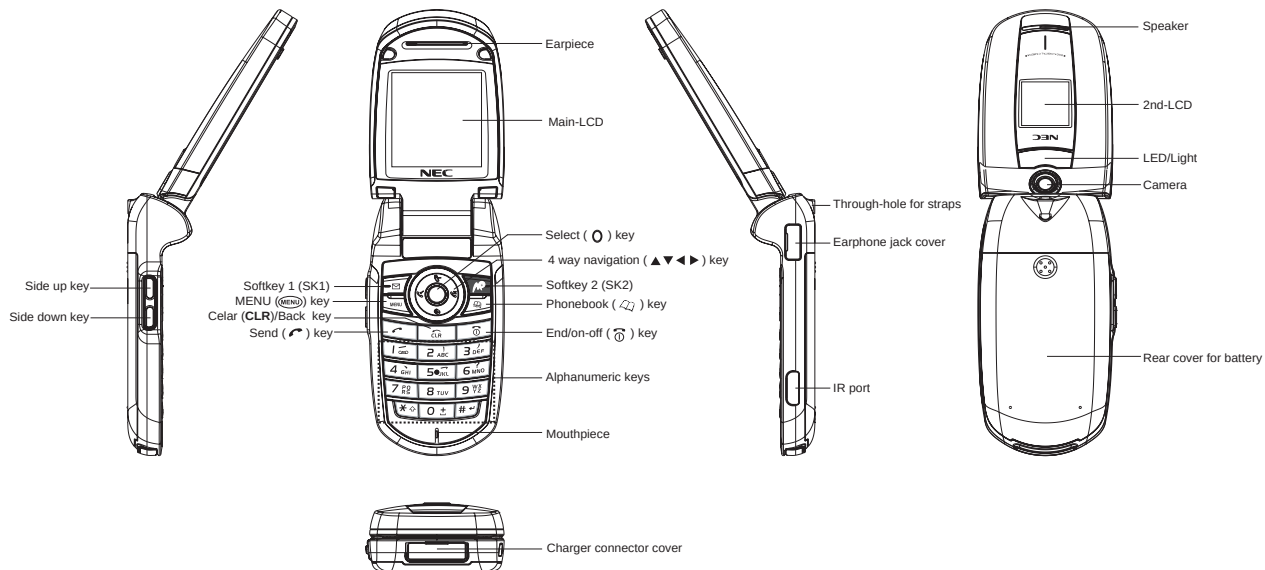
Help icons

Displayed when you can use the key represented by these icons (see page vii).



The Liquid Crystal Displays (LCD) on your phone are manufactured using high-precision technology. Even so, the LCD may contain pixels (dots) that fail to light or that remain permanently lit. Note that this is normal and does not indicate a problem with your display.

Parts and functions



Be careful not to put your finger or foreign objects in the hinge of the phone when your phone is opened.

Keypad shortcuts

The following operations are available from the standby screen.

Key	Operation that involves pressing a key	See page	Operation that involves pressing and holding a key	See page
	Accessing the Main menu screen	ix	Setting/Cancelling the Side key lock	23
SK1	Accessing the Message screen	39	Accessing the Msg type screen to create a new message	45
SK2	Accessing the China Mobile in screen	56	Accessing the Monternet home	51
	Accessing the Phonebook list screen	57	–	–
▲	Accessing the Phone modes screen	24	Setting the phone to Meeting mode/Returning to the previous mode	24
▼	Accessing the My favorites screen	31	Accessing the voice recall	9
◀	Accessing the received calls list	12	–	–
▶	Accessing the missed calls list	12	–	–
	Accessing the dialled calls list	12	–	–
○	Highlighting a desktop icon	21	–	–
	Ending a call or returning to the standby screen	–	Powering off	5
CLR	Cancelling the Cell Broadcast message display	50	Deleting all the automatically displayed desktop icons	21
	Deleting character or returning to the previous screen	–	Deleting all characters when you enter text	–
1	Entering phone numbers	6	Calling the Voice mail centre	64
2 to 9	Entering phone numbers	6	One-touch dial to the corresponding number in the phonebook(SIM)	8
0	Entering phone numbers	6	Entering + when you make an international call	14
#	Entering #	6	Entering a pause	–
*	Entering *	6	Switching the ALS line 1/2 (If the SIM card supports ALS)	23
Side up	Accessing the volume control screen when your phone is open (Use ▲ ▼, Side keys or 0 to 9 keys to adjust the volume.)	23	Accessing the camera view finder screen	83
	Activating the ring silencer function when you receive a call	23		
Side down	Accessing the volume control screen when your phone is open (Use ▲ ▼, Side keys or 0 to 9 keys to adjust the volume.)	23	Turning on the light (To turn it off, press any key or open/close your phone.)	–
	Activating the ring silencer function when you receive a call	23		

Main-LCD



- 1** Indicates the battery level.
 Indicates the battery charging status (fast, slow, stop).
- 2** Indicates that there is a new SMS in your phone.
 Indicates that there is a new SMS on the network.
 Indicates that the SIM memory is full.
 Indicates that the Inbox in your phone is full.
- 3** Indicates that there is an MMS on the server.
- 4** Indicates that you have received an alert message.
- 5** Indicates that you have received an alert message.

- 6** (pink, blue)
Pink indicates that PDP Context is activated, and blue indicates the connection with GPRS network.
- 7** Indicates that Bluetooth is set on, Bluetooth is in operation, IR modem is set on.
- 8** Indicates the line status (No ALS or ALS Line 1/ALS Line 2). The icon with displayed in red indicates that the ALS line 1 or 2 is unencrypted/no ALS.
- 9** Indicates the signal strength level.
 Appears when you are outside the service area.
- 10** Network name (indicated in orange when using roaming service)
- 11** Desktop icons
See "Desktop icons" on page 21 for details
- 12** (red, green/red, green)
Indicates that new voice mail messages are on the network (No ALS or ALS Line 1/ALS Line 1 and 2/ALS Line 2).
 Indicates the call diversion is set.
 Indicates the Meeting mode, Pocket mode, Car mode.
 No icon appears for the Normal mode.
 Indicates sound-off, vibrator-on, sound-off/vibrator-on.
- Indicates alarm-on.

Java™ application for the standby screen is suspended.

- 13** Date
- 14** Day of week
- 15** Remote time
- 16** Local time
- 17** Indicates that you can use the options menu by pressing .
- Indicates that you can use the phonebook list by pressing .
- Indicates that the help display is available by pressing when using SIM toolkit.

<When the camera/video view finder is in operation>

- 2** Indicates single/burst mode (camera).
 Indicates the video mode is on or the video is recording.
- 3** Indicates that the self timer is on.
- 4** Indicates the quality of the picture (super fine, fine, normal, economy or super economy).
 Indicates the quality of the video.
- 5** Indicates the photo/video screen size.
- 6** Indicates the photo/video screen size.

Indicates the shooting environment.



Indicates the brightness setting. The "+2" setting is the brightest.



Indicates the zoom level.

<When the video preview is in operation>



Indicates the video mode is set to on, the video is playing, on pause, fast forwarding, or rewinding.



Indicates the track information of the video (the video only, the audio only, and the video and audio).

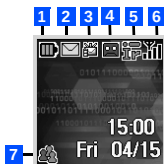


Indicates the video is played in normal/enlarged screen size.



Displays the current volume level. The 0 is mute and 9 is the maximum.

2nd-LCD



Indicates the battery level.



Indicates the battery charging status (fast, slow, stop).



Indicates that there is a new SMS in your phone.



Indicates that there is a new SMS on the network.



Indicates that the SIM memory is full.



Indicates that the Inbox in your phone is full.



Indicates that there is an MMS on the server.



Indicates that a new voice mail message is on the network (No ALS or ALS Line 1/ALS Line 1 and 2/ALS Line 2).



Indicates the Bluetooth is on, Bluetooth is in active, IR modem is set to on.



Indicates the signal strength level.



Appears when you are outside the service area.



Indicates that the phone is in the Meeting/Pocket/Car mode.

No icon appears for the Normal mode.

<When 2nd-LCD is used as the camera view finder screen>



Indicates the battery level.



Indicates the battery charging status (fast, slow, stop).



Indicates single or burst mode of the camera.

(blue, red)

Indicates that the video mode is on or the video is recording.



Indicates the photo/video screen size.



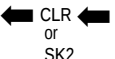
Indicates that the self timer is on.

Overview of menu function

Standby screen



Main menu screen



The Main menu has a set of icons for its top levels of options which can be selected either using a combination of the 4-way navigation key (▲ ▼ ◀ ▶) and ○ (menu selection), or just the keypad (shortcuts selection).

✎ The title of the selected option will be displayed in the Help area.

✎ With the Main menu screen displayed, press 0 to display your own number.

Key	Main menu	Second level menu
1	Settings	Phone
		Phone modes
		Main-LCD
		2nd-LCD
		Power saving
		Calls
		Security
		Network
		Connection profile
		Reset settings
		Videos
		Sounds
		Pictures
2	My favorites	MP3
		Java™

Key	Main menu	Second level menu
3	Message	Inbox
		Drafts
		Outbox
		Sent
		Alert inbox
		CB
		Folder1
		Folder2
4	Monternet@	Go to home page
		Bookmark
		Snapshot
		Alert message
		Go to URL
		Go to last page
		Settings

Key	Main menu	Second level menu
5	China Mobile in	
6	Customer service	
7	Phonebook	Lists
		Information #
8	Accessory	MP3 player
		Calculator
		Clock alarm
		Scheduler
		ToDo list
		Notepad
		Voice memo
		Currency
		External connection
		Synchronization
		Dictionary
		Camera
9	Call history	

<i>Getting Started</i>	<i>1</i>
<i>Basic Calls & Phone Use</i>	<i>6</i>
<i>Text Entry</i>	<i>17</i>
<i>Desktop icons</i>	<i>21</i>
<i>Settings (M1)</i>	<i>23</i>
<i>My favorites (M2)</i>	<i>31</i>
<i>Java™ (M25)</i>	<i>37</i>
<i>Message (M3)</i>	<i>39</i>
<i>Monternet (M4)</i>	<i>51</i>
<i>China Mobile in/Customer service (M5/M6)</i>	<i>56</i>
<i>Phonebook (M7)</i>	<i>57</i>
<i>Accessory (M8)</i>	<i>66</i>
<i>Bluetooth (M891)</i>	<i>77</i>
<i>IR Data Exchange</i>	<i>80</i>
<i>Camera (M8#)</i>	<i>83</i>

Emergency Services and Safety Precautions **i**

Before You Start **iii**

User's manual conventions.....	iii
Display information	iv
Parts and functions	v
LCD and displayed icons	vii
Overview of menu function	ix

Getting Started **1**

Preparing the phone	1
Standby and talk times	4
Checking the battery	4
Low battery alarm	4
Other battery alarms	4
Start-up	4

Basic Calls & Phone Use **6**

Making basic calls.....	6
Ending a call	6
Receiving an incoming call	7
Unsuccessful calls	7
Emergency calls	8
Last number redial	8
One-touch dial	8
Fast dialling.....	8
Displaying your own phone number (M0/M716)	8
Voice recall	9
Options menu (during a call).....	9
Putting a call on hold	9
Mute.....	10

Call transfer.....	10
Multi-party calls	10
Recording a call	11
Scratchpad number	11
Call history (M9)	11
Call settings (M16)	13
International dialling codes	14
Roaming.....	15

Text Entry **17**

Mode change	17
T9® English text input	17
Normal text input.....	18
Numeric input.....	18
T9® Chinese Stroke input.....	19
T9® Pinyin input (Simplified Chinese)	19
T9® Zhuyin input (Traditional Chinese)	19
Key allocations	20

Desktop icons **21**

Settings (M1) **23**

Phone (M11)	23
Phone modes (M12)	24
Main-LCD (M13)	26
2nd-LCD (M14)	26
Power saving (M15)	27
Calls (M16).....	27
Security (M17).....	28
Network (M18)	29
Connection profile (M19).....	29

Reset settings (M10)	30
My favorites (M2)	31
Videos (M21)	31
Sounds (M22)	31
Pictures (M23)	32
MP3 (M24)	34
Java™ (M25)	34
File selector Options menu	35
Java™ (M25)	37
Applications (M251)	37
Network setting (M252)	37
Resident setting (M253)	38
Storage info (M254)	38
Access to Java™ download site (M255)	38
Message (M3)	39
Message overview	39
Reading a message (M31)	40
Options menus	41
Creating a message	45
Cell broadcast (M36)	50
Monternet (M4)	51
What can I download	51
Web settings	51
Logging on to WAP site	54
Other features	54
NEC Web site	55
GPRS dial up	55

China Mobile in/Customer service (M5/M6)	56
China Mobile in	56
Customer service	56
Phonebook (M7)	57
Phonebook types	57
Accessing your phonebook (M7)	58
Phonebook list Options menu	59
Personal data Options menu	63
Voice mail (M717)	64
Accessory (M8)	66
MP3 player (M81)	66
Calculator (M82)	67
Clock alarm (M83)	67
Scheduler (M84)	68
ToDo list (M85)	70
Notepad (M86)	71
Voice memo (M87)	73
Currency (M88)	73
External connection (M89)	74
Synchronization (M80)	74
Dictionary (M8*)	75
Camera (M8#)	76
Bluetooth (M891)	77
Using Bluetooth connection	77
IR Data Exchange	80
Positioning of the phones	80

IR send	80
IR receive (M8921)	81
IR modem (M8922)	81
Camera (M8#)	83
Notes on using the camera.....	83
Taking a picture (M8#1)	84
Recording a video (M8#2)	86
Index	89

Getting Started

Preparing the phone

Before trying to use your phone, make sure that a valid Subscriber Identity Module (SIM) card is inserted and the battery is charged.

SIM card

Before using your phone, you must sign-up with one of the digital network service providers. In addition to your subscription details you will receive a personal SIM (Subscriber Identity Module) card which is inserted into your phone.

If the SIM card is removed, the phone becomes unusable until a valid SIM card is fitted. It is possible to transfer your SIM card to another compatible phone and resume your network subscription. The screen on your phone will display appropriate messages if no SIM card is fitted.



If the phone, or the SIM card, is lost or stolen then you should contact your service provider immediately in order to bar it from use.



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



The digital technology of your phone helps to ensure that your conversations are kept secure.



The SIM card contains personal data such as your electronic phonebook, messages (see "Message (M3)" on page 39) and also 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 card is fitted.



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

Inserting a SIM card



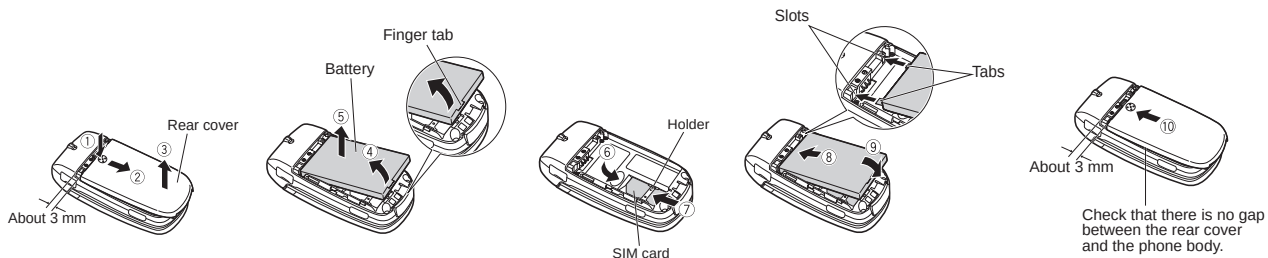
Be sure to turn the phone off before removing the battery pack.

- While pressing down the areas marked with ☹ of the rear cover as indicated by arrow ①, slide the rear cover about 3 mm in the direction of arrow ② with your finger tip. Then, lift the cover up in the direction of arrow ③ to remove it.
- Lift the finger tab of the battery pack up in the direction of arrow ④. Then lift the battery pack out in the direction of arrow ⑤.
- With the metal part facing down, insert the straight end of the SIM card under the holder in the direction of arrow ⑥. Slide the SIM card all the way until it reaches the end.



Be careful not to damage electric parts of the SIM holder when inserting a SIM card.

- Insert the two tabs on the battery pack into the slots on the phone in the direction of arrow ⑧, making sure that the tabs on the battery pack fit properly into the slots on the phone. Then, press the battery pack down in the direction of arrow ⑨ to clip it into the phone.
- Make sure that the battery pack is securely attached to the phone and align the rear cover with the grooves on the phone so that there is a gap of about 3 mm at the end of the cover. After making sure that there is no gap between the rear cover and the phone body, slide the rear cover in the direction of arrow ⑩ until you hear a click.



 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 fitted, see “Start-up” on page 4.

Removing a SIM card

 With the battery removed, push the short and straight end of the SIM card with your thumb to slide it gently in the direction of arrow ⑦ → Lift the SIM card after it is completely removed from the holder.

 Be careful not to damage electric parts of the SIM holder when removing a SIM card.

Charging the battery

Before trying to use your phone, insert the phone's battery and connect the NEC battery charger (AC adapter) supplied with your phone to a suitable mains power socket.

➡ Pull open the charger connector cover gently.

✋ **Be careful when handling the charger connector cover. Do not pull strongly.**

➡ With the arrow marks of the charger plug facing up, hold the buttons on both sides of the charger plug with your thumb and index finger.

➡ Press the buttons as indicated by the arrow marks on the charger plug and insert the plug into the charger connector.

✋ **Make sure to insert the charger plug with the arrow marks facing up. Otherwise, damage to the charger connector can occur when disconnecting the charger plug.**

📖 If your phone is turned on and charging starts, the battery charging icon will be displayed. LED will turn on in red while charging. When charging is complete, the LED will turn off.

📖 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.

➡ After the charging is complete, press the buttons of the charger plug as indicated by the arrow marks on the charger plug (①) and gently pull straight out of the charger connector (②).

✋ **Make sure to press both buttons when disconnecting the charger plug from the charger connector. If you pull the charger plug forcibly without pressing the buttons, damage to the charger connector can occur.**

The icons show the charging status of battery.

🔋 Fast battery charging

🔋 Slow battery charging while the phone is in use

🛑 Battery charging stopped due to overheat

✋ **Using any battery pack, AC adapter, vehicle power adapter (option) not specified by NEC for use with this phone can be dangerous and may invalidate any warranty and approval given to the cellphone. Do not leave the charger connected to the mains supply when it is not in use.**

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

✋ **DO NOT connect a charger or any other external DC source until the phone's battery is inserted.**

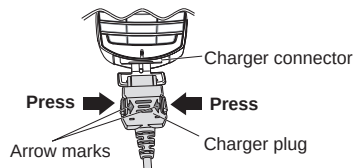
📖 If the phone does not respond, please wait for a few minutes. The charging will then start.

📖 If you use the phone while charging, handle the phone carefully since the cable or adapter is connected.

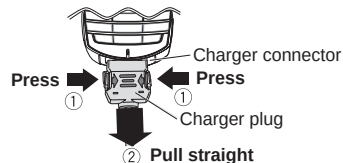
📖 If you make/receive a call while charging, the charging may temporarily be interrupted.

📖 Charging takes approximately 3 hours with your phone turned off.

📖 Even if the phone remains connected to the charger, battery residual capacity may decrease when the phone is used for video recording, playing or other battery consuming operation.



Make sure to hold the charger plug with the arrow marks facing up and press both buttons.



Make sure to press both buttons and gently pull the charger plug straight.



IMPORTANT BATTERY CHARGING INFORMATION

Charging a very low battery

The battery's charge continues to drop after the low battery warning is displayed. In extreme cases where the battery is left uncharged for some considerable time after this warning, a trickle charge is used to slowly top-up the battery to the safe level at which the fast charging can begin. The phone can be in trickle charge for a few minutes before the fast charging starts.

Standby and talk times

Your phone works closely with the network you are using to provide the services you need, and the standby and talk times achieved will depend on how you use the phone and choices made by the network operator.

In particular, factors such as your location within the network, the frequency at which this location is updated, the type of SIM card you have, your reception of area messages or cell broadcast messages and the use of full rate or enhanced full rate speech, will affect both standby and talk times.

Checking the battery

☑ Check icon at the top of the standby screen.

The number of blocks on the icon shows the charge of your battery pack.



Full battery power



Partial battery power



Low battery power



Battery empty

Low battery alarm

When the battery voltage falls below the working level, a low battery warning is displayed on the screen accompanied by LED illumination and a short tone along with an empty battery icon. The phone will automatically power down shortly afterwards.

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

Other battery alarms

Your phone may display warnings when the battery temperature is too high, or the voltage of the battery or the charger is over the appropriate level. Follow the instruction given by these warnings immediately.

Start-up

Switching the phone on

☑ Hold down  for about a second to switch on. The screen will display the selected greeting (if set, see page 26) and the phone is then in standby.

🔔 You may need to charge the battery before using your phone.

-  When your phone is turned on, the specified ringer may sound.
-  If your phone is accidentally turned off while downloading or deleting Java™ application, it will take longer than usual to start up the phone the next time you turn on the power.

Switching the phone off

-  Hold down  until the display shows the switch off message.

PIN code

The SIM card issued by your service provider has a security feature called PIN code protection. The Personal Identification Number (PIN) is a number put on to the card by your service provider, and is 4 to 8 digits long. Some service providers supply SIM cards which will cause your phone to prompt for a PIN code when it is turned on. If this is the case, enter your code with the phone's keypad. If you insert a SIM card other than your own, information such as call logs may be lost (see "Security (M17)" on page 28 for details).

Basic Calls & Phone Use

Making basic calls

You make a simple call in the same way as you would with a normal phone, except that you need to press  after entering the area Subscriber Trunk Dialling (STD) code and the phone number. To make international calls, you must first enter the international dialling code (see page 14).

-  Use the full STD area code even if you are calling to a person in the same town. If the numbers are too long to be displayed within one line, after pressing , excess part is deleted and '...' is added at its end.
-  The main-LCD display shows the strength of the radio signal that links your phone to the network. The maximum signal strength is shown by 4 shaded blocks and the minimum signal strength by 1 block.

Starting a call

-  Key in the phone number. Check the number on the display →  or SK1 to send the input number to start the call
-  Before the other party answers the call, you can end the call by pressing  briefly, pressing SK2 or closing your phone. When you use the headset, you can also end the call by pressing or holding the button on it.
-  When connecting a wired headset and Bluetooth headset at the same time, the wired headset will not work.

When the call is sent, the screen displays the number called, the name stored in the phonebook and a connection graphic or a Calling Line Identification (CLI) picture that has been allocated to the number called (see page 62).

Correcting mistakes

Use the  and  to move the cursor and then press CLR to clear individual digits, or hold down CLR to completely clear a phone number.

Ending a call

-  While talking, press SK2 or  briefly, or close your phone. The phone returns to the standby screen.
-  If  is held down, your phone will turn off.
-  When you use the headset, you can also end a call by pressing or holding the button on it.
-  When connecting a wired headset and Bluetooth headset, the wired headset will not work.
-  You cannot end a call by closing your phone when the headset is connected.

Receiving an incoming call

When someone calls your number, the ringer will play (if set - see page 25), the LED glows in the specified colour, and the phone number of the caller may be displayed if the calling line identification facility is available and the caller has activated the feature. If the caller's phone number has been related and stored in your phonebook with a name and a CLI picture (see page 62), that name and picture will be displayed. If the caller has withheld their identity, the screen will give a message that the caller's number is being withheld. If the origin of the call cannot be determined, no information is displayed on the screen.

 You also have options for holding and forwarding calls. These options depend on your network and your subscription arrangements.

Accepting an incoming call

-  While receiving an incoming call, press  or SK1
-  When you use the headset, you can also accept an incoming call by pressing the button on it.
-  When connecting a wired headset and Bluetooth headset, the wired headset will not work.
-  When Auto answer function (see page 26) is set to on and a headset is connected to the phone, the incoming call is automatically accepted after several rings.
-  You can accept an incoming call by opening your phone, when Fold answer function (see page 23) is set to on.
-  You can set your phone to answer a call when any key is pressed (see "Any key answer" on page 23).

Rejecting an incoming call

-  While receiving an incoming call, press  or SK2 briefly or close your phone.
-  When you use the headset, you can also reject an incoming call by pressing and holding the button on it.
-  You cannot reject a call by closing your phone when the headset is connected.
-  When connecting a wired headset and Bluetooth headset, the wired headset will not work.

If your phone receives a call and you do not answer it, the main-LCD will display a desktop icon of the phone number (or the name if stored) of the caller (if available). If your phone is closed, the 2nd-LCD will also display a missed call icon, and you can display the details by pressing Side up. This information is stored in the missed calls list. Up to 20 missed calls are stored in this list.

 If you are making a call, the phone gives priority to receiving a call unless you have already pressed .

 See also: "Call diversion (M161)" on page 13 and "Call waiting and holding (M162)" on page 14.

 See also: "Call history (M9)" on page 11.

Unsuccessful calls

If dialled call is not successfully connected, the display will give an appropriate message.

If your phone has the auto redial function activated, the number will be automatically called again after a short delay (see page 14).

Emergency calls

The standard emergency number of 112 can be used.

- ☑ Key in 1 1 2 → 📞 or SK1 to connect the call to the local emergency services.

📖 On some networks, emergency calls can be made using the 112 number without a SIM card inserted.

Last number redial

You can redial the last number you called.

- ☑ Ensure that the standby screen is displayed and no phone number is shown → 📞 twice to dial the last number you called.

🔗 See also: "Call history (M9)" on page 11.

One-touch dial

One-touch dial for the phonebook (SIM) is available by pressing and holding the number keys between 2 and 9.

📖 A number for the One-touch dial corresponds to the location number in the phonebook (SIM).

📖 One-touch dial is available only for the phone numbers with the location number 2 to 9 stored in the phonebook (SIM).

Fast dialling

You can make a call to the phone number in the phonebook (Phone/SIM) with just a few press of button.

To fast-dial the phone number in the phonebook (SIM), use the following procedure:

- ☑ From the standby screen, key in the Location number of a personal data in the phonebook (SIM). Then, press #. The corresponding personal data is displayed.
- ☑ 📞 to dial the phone number.

To fast-dial the phone number in the phonebook (Phone), use the following procedure:

- ☑ From the standby screen, key in the Abbreviated Dialing Number (ADN) of a personal data in the phonebook (Phone). Then press *. The corresponding personal data is displayed.
- ☑ Use the ► and ◀ keys to choose the phone number (if there are more than one), then 📞 to dial the phone number.

Displaying your own phone number (M0/M716)

- ☑   0 or  7 1 6

Voice recall

You can store up to 10 voice recall recordings which can be allocated to a personal data stored in the phonebook (Phone). To store the voice recall sound, see page 62. To use the voice recall function, use the following procedure:

- Press and hold ▼
- When you use the headset, you can also activate the voice recall function by pressing and holding the button on it from the standby screen.*
- Within 4 seconds, say the word or words you have recorded to identify the record you wish to recall. If the word or words were recognized, the first phone number of the personal data stored in the phonebook (Phone) will be called automatically.

Options menu (during a call)

- During a call, (MENU) to display the options menu

No.	Options menu (during a call)	
1	Main menu	Displays the Main menu screen. See "Overview of menu function" on page ix for details.
2	Hold/Retrieve	Puts the call(s) on hold or retrieves the call(s).
3	Mute/Unmute	Mutes or unmutes your voice to all active calls.
4	Transfer call	Enables to transfer the call and connect other parties. After transferring the call, your call will be dropped.
5	Add to conference	Merges calls and makes a multi-party call.
6	Private call	Make a private call to the highlighted party within the multi-party call.
7	Record call	Records the call while talking.
8	Disconnect party	Disconnects the highlighted party.
9	Switch call to Bluetooth/ Switch call to phone	Switches the audio path state of the call. This option is available only when the Bluetooth device is connected to the phone.
0	Bluetooth On	Activates the Bluetooth device.

- Depending on the conditions, some options may be displayed in gray and not be available.

Putting a call on hold

- To put the received or dialled call on hold, SK1 or (MENU) 2. To retrieve the call, SK1 or (MENU) 2 again.

Mute

You can mute the sound from the mouthpiece during a call. When your call is muted, the other party cannot hear any sound from your phone, but you can still hear the sound from the other party.

☑ To mute the sound during a call, press **(MENU)** 3. To retrieve the sound, press **(MENU)** 3 again.

📖 *The mute function is automatically released after the call ends.*

Call transfer

When you have an active call and a held call, you can transfer the call and connect the two parties, then you can drop from the line while leaving those two calls active.

☑ To transfer the call, **(MENU)** 4.

📖 *After dropping from the call with the other two parties, if you have a call waiting, you can proceed the call with it.*

📖 *Call transfer facility is SIM dependent.*

Multi-party calls

If your SIM card is multi-party enabled, you can make a conference call to more than one caller. To create the multi-party calls, at least 3 parties, including the host, are needed.

Receiving the second call

☑ SK1 or **(MENU)** to accept the second call → SK2 or **(MENU)** 5 to merge both calls to initiate a multi-party call.

📖 *When you accept the second call, the first call will be put on hold.*

Making the second call

☑ SK1 to put the first call on hold → Key in the phone number → SK1 or **(MENU)** to make the second call → After the second participant answers, SK2 or **(MENU)** 5 to merge both calls to initiate a multi-party call.

Putting the multi-party calls on hold

☑ SK1 or **(MENU)** 2 to put all calls on hold → To retrieve the call, press SK1 or **(MENU)** 2 again.

📖 *You can put the multi-party calls on hold only when you are a host of the multi-party calls.*

Making a private call

While on the multi-party call, you can make a private call to a specific party.

- ☑ To make a private call, highlight the desired party you want to make a private call to →  6
- ☑ To end a private call and return to the normal multi-party call →  5
-  While you are on a private call, other parties can continue with their conversation.
-  You can make a private call only when you are a host of the multi-party calls.

Ending the multi-party calls

- ☑ To end the multi-party calls,  or SK2.
 - ☑ To disconnect a specific party on a multi-party call, highlight the party you wish to disconnect →  8
 -  You can disconnect a specific party on the multi-party calls only when you are a host of the multi-party calls.
-  **Multi-party call facilities are network dependent.**

Recording a call

You can record the conversation during the call.

- ☑ During a call, press and hold  or  7 to display the Voice memo screen → SK1 to start the recording → SK1 to pause and SK2 to stop the recording → To play the recording, see "Recording/playing voice memo or setting speaker" on page 73.

Scratchpad number

Your phone has a scratchpad facility that enables you to take down a phone number during a call and then make a call to it when you have finished. This scratchpad number can be stored in memory for future use.

Noting & calling a scratchpad number

- ☑ During a call, key in the number to be placed in the scratchpad. It will be shown on your phone's screen →  when the call is finished. The number will still be displayed. Press  to dial the displayed number.

Call history (M9)

From Call history, you can display the list of missed, received and dialled calls, the duration of the last call made and all calls, charge information and the redial blacklist.

- ☑  9 to display the Call history screen.

No.	Call history	
1	Missed calls	Displays the list of missed calls. You can also access this function by pressing  from the standby screen.
2	Received calls	Displays the list of received calls. You can also access this function by pressing  from the standby screen.

No.	Call history	
3	Dialled calls	Displays the list of dialled calls. You can also access this function by pressing  from the standby screen.
4	Last call duration	Displays the duration of the last call made on your phone.  SK1 to reset the display to zero.
5	Total calls duration	Displays the duration of the total calls made on your phone.  SK1 → 1 to reset the duration of the total dialled calls, 2 to reset the duration of the total received calls, or 3 to reset the duration of all calls.
6	Charge info	Displays the charge information (Advice of Charge - AoC).  <i>The AoC facility is SIM card and network dependent.</i>  To reset the display to zero, set the maximum charges or edit the unit price, you may be prompted to enter the PIN2 code.
		1 Total charge Displays the total charge.  SK1 to reset the display to zero.
		2 Maximum charge Displays the maximum charge.  Key in the maximum number of units allowed → SK1
		3 Unit price Displays the unit price.  Highlight the whole number (integer), the decimal number or the currency field → Key in the required value for the whole number and decimal number fields. For the currency field, key in the currency type using a maximum of three characters → SK1
7	Redial blacklist	Accesses the numbers in the blacklist.  If dialled call is not successfully connected (e.g. number busy), the auto redial facility will be offered (see page 14). If you have set auto redial and the call still fails, the number called will be added to the blacklist.

 Depending on the conditions, some options may be displayed in gray and not be available.

Display missed/received/dialled calls Options menu (M91M/M92M/M93M)

-  ► or  9 1 for missed calls,  or  9 2 for received calls, or  or  9 3 for dialled calls.
 Highlight a number in the list → 

No.	Missed calls/Received calls/Dialled calls Options menu	
1	Call	Calls the current number.

No.	Missed calls/Received calls/Dialled calls Options menu	
2	Create message	Creates a new message to the highlighted phone number.
3	Add to phonebook	Adds the current number to the phonebook.  1 to add it as a new personal data, 2 to add it to an existing personal data → Press the appropriate number for the storage destination → Press the appropriate number for the phonebook data field to copy the current number to.
4	Delete one	Deletes the current number.
5	Delete all	Deletes all the numbers in the list.
6	Info	Displays information on the current number.
7	Add desktop icon	Creates a desktop icon of the selected number.
8	Items/Page	Selects either to display 4 or 8 phone numbers in one screen.

 Depending on the conditions, some options may be displayed in gray and not be available.

Call settings (M16)

From the Calls screen, you can change various call settings: the call diversion, call waiting and holding, and auto redial.

Call diversion (M161)

Setting Call diversion

  1 6 1 → Highlight the type of call you wish to divert.

 There will be a delay while your phone checks its divert status with your network.

 Highlight one of the conditions → When the phone number field of a divert condition is highlighted, either enter the phone number to divert to, or delete any existing phone number.

 If you have made any mistake, highlight the appropriate field → SK1 to clear any mistakes.

 If the settings are correct, 

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

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

 There may be unavailable settings depending on your network.

Call diversion edit options menu

☛ Highlight the required edit field → 

No.	Call diversion edit options menu	
1	Copy	Copies the number in the edit field.
2	Paste	Pastes the previously copied number.
3	Disable all	Disables the numbers from all the fields.
4	Phonebook	Displays the phonebook to insert a number in the edit field.
5	Add to phonebook	Adds the number to the phonebook as a new personal data or saves the number in an existing personal data.

 Depending on the conditions, some options may be displayed in gray and not be available.

Call waiting and holding (M162)

This facility informs you that another call is being made to your phone while an existing call is in progress.

Setting up call waiting

☛  1 6 2 → 1 1 to activate, 1 2 to deactivate the call waiting, or 2 to check the status of call waiting.

Using call waiting

☛ If you are on a call and another comes in, you will be alerted by a beep in the earpiece → SK1 to accept the incoming call.

- ☛ To switch the calls, SK1
- ☛ To merge the calls, SK2 (see “Multi-party calls” on page 10).
- ☛ To end the current call, 
- ☛ To retrieve the held call SK1

Auto redial (M163)

With the auto redial facility, your phone will redial a number up to 10 times if the first attempt fails. A tone will be heard at each redial attempt. Your phone cannot connect a call if the other party is busy or if there are network problems. Pressing SK2 during a redial attempt will abort it.

☛  1 6 3 → 1 to activate or 2 to deactivate the auto redial facility.

International dialling codes

When you make an international call from any country, you must start by dialling a special international access code. Your phone has the facility to prefix a + symbol to the numbers, so that you need not enter the access code for the country that you are calling from.

Entering international dialling codes

- Hold down 0. The 0 character displayed will change to a + character → Key in the country code, area code, and phone number that you wish to call. The UK country code is always 44, no matter what country you are dialling from. For example, a typical UK number of 0131 1234567 is entered as:

International access	country code	area code	phone number
+	44	131	1234567

Roaming

- You will be charged for calls forwarded to you while roaming.

The roaming facility enables you to use your phone in many parts of the world and pay all charges through your normal service provider. Your network operator usually has agreements with named networks in other countries so that automatic roaming can take place with these named networks. The phone also allows you to set network preferences of your own.

When dialling, you will need to add the international access codes if required. So, storing all numbers with the codes (such as +44 for UK) is helpful (see "Entering international dialling codes").

- Before leaving your home country, you should select any preferences such as bar calls or call diversion.

Setting Automatic or Manual network selection (M181)

- 1 8 1 → 1 to select the automatic mode or 2 to select the manual mode.
- Before you manually select a network, ensure it is covered under the agreement you have with your service provider.

New search (M182)

- 1 8 2 to search the available networks → Highlight the desired network → to connect to it.

Viewing/editing network list (M183)

- Before editing your network list, please consult with your service provider.
- 1 8 3 to read the network list in the SIM memory → Highlight the required network →

No.	SIM list Options menu	
1	Add	Adds a new network to the list.
2	Move	Moves the highlighted network within the list. Use ▲ and ▼ to move the network → SK1
3	Remove	Deletes the highlighted network.

 Depending on the conditions, some options may be displayed in gray and not be available.

Selecting the frequency band (M184)

You have to select the frequency band to suit the location.

  1 8 4 → Select the required frequency band.

 Frequency bands must be adjusted to suit the location when roaming (Europe, US, etc.), for the phone to work properly.

Text Entry

This section describes how you enter text.

Mode change

- With a text entry screen displayed, press SK1 to change the text entry mode.
- Depending on the Language setting (see "Language" on page 24 for details) the type of text input mode you can use varies:
 - Chinese mode: T9® Chinese stroke, T9® Pinyin/Zhuyin, Numeric input, Normal text (ABC)
 - English mode: T9® English text, Normal text (ABC), Numeric input

T9® English text input

Your phone incorporates T9® Text Input, enabling fast, easy and intuitive text input. For each letter to be keyed in, you only need to press the alphanumeric key once. The screen will display the word you may require based on the internal English dictionary of your phone.

- With a text entry screen displayed, press SK1 until the entry mode is T9® English input.
- i) For example, to enter "Good":
- Press 4 6 6 3, and then press 0 to confirm the word.
- ii) To enter "Peter is good":
- Press * to shift to upper case (for one letter). You will see a green arrow in the Help area.
 - Press 7 3 8 3 7 to display "Peter", and then press 0 to confirm.
 - Press 4 7 to display "is", and then press 0 to confirm.
 - Press 4 6 6 3 to display "good", and then press 0 to confirm and the sentence is completed.

Key	Function
0	Confirms a word and inserts a space.
1	Inserts a period or a single quote as in "Let's", "we're", "it's", etc.
SK1(List)	Displays the list of other matching words.
SK1(Spell?)	Activates the spell mode which temporarily deactivates T9® for you to spell the word in Normal text input. The spell mode ends when you key in 0 to enter a space, or SK1(T9).
SK2(Dismiss)	Cancels the T9® matching word list.

Key	Function
SK2(Next) or #	Displays the next candidate.
◀ or ▶	Places the cursor.
0 to 9 (press and hold)	Inserts the number.
CLR	Deletes any character.
*	Toggles between lower case, shift (upper case for one letter) and caps lock (permanent upper case).
* (press and hold)	Press and hold to activate the highlight mode (see "Highlight mode" on page 50).
#	Activates symbol mode when no word is highlighted.

Normal text input

- With a text entry screen displayed, press SK1 until the entry mode is Normal text (ABC) input.
- Use alphanumeric keys to enter letters. For example, to enter "e," press 3 twice; to enter "f," press 3 three times. For other functions, see the table below.

Key	Function
*	Toggles between lower case, shift (upper case for one letter) and caps lock (permanent upper case).
* (press and hold)	Press and hold to activate the highlight mode (see "Highlight mode" on page 50).
0	Inserts a space.
0 to 9 (press and hold)	Inserts the number.
CLR	Deletes any character.
◀ or ▶	Places the cursor.
#	Activates symbol mode.

- If you have made a mistake, use ▲ ▼ ◀ ▶ to place the cursor to the left or the right of the incorrect character (depending on the Clear mode setting, see page 50 for details) and then press CLR.
- When entering normal (ABC) text, and the character you require is displayed, use ▶ to move to the next character position (if you wait for more than 1 second, the cursor will move one character to the right automatically).

Numeric input

- With a text entry screen displayed, press SK1 until the entry mode is Numeric input.

-  You can also press and hold the number key to insert the number in T9®/Normal text input mode.
-  Use alphanumeric keys to enter numbers.

T9® Chinese Stroke input

-  With a text entry screen displayed, press SK1 until the entry mode is T9® Chinese Stroke input.
-  Press * to toggle Radical mode on/off. (If ON, an indication appears in the stroke bar.)
-  Press 1 to 6 to add a stroke to the stroke bar, and display candidate characters.
-  To select a candidate, press SK1 or 0 and then the character number (1-9), or press and hold the character number for one second. (Pressing ▲ or ▼ will display more characters when there are more than 9 candidates.)
-  If the radical mode is on, radicals will appear with a dotted line underneath. Select a radical to copy it to the stroke bar, where more strokes may be added.
-  When a character has been selected, it is copied to the edit field and the cursor moves to the right to accept the next character.

T9® Pinyin input (Simplified Chinese)

-  With a text entry screen displayed, press SK1 until the entry mode is T9® Pinyin input.
-  Press 2 to 9 keys to enter a pinyin, based on the normal key mapping. Matching pinyins are displayed in the top row of the T9® bar.
-  Use ◀ or ▶ to highlight a pinyin.
 -  If a complete pinyin is highlighted, you may press SK2 to display the Tones → To select a Tone, press the Tone number.
-  Character candidates are displayed on the candidate bar. (Pressing ▲ or ▼ will display more characters when there are more than 9 candidates.)
-  To select a character, press SK1 or 0 and then the character number (1-9), or press and hold the character number for one second.
-  When a character has been selected, it is copied to the edit field and the cursor moves right to accept the next character.

T9® Zhuyin input (Traditional Chinese)

-  With a text entry screen displayed, press SK1 until the entry mode is T9® Zhuyin input.
-  Press a key (1-9, *, #) to enter a zhuyin, based on the BoPoMoFo key mapping. Matching zhuyins are displayed in the top row of the T9® bar.
-  Use ◀ or ▶ to highlight a zhuyin.
 -  If a complete zhuyin is highlighted, you may press SK2 to display the Tones → To select a Tone, press the Tone number.
-  Character candidates are displayed on the candidate bar. (Pressing ▲ or ▼ will display more characters when there are more than 9 candidates.)
-  To select a character, press SK1 or 0 and then the character number (1-9), or press and hold the character number for one second.
-  When a character has been selected, it is copied to the edit field and the cursor moves right to accept the next character.

Key allocations

Whenever you need to enter text (for messages, storing names with numbers, etc.), successive presses of an alphanumeric key will display different characters. Pressing ***** in T9® English text input or Normal text (ABC) input toggles between lower case, shift (upper case for one letter) and caps lock (permanent upper case). When a text entry screen is displayed, pressing SK1 enables you to select Normal text input (ABC), T9® Text input (T9) or Numeric input (123).

 Depending on the types of text entry screens, not all types of text entry modes are available.

Symbol mode

In the symbol mode, pressing each key will input a symbol according to its position on the Symbols screen. By pressing # in a text entry mode other than T9® Zhuyin input mode, the Symbols screen will be displayed. Use **▲** and **▼** to select the row, and then press the appropriate number on the column of the required symbol.

Desktop icons

Desktop icons are shortcuts to functions or items. You can activate a desktop icon on the standby screen (desktop) instead of following the menu and pressing the shortcut numbers.

The desktop icons are displayed in two rows on the standby screen. See "LCD and displayed icons" on page vii for the actual location of the desktop icon area.

There are two types of desktop icons: the automatically displayed and the manually created.

Automatically displayed desktop icons

The following automatically displayed icons are displayed on the upper row of the desktop icon area:

Icon name	Image	Description
Missed call		Displayed when there is a new entry in the Missed calls list.
Missed message		Displayed when there is a new message you have not acknowledged.

 You can delete all the automatically displayed icons by pressing and holding CLR on the standby screen.

 If you turn the phone off, all the automatically displayed desktop icons are deleted.

Manually created desktop icons

The following manually created icons are displayed on the lower row of the desktop icon area

Icon name	Image	Description
Phone number		Displays a dialer screen with the registered phone number displayed.
Message		Creates a new message to the registered phone number or Email address.
Picture		Displays the image file.
Note		Displays the note.
Camera		Displays the camera view finder screen.
Video		Displays the video view finder screen.
MP3 player		Displays the MP3 player screen.
Calculator		Displays the Calculator screen.
Clock alarm		Displays the Set alarm screen.
Scheduler		Displays the Monthly/Weekly calendar screen.

Icon name	Image	Description
ToDo list		Displays the ToDo list screen.
Notepad		Displays the Add new screen for Notepad.
Voice memo recorder		Displays the New record screen for Voice memo.
Currency		Displays the Currency screen.
Dictionary		Displays the Dictionary screen.

Creating a desktop icon manually

- Highlight the required function (Camera/Video/MP3 player/Calculator/Clock alarm/Scheduler/ToDo list/Notepad/Voice memo/Currency/Dictionary) or display the item (image file/note file/phone number/Email address).

For functions, SK1

For items,  to display the Options menu and select Add desktop icon (for an image/note file, this menu is under Use item)

For Camera/Video/MP3 player, you can also display the Options menu and select Add desktop icon (for Camera/Video, this menu is under Other settings).

 You can create up to 10 desktop icons.

 If you have more than 5 desktop icons, an arrow will be displayed to indicate that you can scroll for more icons.

 The phone number or Email address desktop icon data will not be updated when the original data is modified. Delete the old desktop icon and create a new one in such a case.

 When you create a desktop icon of an image file or notepad file, the file will be automatically protected. The default title will be the file name. Even if this title is changed, the original file name will remain the same.

 Each manually created desktop icon has a title that you can edit.

Activating a desktop icon

-   → Highlight the required desktop icon → 

 If you do not press any key for three minutes after highlighting a desktop icon, the highlight is cancelled and the screen goes back to the normal standby screen.

 If you activate an automatically displayed desktop icon, it will be deleted automatically.

Desktop icon Options menu

- Highlight a desktop icon → 

No.	Desktop icon Options menu	
1	Edit title	Edits the title of the highlighted desktop icon.
2	Delete one	Deletes the highlighted desktop icon.
3	Delete all	Deletes all the manually created desktop icons.

Settings (M1)

Phone (M11)

  1 1

No.	Phone		
1	Voice volume	Adjusts the sound volume output from the earpiece.  Use ▲ ▼, Side keys or alphanumeric keys (0 to 9) to adjust the volume.  You can also press the Side keys to display the volume control screen and to adjust the volume setting.  During a call, you can press the Side keys to adjust the setting of the volume as required.  When you change this setting while a headset is connected, the changed volume will be valid only when you have a headset connected.  While using a Bluetooth headset, you cannot change the volume.	
2	Answer options	1 Any key answer	On: Any key (except  , SK2, the Side keys) is valid to answer a call. Off: Only  and SK1 are valid to answer a call.
		2 Ring silencer	On: Pressing one of the Side keys stops the ringer sound and the vibrator while receiving a call with the phone closed.  This function cannot be used if the Side keys are locked.
		3 Fold answer	On: You can answer an incoming call by opening your phone.
3	Side key	Disable: Side keys are locked while your phone is folded.  You can also lock/unlock the Side keys by pressing and holding  on the standby screen.	
4	ALS setup	 The Alternate Line Service (ALS) facility is SIM card and network dependent. If your SIM card supports ALS, you can setup which line to use for Outgoing call or Voice mail.	

No.	Phone		
5	Clock	1	Show clock Sets to display the local time, both the local and remote times or no time on the main-LCD.
		2	Set time Sets the time for the local or remote time.
		3	Set date Sets the date.
		4	Set date format Selects the date display format.
		5	Set time format Selects the time display format from 12 hour or 24 hour.
		6	Set timezone Sets the timezone. (A ✓ is placed on the currently selected timezone.)  Highlight the required timezone → Press SK1 to save the change.  If the highlighted timezone has Daylight Saving, a check box will be displayed at the bottom of the screen. Press  to activate (✓)/deactivate the setting.
		7	Set start day Selects whether to start the week on Sunday or Monday.  This setting affects the functions related to the day of the week, such as Scheduler. (See "Scheduler (M84)" on page 68 for details.)
6	Language	Selects the language the phone displays.  When you have switched the language to be displayed, please wait until the new setting becomes active.	
7	LED	Selects the Light Emitting Diode (LED) colour for incoming calls/SMS/MMS (including Email) or during a call.  If the personal setting or the Group setting for the LED colour is also set in the phonebook, it has priority over this LED setting. (See "Allocating a LED colour" on page 62 for details.)	
8	Earphone type	Selects the earphone type from Stereo or Monaural, depending on your earphones (headset).	

Phone modes (M12)

Your phone can be set to one of the following modes: Normal mode, Meeting mode, Pocket mode or Car mode.



Any changes made to the settings while in a particular mode will be stored and used when that mode is selected again.

Selecting your phone mode

 ▲ or  1 2 → Press the appropriate key for the required mode.

 You can also set the Meeting mode or return to the previous mode by pressing and holding ▲ on the standby screen.

Editing the mode settings

 ▲ or  1 2 → Highlight the required mode → SK1 → Press the appropriate number for the required setting in the following table.

 For any volume setting, use ▲ ▼, Side keys or alphanumeric keys (0 to 9).

 When you change this setting while a headset is connected, the changed volume will be valid only when you have a headset connected.

No.	Phone mode setting	
1	Ringer	Selects the Sound, Video or MP3 for incoming calls. (See "Sounds (M22)" on page 31, "Videos (M21)" on page 31 or "MP3 (M24)" on page 34 for details.)  If the Video is set, it will sound and will be displayed regardless of the CLI picture/video setting for the personal data in Phonebook. (See "Allocating a picture or video as a CLI" on page 62.)
2	Ringer volume	Sets the sound volume for incoming calls.  While receiving a call with your phone open, the ringer volume can also be adjusted by pressing the Side keys.  While using a wired headset, you can set the volume for the wired headset. The volume settings for the wired headset and the speaker of the phone are saved individually.  While using a Bluetooth headset and a Bluetooth hands-free kit, however, the volume setting for the speaker of the phone is used.
3	SMS tone	Selects the ringtone for incoming SMS messages. (See "Sounds (M22)" on page 31 for details.)
4	SMS tone volume	Sets the sound volume for incoming SMS messages.
5	MMS tone	Selects the ringtone for incoming MMS or Email messages. (See "Sounds (M22)" on page 31 for details.)
6	MMS tone volume	Sets the sound volume for incoming MMS or Email messages.
7	Key tone	Turns on/off the key tone.
8	Service tone	Turns on/off the service tone.
9	Alarm volume	Sets the sound volume for Clock alarm and Schedule alarm.
0	Vibrator	Turns on/off the vibrator function.
*	Earphone setting	Selects the sound output from Earphone & Speaker or Earphone.  This option affects the headset.

No.	Phone mode setting	
#	Auto answer	Selects whether to answer an incoming call automatically.  To use the Auto answer function, connect the headset to your phone and set the earphone volume to 1 or higher. If the earphone volume is set to 0, you must turn the vibrator ON to use the Auto answer.  The Auto answer function only applies to the first incoming call. When you have another incoming call, you have to answer it manually.

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

Main-LCD (M13)

  1 3

No.	Main-LCD	
1	Greetings	Selects the greeting which is displayed on the main-LCD during phone start-up from No greeting, Text or Animation.  If you select Text greeting, press SK1 to edit the greeting text. Key in a greeting text and press .
2	Wallpaper	Selects a picture or video file to use as the background for the main-LCD.
3	Main menu style	Selects and resets the background for the Main menu screen.
4	Colour style	Selects the phone's colour theme.

2nd-LCD (M14)

  1 4

No.	2nd-LCD	
1	Clock/Event display	Selects which items to display on the 2nd-LCD from Clock & Event, Clock only, Event only or Off.
2	Wallpaper	Selects a picture file to use as the background for the 2nd-LCD.
3	Clock selection	Selects the type of clock to be displayed on the 2nd-LCD.
4	Incoming call No.	Turns on/off the function to display the incoming call number on 2nd-LCD.
5	Contrast	Sets the contrast level of the 2nd-LCD.  Use ,  or Side keys to adjust the contrast. The contrast gauge is displayed on the 2nd-LCD.

Power saving (M15)

  15

 If the selected mode is Car mode, this function is displayed in gray and is not available.

No.	Power saving	
1	Level setting	Selects the power saving level from Level 1 (minimum power save setting), Level 2 (moderate) or Level 3 (maximum).  The main-LCD backlight will turn dim and then turn off after a given amount of time with no operation.  When the phone is folded, Power saving level also applies to the 2nd-LCD.
2	Function key LED	Selects whether to flash the LED of SK1 and SK2 when the main-LCD and its backlight are turned off.  If the selected mode is Car mode or the camera view finder screen is displayed, the main-LCD backlight will always be on.

Calls (M16)

  16

 For settings provided on the Calls screen, see "Call settings (M16)" on page 13.



The security settings will help to protect your phone from improper and unauthorized use. You may be required to enter one of the five codes (shown below). When the phone prompts you for one of these codes, key in the appropriate number.

- PIN code (provided by your network service provider to protect your SIM card if it is stolen)
- PIN2 code (provided by your network service provider for charge information and Fixed dialling services protection)
- PUK code (personal unblocking key in case you forget PIN code)
- PUK2 code (personal unblocking key in case you forget PIN2 code)
- Security code



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

PIN code

Your phone can be set up so that your PIN code must be entered at power up before the phone can be used at all. If the PIN code is not entered, not even incoming calls can be answered. Entering your PIN code incorrectly 3 times (not necessarily in the same session) will invalidate the correct PIN code. In such a case you will have to contact your service provider for a PUK code to unblock your SIM card.



Some SIM cards are set up so that PIN number entry cannot be turned off.



When SIM PIN lock is enabled, you can change the PIN code.

PIN2 code

Your phone supports advanced feature that may require a PIN2 code to be entered before they can be accessed or modified. Entering your PIN2 code incorrectly 3 times (not necessarily in the same session) will invalidate the correct PIN2 code. In this case you will have to contact your service provider for a PUK2 code.



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

No.	Security	
1	Change PINs	Changes the PIN or PIN2 code (PIN activate setting must be turned on to change the PIN code).
2	PIN activate	Turns on/off the PIN code entry required at starting up the phone.
3	Change security code	Changes the security code which is used to set some of functions and unlock the Personal Information Manager (PIM) features.  <i>The default setting of the security code is "0000".</i>

No.	Security			
4	Phone lock	Turns on/off the Phone lock function which will lock the phone: you can only make emergency calls or enter the security code. After entering the correct security code, you can use the phone normally.  Upon power-up, you are prompted to enter the security code if the Phone lock was active when the phone was powered down.		
5	Bar calls	You can bar the following calls made/received on your phone: all outgoing (dialled) calls, international outgoing (dialled) calls, international outgoing (dialled) calls except to home, all incoming (received) calls or Incoming (received) calls when roaming.  Bar calls facilities are network services and may require a password.		
		1	Change settings	 Highlight the type of restriction and the call type, and then   to save changes.  Key in your bar calls password to verify user identification to the network  SK1 to confirm and save changes to the network.  The selected settings have red bars over their icons.
		2	Set password	Changes the bar calls password.
6	Fixed dialling	Turns on/off the fixed dialling which restricts the use of dialled number to only the Fixed Dialling Numbers (FDN).  The FDN facility is network dependent.  See also: "Fixed dialling numbers (FDN)" on page 58.		

Network (M18)

  18

 For settings provided on the Network screen, see "Roaming" on page 15.

Connection profile (M19)

  19

 For settings provided on the Connection profile screen, see "Setting the Connection profiles" on page 52.



This function will reset your phone to its factory settings.



By restoring the factory settings, any changes you have made to your phone EXCEPT the following will return to the factory settings (the following data/settings will not be reset):

- **Settings:** Set time for Local time, Set date, Language, all settings in Calls other than Auto redial, all Security settings other than Change security code, SIM list settings in Network.
- **Call history:** Information in Charge info.
- **Phonebook:** All Phonebook entries. The settings for Groups.
- **Accessory:** All Schedule, ToDo, Notepad and Voice memo entries. All the settings other than Clock alarm, Play list for MP3 player, View events for Scheduler, Sort for ToDo, and Timer setting and My phone settings for Bluetooth.
- **Monternet:** All Bookmarks, Saved pages and WAP alerts. All the WAP related settings.
- **Java™:** All the Java™ applications.
- **Message:** All the stored messages. The settings for SMS centre, Validity period for SMS and Language for Cell Broadcast.
- **My favorites:** All stored files.

My favorites (M2)

Using My favorites, you can playback sound and MP3 files, or display pictures and videos downloaded from the Internet or captured with the camera function of your phone.

Videos (M21)

In the following section, how to playback video files (videos) stored in your phone is described. You can either record videos using your phone, download them from the Internet, receive them attached to messages. There are two pre-set folders: My Movies and Download.

Replaying the video files

- ☑ ▼ 1 or (MENU) 2 1 → Highlight a folder → ► or ○ → Highlight a video file you wish to replay → ► or ○ → The video file will be replayed.
- 📖 When the flat view function is activated, the list of folders is not displayed. The list of all the stored video files is displayed.
- 📖 If you wish to move to another hierarchy folder, use ◀ and ▶
- 📖 Pressing # on the video preview screen will enlarge the replay screen size, and pressing # again will return the screen size to normal for Sub-QCIF only.
- 📖 For the definitions of the icons displayed while replaying, see "LCD and displayed icons" on page vii.

Operations while replaying video

- ☑ To stop, SK2
- ☑ To pause, SK1 → While pausing, SK1 again to restart and continue the replay.
- ☑ To fast forward/rewind, ► or ◀ → SK1 or ○ will stop the fast forwarding/rewinding.
- ☑ To enlarge the replay screen size, # for Sub-QCIF only
- ☑ To adjust the volume, Side keys
- ☑ To display the previous/next file, ▲ or ▼
- 📖 You cannot fast forward, rewind or enlarge the screen for video files with only sound but no image.

Sounds (M22)

In the following section, how to playback sound files stored in your phone is described. There are three pre-set folders: Download, Preset and Voice memo.

Selecting and playing sound

- ☑ ▼ 2 or (MENU) 2 2 → Highlight a folder → ► or ○ → Highlight a sound file you wish to replay → ► or ○
- 📖 When the flat view function is activated, the list of folders is not displayed. The list of all the stored sounds files is displayed.

☞ If you wish to move to another hierarchy folder, use ◀ and ▶

Operations while playing sound

- ☞ To stop, SK2
- ☞ To adjust the volume, Side keys.
- ☞ To replay the previous/next file, ▲ or ▼

Pictures (M23)

The Pictures function allows you to display images and animations, which were obtained with the camera function of your phone, received as a file attached to MMS messages, or downloaded from the Internet. The images can also be edited using this function. From the Pictures function you can also attach images and animations to messages you compose. There are six pre-set folders: Photo, Download, Preset, Frame, Stamp and MMS card.

Displaying the Pictures view screen

- ☞ ▼ 3 or (MENU) 2 3 → Highlight a folder → ▶ or ○ → Highlight an image file you wish to display → ▶ or ○
- ☞ To display the previous/next image file, ▲ or ▼

☞ When the flat view function is activated, the list of folders is not displayed. The list of all the stored image file is displayed.

☞ If you wish to move to another hierarchy folder while the Thumbnail view is turned off, use ◀ and ▶

Cutting the image

- ☞ Highlight or display the image file you wish to edit → (MENU) 1 3 → Select the image size → A frame indicating the cut area appears on the preview screen.
- ☞ Move the frame position → ○ → SK1 if the image is favorable

☞ When you select Free, a cross indicator appears on the preview screen. Move it to the point to start a frame and ○ to confirm the position. Then, expand the frame into the required size and ○ to confirm.

Reducing the image size

- ☞ Highlight or display the image file you wish to edit → (MENU) 1 4 → Select the image size → SK1 if the image is favorable

Rotating the image

- ☞ Highlight or display the image file you wish to edit → (MENU) 1 5 → SK1 to rotate the image 90 degrees clockwise.
- ☞ Keep pressing SK1 until the image is at the required angle → ○ to confirm

Decorating the image with stamps

- ☞ Highlight or display the image file you wish to edit → (MENU) 1 6

- ☑ To apply a marker stamp, 1 → Highlight the required stamp →  → The marker stamp position is displayed in centre
- 📖 If you wish to preview the highlighted stamp, press SK1. To display the previous/next stamp, ▲ or ▼.
- ☑ To apply a text stamp, 2 → Key in the text →  → The text stamp position is displayed in centre
- ☑ Move the stamp position →  to confirm → The stamp preview is displayed again. Repeat applying if necessary, or  to select another stamp.
- ☑ SK1 when finished applying the stamp (the stamp preview will not be applied this time)

Adding a frame to the image

- ☑ Highlight or display the image file you wish to edit →  1 7 → Highlight a frame →  to preview the resulting image → Scroll through the various frames by ▲ and ▼ →  to confirm.

Saving the edited image

- ☑ After any edition, SK1 or  to save the edited image → Select the Save Quality
- 📖 SK1 to check the expected size of the image.
- ☑ Edit the name (if required) → 

Printing an image using a printer

You can print an Exif format image file by connecting your phone to a PictBridge compatible printer using a USB cable.

📖 There may be PictBridge compatible printers that cannot be connected to your phone.

📖 Refer to the operation manual of the printer for details on the printing.

- ☑ ▼ 3 or  2 3 → Highlight a folder → ► or  → Highlight an image file you wish to print →  2 4
- 📖 "Print via USB" may be displayed in gray and unavailable, depending on the image file.
- ☑ Connect your phone and the printer with the USB cable → Prepare the printer ready for printing, referring to its manual
- ☑ Check the print detail screen displayed
 - ☑ To print as seen on the detail screen, SK1
 - ☑ To edit the print detail and then print,  on the print detail screen to display the Options menu → Edit the detail using the Options menu → SK1
 - 📖 The Options menu may change depending on the connected printer.
- 📖 If any interruption or error occurs, or the printing is not completed normally, pull out the USB cable and start again from the first step.

No.	Print via USB Options menu	
1	Number of prints	Sets the number of prints to output.
2	Layout detail	Selects the paper size, paper type and layout to print the image file.
3	Print quality	Selects the required quality of printing.

No.	Print via USB Options menu	
4	File name	Selects whether or not to print the file name on the paper.
5	Date	Selects whether or not to print the date on the paper.

MP3 (M24)

In the following section, the procedures to display and play your MP3 files are described. There is one pre-set folder: Download.

Selecting and playing an MP3 file

☛ ▼ 4 or  2 4 → Highlight the MP3 file you want to play → ► or 

📁 *When the flat view function is activated, the list of folders is not displayed. The list of all the stored MP3 files is displayed.*

📁 *To create your own playlist, see "MP3 player (M81)" on page 66.*

Operations while playing an MP3 file

☛ To stop, SK2

☛ To adjust the volume, Side keys.

☛ To replay the previous/next file, ▲ or ▼

Java™ (M25)

☛ For the functions available on Java™, see "Java™ (M25)" on page 37.

File selector Options menu

Display the Videos/Sounds/Pictures/MP3 list screen → 

No.	File Selector Options menu		
1	Edit item	Rename item: Edits the file/folder name of the selected file/folder. Set protection: Sets the protection settings of the selected folder or file on/off. Cut: Cuts the selected picture into Sub-QCIF (128x96), QCIF (176x144), Main-LCD (176x220), 2nd-LCD (128x128) or Free. Reduce: Reduces the selected picture to fit within Sub-QCIF (128x96), QCIF (176x144), Main-LCD (176x220) or 2nd-LCD (128x128). Rotate: Rotates the selected picture. Stamp tool: Adds a marker or text stamp on the selected picture. Frame: Sets a frame to the selected picture.  You cannot use the Cut and Rotate functions for SXGA.  You can only use the Stamp tool and Frame functions for Sub-QCIF, QCIF and Main-LCD.	
2	Use item (Videos)	Set as ring tone: Sets the selected video to be the ringer tone. Set as wallpaper: Sets the selected video to be the main-LCD wallpaper. IR send: Sends the selected video through the IR port to other devices or a cellphone.	
2	Use item (Sounds)	Set as ring tone: Sets the selected sound to be the ring tone. Set as SMS tone: Sets the selected sound to be the SMS tone. Set as MMS tone: Sets the selected sound to be the MMS tone. IR send: Sends the selected sound through the IR port to other devices or a cellphone.	
2	Use item (Pictures)	Set as wallpaper: Sets the selected image to be the main-LCD or 2nd-LCD wallpaper. Add desktop icon: Creates a desktop icon for the selected image on the standby screen. IR send: Sends the selected image through the IR port to other devices or a cellphone. Print via USB: Prints the selected image file using a PictBridge printer via USB cable (see page 33).	
2	Use item (MP3)	Set as ring tone: Sets the selected MP3 to be the ring tone. IR send: Sends the selected MP3 through the IR port to other devices or a cellphone.	
3	Create message	Creates a new message with the file attached.  This function is not available for the MP3 files.	
4	Delete item	Deletes the selected file and folder.	
5	Delete all	Deletes all the files in the current list.	

No.	File Selector Options menu	
6	Copy item	Copies the selected file or folder to the selected folder.
7	Copy all	Copies all the files in the current list to the selected folder.
8	Move	Moves the selected file/folder or all the files in the current list to the selected folder.
9	Create folder	Creates a new folder under the current folder.
0	Storage detail	Displays the current storage information of your phone memory.
*	View detail	Displays the details of the selected folder or file.  You can also display the details on the highlighted folder or file by pressing * without displaying the Options menu.
#	Options	Sorting order: Sorts the files by date, alphabetically, or by the number of Chinese strokes. Info column: Sets whether to display the column on the list screen, and the information to be shown there. None: No column showing Size: Approximate size of the file Type: File type  You can also change the information on the column by pressing # without displaying the Options menu. Thumbnail view: Displays the files as thumbnails. Flat view: Displays the list of all the stored files regardless of the folder hierarchy. List display: Sets whether to display the user title or the file/folder name. Title: Displays the user title. File name: Displays the file/folder name. Save options: Saves the current option settings. Reset options: Resets the option settings.

 Depending on the conditions, some options may be displayed in gray and not be available.

 Depending on the size of the data, file selector operation may take a long time.

 Neither protected data nor preset data and folders can be deleted or moved.

Java™ (M25)

You can download Java™ applications (games etc.) from WAP sites and run them on your phone.

Applications (M251)

How to run software

To run a software (Java™ application), perform the following.

 ▼ 5 or  2 5 → 1 → Highlight an application containing the software you want to run →  or 

 When you display the Java™ applications list screen for the first time after downloading a program(s), it may take a while for your phone to verify the program(s). A message will be displayed during this process, and you may activate the program(s) after it is completed.

 After downloading the software, always make sure that you check the downloaded program is displayed in the Applications screen.

 Do not remove the battery while the software is running as data to that point may not be saved.

Applications Options Menu

 ▼ 5 or  2 5 → 1 → Highlight an application containing the software you want to run → SK1

No.	Applications Options menu	
1	View info	Displays the information of the selected application.
2	Delete current	Deletes the currently highlighted Java™ application.
3	Delete all	Deletes all the applications.
4	Security setting	Displays the security setting of the highlighted application.

Network setting (M252)

You can select the connection profile for the Java™ application software to connect to the network.

 ▼ 5 or  2 5 → 2 → To display the Web profiles screen, 1, or to display the Connection profile screen, 2 (see “Setting the Connection profiles” on page 52 for details).

 This setting is only effective for on-line applications.

Resident setting (M253)

Some Java™ applications can be used on the standby screen. The application will activate automatically after you display the standby screen and not operate the phone for the set resume time. Then, if you still do not operate the phone after the set suspend time, the application will change to the suspend mode.

Selecting the resident Java™ application (M25311)

☑ ▼ 5 or (MENU) 2 5 → To display the Resident On screen, 3 1 → 1 (Application) → Highlight the required software → ○

Setting the resume/suspend time (M25312/M25313)

☑ ▼ 5 or (MENU) 2 5 → To display the Resident On screen, 3 1 → 2 (Resume time) or 3 (Suspend time) → Appropriate key for the required time

Storage info (M254)

You can display the number of Java™ applications currently stored in your phone and the size of free memory.

☑ ▼ 5 or (MENU) 2 5 → To display the Storage info screen, 4

Access to Java™ download site (M255)

You can download desired Java™ applications from Java™ download sites.

☑ ▼ 5 or (MENU) 2 5 → 5 → Highlight the desired application → SK1 → Check the application details → To start downloading, SK1

📄 After downloading a Java™ application, make sure to check that the downloaded program is displayed in the Java™ application list screen.

📄 Up to 20 applications can be downloaded. If you wish to download a new application when there are already 20 downloaded applications in your phone, delete an application in advance.

Message (M3)

Message overview

Message services

Your phone supports the following messaging services:

- **Short Messaging Service (SMS)** allows you to send short messages (160 half-pitch characters max.) to one or more phone numbers. To send an SMS message, the destination phone number must be a mobile phone with an SMS service subscription. SMS service also supports Enhanced Messaging Service (EMS) for which the maximum length of the message you can send depends on the number of linked messages (maximum of 10 linked messages are available).
- **Email** allows you to send messages with attachments to not only other cellphones but also to PCs and other devices that use Email addresses. Attachable files include texts, sounds, pictures, animation, and videos. There are two types of Email server: POP3 server is used when receiving Email messages and SMTP server is used when sending Email messages.
- **Multimedia Messaging Service (MMS)** is a service that allows you to send messages with multimedia files attached. You can attach image, sound and video files to an MMS message. When you receive an MMS message, you will be notified by a message from the MMS centre. You can either automatically or manually receive the contents of an MMS message.



The Message Services are network dependent.

Sending/Receiving messages

While a message is being sent or received, a name (if a name has been stored with the number in your phonebook) or a number will be displayed. The received messages are stored on the SIM card or in your phone memory. When you receive a message, your phone will ring, the message icon will be shown on your phone's display and its LED will glow.



Please delete the unnecessary messages in the folders from time to time. The phone cannot receive any messages when the Inbox folder is full.

Message screen

- Press SK1 or (MENU) 3 to display the Message screen
- To create a new message, press SK1
- To check for new Email, press SK2
- To display the list of messages in each folder, press the appropriate key for the required folder

No.	Message screen menu	
1	Inbox	The received messages are stored here.
2	Drafts	The messages currently being edited are stored here.

No.	Message screen menu	
3	Outbox	The messages that failed to be sent are stored here.
4	Sent	The sent messages are stored here.
5	Alert inbox	The received alert messages are stored here. You can also display the received alert messages by pressing 4 4 1 from the standby screen.
6	CB	The received broadcast messages are saved. See "Cell broadcast (M36)" on page 50 for details.
7, 8	Folder1/Folder2	The messages moved by Move msg (see "Message list Options menu" on page 43) are stored here.

If there is no message in a message list, the list will be displayed in gray and you cannot select it.

Reading a message (M31)

- To display the Message view screen of a new message, press SK1 or 3 → Press 1 → Highlight the new message →
- The new (unread) messages are displayed in bold. If the message cannot be displayed in one page, use ▲ and ▼ to scroll through the message. The following icons will be displayed.

Icon type	Icons	Descriptions	Icon type	Icons	Descriptions
Message type icons		MMS message with no attachment	Read / Unread status icons		New / Unread message(s)
		MMS message with attachment			Read message(s)
		MMS message on the server	Filtering status icons		SMS messages filtered by status (incomplete)
		MMS delivery report			SMS messages filtered by location (SIM)
		SMS message			SMS messages filtered by location (the phone memory)
		Incomplete SMS message			Filtered SMS messages
		Email message with no attachment			Filtered MMS messages
		Email message with attachment			Filtered Email messages
Sorting status icons		Messages sorted by Date	MMS priority icons		MMS message with high priority
		Messages sorted by Name			MMS message with low priority
		Messages sorted by Read/Unread status	Sent message status icons		Sent but failed message
		Messages sorted by Size			Sent message
		Messages sorted by Ascending order	Storing location icons		Highlighted message stored in SIM
		Messages sorted by Descending order			Highlighted message stored in the phone memory

Message Options menu

 SK1 or  3  

No.	Message Options menu			
1	SMS settings	1	SMS centre	Edits the SMS centre number (this number is saved in the SIM card).
		2	Auto display	Turns on/off the automatic display function that displays the received SMS messages automatically.
		3	Receipt request	Selects whether to request a receipt of the sent SMS messages.
		4	Max linked msgs	Sets the maximum number of linked SMS messages. This function divides an SMS with the message text exceeding the maximum number of characters allowed into multiple messages.
		5	Validity period	Selects the period of time an SMS message is stored at the SMS centre, while trying to deliver the message.
2	MMS settings	 To display the Msg settings screen, press 1.		
		1	Delivery report	Sets the status of delivery.
			1 Receipt request	Sets to request a receipt of the sent MMS message.
			2 Auto send	Sets to automatically send out a receipt for the received MMS message.
		2	Auto receive	Selects whether to receive the MMS messages manually or automatically.
		3	Validity period	Selects the period of time an MMS message is stored at the server, while trying to deliver the message.
		 To display the MMS profiles screen, press 2.		
		–	Connection profile	Sets the Internet connection for sending or receiving MMS messages. See “Setting the Connection profiles” on page 52.
3	Email settings	Changes the settings for the Email messaging function.		
		1,2	Account1/ Account2	Sets the Email account for two different Email addresses.
			1 Account details	Sets Mail, Name, Email address, or Reply to address.

No.	Message Options menu							
3	Email settings (Continued)	1.2	Account1/ Account2 (Continued)	2	POP3	Sets POP3 server to receive the Email messages.		
						1	POP3 server	Sets POP3 server address to receive Email messages.
						2	POP3 port override	Sets the POP3 port number.
						3	Leave on server	Selects whether to leave the downloaded Email message on the server or not.
				4	Login	Sets the POP3 user ID and password to login to the account.		
				3	SMTP	Sets the SMTP server to send the Email messages.		
						1	SMTP server	Sets the SMTP server address to send Email messages.
						2	SMTP port override	Sets the SMTP port number.
						3	Authentication	Sets the authentication to on or off.
				4	Login	Sets the SMTP user ID and password to login to the account.  You can also set them the same as those of POP3.		
		3	Default account	Sets the default accounts for sending and checking the Email messages.				
		4	Send option	Selects whether to send an Email message immediately or later.				
		5	Received message size	Sets the maximum size to download an Email message.				
		6	Connection profile	Sets the Internet connection for sending or receiving Email messages. See “Setting the Connection profiles” on page 52.				
4	CB settings	1	Enable	1 to receive none, 2 to receive all, or 3 to specify a list or Cell Broadcast Message Identifier (CBMI) to receive broadcast from.				
		2	Languages	Selects which language(s) to receive the cell broadcast messages in.				
5	View msg status	Displays the information on the number of messages in the phone, the size of used/free memories, SMS units in the phone/SIM, and complete/incomplete SMS units.						
6	Rename folder	Renames Folder1 and Folder2.						
7	View all	Displays all the messages in all folders on the same list.						

No.	Message Options menu	
8	Msg filter	Sets the type(s) of messages to be displayed by selecting the desired filter option.

 The receipt request, linking of SMS messages and delivery report facilities are network dependant.

 Depending on the selected folder, some options may be displayed in gray and not be available.

Message list Options menu

 Display the message list in the Inbox, Drafts, Outbox, Sent, Alert inbox, CB, Folder1 or Folder2 → 

No.	Message list Options menu	
1	Reply	Replies to the sender of the highlighted message.
2	Reply all	Replies to the sender and all other recipients of the highlighted message.
3	Delete	Deletes the highlighted message.
4	Delete all	Deletes all the messages in the current folder.
5	Forward	Forwards the message text of the highlighted message.
6	Msgs/page	Selects either to display 3 or 7 messages in one screen.
7	Move msg	Moves the highlighted message to Inbox or Folder1/2, or copies to SIM/Phone.
8	Sort msg	By: Sorts the messages by date, name, read/unread status or size. Order: Sorts the messages in ascending or descending order. Method: Sorts the messages alphabetically or by the number of Chinese strokes.
9	Search	Searches messages alphabetically or by the number of Chinese strokes.  To switch the search method, change Method in Sort msg.
0	View details	Displays the detailed information on the highlighted message.
–	Add desktop icon	Creates a desktop icon of the sender or recipient of the highlighted message (Inbox, Sent, Folder1/Folder2, and Drafts only).
–	Edit	Edits the highlighted message (Drafts and Outbox only).
–	Resend	Resends the highlighted message in the folder (Outbox only). The entire message or only the packets that failed to reach the recipient(s) can be resent.

 Depending on the selected folder, the menu number and available options may vary.

 Depending on the selected folder, some options may be displayed in gray and not be available.

Message view Options menu

- ☛ Display the message list in the Inbox, Drafts, Outbox, Sent, Alert inbox, CB, Folder1 or Folder2 → Highlight a message →  →  (MENU)

No.	Message view Options menu	
1	Reply	Replies to the sender of the highlighted message.
2	Reply all	Replies to the sender and all other recipients of the highlighted message.
3	Delete	Deletes the highlighted message.
4	View details	Displays detailed information on the highlighted message.
5	Forward	Forwards the message text of the highlighted message.
6	Save object	Saves the highlighted object to a folder in My favorites.
7	Attachments	Displays the list of attached files.
8	Move msg	Moves the highlighted message to Inbox or Folder1/2, or copies to SIM/Phone.
9	Highlight mode	Activates the Highlight mode (see "Highlight mode" on page 50 for details).
0	Option mode	Activates the Option mode to highlight the phone number, Email address, URL or attached file.
*	Add desktop icon	Creates a desktop icon of the sender or recipient of the highlighted message.

 Depending on the conditions, some options may be displayed in gray and not be available.

 The reply facility uses the phone number of the person who sent the message.

 The Save object Options menu will be displayed only if an object is highlighted.

Option mode Options menu

- ☛ Display the message list in the Inbox, Drafts, Outbox, Sent, Alert inbox, CB, Folder1 or Folder2 → Highlight a message →  →  (MENU) 0 / ◀/▶ to highlight a phone number, Email address, URL or attached file in the message →  (MENU)

The columns show the menu numbers for P: Phone number highlighted, E: Email address highlighted, U: URL highlighted and A: Attachment highlighted.

 When an object in the Email is highlighted, the Message view Options menu with menu No. 0 as View mode is displayed.

P	E	U	A	Option mode Options menu	
1	1	–	–	Add to phonebook	Adds the highlighted phone number or Email address to a phonebook.
2	–	–	–	Dial phone number	Dials the selected phone number.
–	–	1	–	Add to bookmark	Adds the highlighted URL to the bookmarks.
–	–	2	–	Launch browser	Activates the web browser to access the highlighted URL.

P	E	U	A	Option mode Options menu	
3	2	–	–	Create message	Creates a new message with the highlighted phone number/Email address in the To field.
4	3	–	–	Add desktop icon	Creates a desktop icon of the highlighted phone number/Email address.
–	–	–	1	Attachments	Displays the list of attached files.
5	4	3	2	View mode	Deactivates the Option mode.

Creating a message



Help area

This area contains the information on the message. S indicates the size of the message equivalent to the number of SMS messages, and R indicates the remaining number of characters available.

- SK1 twice/press and hold SK1/ **(MENU)** 3 and SK1
- 1 to create a new SMS, 2 to create a new MMS, or 3 to create a new Email
- To address the message, highlight the To field → **○** → Input the required phone number or Email address → **○**
- To scroll the phone numbers in the To field, **◀** or **▶**
- To key in the message, highlight the Message field → **○** → Key in the message → **○**
- Pressing **(MENU)** while keying in the To/Message field displays the Message edit Options menu screen.
- SK1 to send the message
- When you are in the ABC (normal text) mode, any word entered that is not in the T9® dictionary will be added automatically.
- When you are keying in your message, press SK1 to change the text entry mode.
- If you display another screen or receive a call while you are editing a message more than 1 character, the message will be saved automatically in Drafts.

↑ (green)	Indicates that an upper case letter will be input next.
↑ (red)	Indicates the capital lock.
↔ (no arrow)	Indicates that a lower case letter will be input next.

Message composer Options menu

To/Subject field Options menu

- SK1 twice/press and hold SK1/ **(MENU)** 3 and SK1 → Press 1, 2, or 3 → Highlight the To or Subject field → **(MENU)**
- The columns show the menu numbers for:
 - To: The To field highlighted when creating a new SMS/MMS/Email message.
 - S: The Subject field highlighted when creating a new MMS message.

- E: The Subject field highlighted when creating a new Email message.

To	S	E	To/Subject field Options menu																
1	–	–	Add/Edit	Adds or edits a recipient phone number/Email address in the To field.															
–	1	1	Edit	Edits the subject of a message.															
2	2	2	Preview msg	Displays the message preview screen.															
3	3	3	Delete	Deletes the highlighted recipient phone number/Email address or subject.															
4	4	4	Delete all	Deletes all the recipients phone numbers/Email addresses.															
5	5	5	Save	Saves the message in Drafts folder.															
6	6	–	Phonebook	Displays the phonebook list to insert a recipient phone number/Email address (To field only).															
7	7	–	Resend list	Inserts a phone number/Email address from the resend list (To field only).  You can delete the highlighted phone number from the resend list or the entire resend list by pressing  1 or  2 respectively.															
8	8	–	Insert	Inserts a new recipient phone number/Email address.															
9	9	–	Address list	Displays the recipient(s) of the message (To field only).															
–	–	6	Add item	Adds picture, movie, sound, or text to the Email message.															
–	–	7	Attachments	Displays the list of attachments. (See “Email Attachments list Options menu” on page 48 for details).															
0	0	8	Msg options	 This option is available only when creating an MMS or Email message. When creating an MMS message: <table><tr><td>1</td><td>Priority</td><td>Selects the message priority.</td></tr><tr><td>2</td><td>Delivery date</td><td>Sets the delivery date.</td></tr></table> When creating an Email message: <table><tr><td>1</td><td>Send option</td><td>Selects whether to send an Email message immediately or later.</td></tr><tr><td>2</td><td>Send account</td><td>Chooses which account to send the message.</td></tr><tr><td>3</td><td>Priority</td><td>Selects the message priority.</td></tr></table>	1	Priority	Selects the message priority.	2	Delivery date	Sets the delivery date.	1	Send option	Selects whether to send an Email message immediately or later.	2	Send account	Chooses which account to send the message.	3	Priority	Selects the message priority.
1	Priority	Selects the message priority.																	
2	Delivery date	Sets the delivery date.																	
1	Send option	Selects whether to send an Email message immediately or later.																	
2	Send account	Chooses which account to send the message.																	
3	Priority	Selects the message priority.																	
*	–	–	Move	Moves the highlighted phone number/Email address to the To/Cc/Bcc field.  This option is available only when the phone number/Email address is highlighted in the To field list screen.															

 Depending on the conditions, some options may be displayed in gray and not be available.

Message/Slide/Attachment field Options menu

☛ SK1 twice/press and hold SK1/ 3 and SK1 → 1, 2 or 3 → Highlight the Message/Slide/Attachment field → 

☛ The columns show the menu numbers for:

- S: The Message field highlighted when creating a new SMS message.
- M: The Slide field highlighted when creating a new MMS message.
- E: The Message or Attachment field highlighted when creating a new Email message.

S	M	E	Message/Slide/Attachment field Options menu	
1	1	1	Edit	Edits the message.
2	2	2	Preview msg	Displays the message preview screen. ☛ When previewing an MMS message, it displays the created slides in order from the beginning at the preset playback time for each.
3	3	3	Delete	Deletes the highlighted slide or message.
4	4	4	Delete all	Deletes all the slides or attachments.
5	5	5	Save	Saves the message in Drafts folder.
6	–	–	Phonebook	Displays the phonebook list to insert a recipient phone number/Email address.
7	–	–	Resend list	Inserts a phone number/Email address from the resend list.
–	6	–	Insert object	Inserts Text, Sound, Still image, Animation, Emoticon or Video into the slide.
–	7	–	Copy	Copies the highlighted slide. ☛ Highlight the slide you want to copy →  7 → Highlight the place you want to copy the slide to → SK1
–	8	–	Move	Moves the highlighted slide. ☛ Highlight the slide you want to move →  8 → Highlight the place you want to move the slide to → SK1
–	9	–	New slide	Inserts a new slide just before the currently highlighted slide.
–	0	–	Duration	Sets the length of time a slide is displayed when previewing the MMS message.
–	–	6	Add item	Adds picture, movie, sound, or text to the Email message.
–	–	7	Attachments	Displays the list of attachments. (See “Email Attachments list Options menu” on page 48 for details).
–	*	8	Msg options	See “Msg options” on page 46 for details.

☛ Depending on the conditions, some options may be displayed in gray and not be available.

Email Attachments list Options menu

SK1 twice/press and hold SK1/MENU 3 and SK1 → Press 3 → Highlight the Attachments/Message field and press MENU 7 or highlight the attachment field and press 0 → MENU

No.	Email Attachments list Options menu	
1	Add item	Adds picture, movie, sound, or text to the Email message.
2	Save item	Saves an attachment of the Email message in a folder.
3	Delete item	Deletes an attachment from the Email message.
4	Delete all	Deletes all attachments of the Email message.
5	Rename item	Renames an attachment of the Email message.
6	Copy item	Copies the highlighted attachment.
7	Copy all	Copies all the highlighted attachments.
8	Move	Moves the highlighted attachment or all the attachment to another field or folder.
9	Create folder	Creates a new folder.
0	Storage detail	Displays the storage information.
*	View detail	Displays detailed information on the highlighted attachment.
#	Options	See "File selector Options menu" on page 35 for details.

 Depending on the conditions, some options may be displayed in gray and not be available.

Message composer icons

The following icons will be displayed at the bottom of the Message composer screen.

Icons	Descriptions	Icons	Descriptions
	The plain MMS message		MMS message with text(s) and video(s)
	MMS message with text(s)		MMS message with text(s), picture(s) and sound(s)
	MMS message with picture(s)		MMS message with picture(s) and sound(s)

Icons	Descriptions	Icons	Descriptions
	MMS message with sound(s)		Email message with no text(s)
	MMS message with video(s)		Email message with text(s)
	MMS message with text(s) and picture(s)		Email message with no attachment(s)
	MMS message with text(s) and sound(s)		Email message with attachment(s)  The number in the icon indicates the number of attachments.

Message edit Options menu

 SK1 twice/press and hold SK1/ 3 and SK1 → Press 1, 2, or 3 → Highlight To or Message field →  → 

No.	Message edit Options menu	
1	Text colour	Selects the colour of text and background.
2	Text format	Selects the font size (small, normal or large) and font style (bold, italics, underline or strikethrough).
3	Text alignment	Sets the text alignment (left, centred or right).
4	Paste	Pastes the text which has been copied onto the clipboard in the Highlight mode.  This function can be used only when text has been copied or cut in the Highlight mode.

No.	Message edit Options menu																												
5	Highlight mode	Activates the Highlight mode at the cursor position. You can also activate the Highlight mode by pressing and holding *. This function can only be used when text has been entered. To toggle the Highlight mode on/off, SK1 and to go back to the normal mode, CLR To display the following Highlight mode Options menu, (MENU). <table border="1"> <tr> <td>1</td><td>Text colour</td><td>Selects the colour of text and background.</td></tr> <tr> <td>2</td><td>Text format</td><td>Selects the font size (small, normal or large) and font style (bold, italics, underline or strikethrough).</td></tr> <tr> <td>3</td><td>Copy</td><td>Copies the highlighted part of text onto the clipboard.</td></tr> <tr> <td>4</td><td>Cut</td><td>Cuts the highlighted part of text.</td></tr> <tr> <td>5</td><td>Delete</td><td>Deletes the highlighted part of text.</td></tr> <tr> <td>6</td><td>Select word</td><td>Selects (highlights) the nearest word to the current cursor position.</td></tr> <tr> <td>7</td><td>Select paragraph</td><td>Selects (highlights) the nearest paragraph to the current cursor position.</td></tr> <tr> <td>8</td><td>Select all</td><td>Selects (highlights) the entire text.</td></tr> <tr> <td>9</td><td>Save to text file</td><td>Saves the highlighted part of text as a text file.</td></tr> </table>	1	Text colour	Selects the colour of text and background.	2	Text format	Selects the font size (small, normal or large) and font style (bold, italics, underline or strikethrough).	3	Copy	Copies the highlighted part of text onto the clipboard.	4	Cut	Cuts the highlighted part of text.	5	Delete	Deletes the highlighted part of text.	6	Select word	Selects (highlights) the nearest word to the current cursor position.	7	Select paragraph	Selects (highlights) the nearest paragraph to the current cursor position.	8	Select all	Selects (highlights) the entire text.	9	Save to text file	Saves the highlighted part of text as a text file.
1	Text colour	Selects the colour of text and background.																											
2	Text format	Selects the font size (small, normal or large) and font style (bold, italics, underline or strikethrough).																											
3	Copy	Copies the highlighted part of text onto the clipboard.																											
4	Cut	Cuts the highlighted part of text.																											
5	Delete	Deletes the highlighted part of text.																											
6	Select word	Selects (highlights) the nearest word to the current cursor position.																											
7	Select paragraph	Selects (highlights) the nearest paragraph to the current cursor position.																											
8	Select all	Selects (highlights) the entire text.																											
9	Save to text file	Saves the highlighted part of text as a text file.																											
6	Insert object	Inserts Text, Sound, Still image, Animation, Emoticon, or Video into the message at the cursor position.																											
7	T9 Language	Selects the language for T9® text input.																											
8	Edit settings	Sets the Write mode (Insert or Overwrite) and Clear mode (Backspace or Delete).																											

Depending on the conditions, some options may be displayed in gray and not be available.

Cell broadcast (M36)

Cell Broadcast (CB) messages (e.g. weather reports, news) are sent by the network to all phones in a certain area.

(MENU) 3 6

The Cell broadcast message display on the standby screen is erased by pressing **CLR**.

Broadcast messages service is network dependent. Please contact your service provider for details.

Monternet (M4)

To access WAP service, you would need to:

- 1 Apply for WAP service before accessing WAP. You can choose General Packet Radio Service (GPRS) or Circuit Switched Data (CSD) as the data bearer for WAP access. The connection speed of GPRS is faster than CSD. For more details or subscription of WAP service, please contact your network service provider.
- 2 Set up WAP service settings in your phone.



What can I download

Your phone supports the downloading of the following different types of content:

- Sound files (including ringer melodies, video sound, etc.)
- MP3
- Pictures
- Animation
- Video
- Java™ applications

 For the handling of the downloaded data, see "My favorites (M2)" on page 31.

 For details on downloading Java™ applications, see "Access to Java™ download site (M255)" on page 38.

 If you have not enough memory left on your phone for the downloaded file, a message will be output and you cannot download the file. Make sure you have enough memory space before downloading any file.

Web settings

To set up your phone to access WAP information on the Internet, use the following procedures.

Setting your connection profile and homepage

Your phone has been preset with a list of GPRS and CSD WAP proxy of different service provider. Also you can set your favourite URL as the homepage.

To display the list of available connections, you can use the following procedure.

-   4 7 1 →  → Highlight the required connection name →  → SK2
-  Highlight Enter homepage field →  → Enter the URL → 

 You can also choose which type of connection you require: CSD or GPRS. Please contact your service provider before setting.

 The connection with a ✓ next to its name will be the connection used when you make a WAP connection.

Setting the Connection profiles

To alter or enter information into a connection (profile), use the following procedure.

  4 7 1 → Highlight Connection profiles field →  → Highlight a connection name →  to display the Profile options menu.

No.	Profile options menu	
1	Add new	Creates a new profile.
2	Copy	Copies the current profile to use it as a template to create a new profile.
3	Edit	Edits the current profile.
4	Delete	Deletes the current profile.

Adding a new profile

 To add a new profile,  4 7 1 → Highlight Connection profiles field →  → SK1 or  1

 Key in the proxy title → 

No.	Profiles settings menu	
1	Load preset	Chooses a profile to load the settings from.
2	Profile title	Sets profile's name.
3	IP address	Sets IP address. If you do not have an IP address, please contact your network provider.
4	Bearer type	GPRS: Always connects by GPRS. CSD: Always connects by CSD.
5	GPRS settings	AP name: Edits the address of the external data network you want to connect to, either an IP address or a text string. User name: Edits your user ID to enable you to log on to the external data network. Password: Edits your password to enable you to log on to the external data network.  The GPRS setting will be grayed-out if CSD is set as bearer.

No.	Profiles settings menu (Continued)	
6	CSD settings	Connect type: Selects the connection line type: ISDN or Modem. Dial-up number: Sets the dial-up number. User name: Edits your user ID to log on to the external data network. Password: Edits your password to log on to the external data network. <i>The CSD setting will be grayed-out if GPRS is set as bearer.</i>
7	DNS address	Dynamic: Sets to use the dynamic DNS server address. Static: Sets the static DNS server address.
8	Port number	HTTP: Sets the HTTP port number. HTTPS: Sets the HTTPS port number.
9	Authentication	Selects the authentication type from Normal or Secure.
0	Usage	Displays the name of the application currently used.

When you have finished entering or editing the connection information, press SK2. The connection list will be displayed.

If you select the read-only proxy, Edit function is disabled.

For more details of profile settings, contact your network service provider.

Setting the CSD linger time

The linger time facility will disconnect a connection that has not been used for a preset amount of time. To set this time delay, use the following procedure.

MENU 4 7 2 → Enter the time delay required → SK1

Web font

You can select the font to be displayed on your phone's screen from Large, Normal and Small.

MENU 4 7 3 → Press the appropriate key for the required font.

Clear cache

If you start a WAP session using the last page visited, the information will be restored from the phone memory. If, however this page has been updated since your last visit, the updated page will not be displayed. To avoid this possibility, clear the memory by the following procedure:

MENU 4 7 4 → SK1

Logging on to WAP site

There are three types of WAP connection:

- Connect to a specific URL
- Connect to the homepage of the default connection
- Connect to the last web page connected before

Connect to a specific URL

To connect to a URL specified by yourself, use the following procedure.

- ☛  4 5 → Key in the desired URL →  to select the typed URL →  to browse the site

Connect to the Home page of the default connection

- ☛  4 1 (for details, see "Setting your connection profile and homepage" on page 51)

Connect to the last web page visited

- ☛  4 6

☛ *When you access the Internet with your phone for the first time or after you cleared the memory, the homepage set for Web/MMS profile will be the page to be accessed.*

Other features

Bookmark

- ☛  4 2
- ☛ To display the list of bookmarked pages, 1
- ☛ To reset the bookmarked pages, 2

Snapshot

The Snapshot function allows you to store up to 10 web pages and view them offline.

- ☛  4 3
- ☛ To display the list of stored snapshots, 1
- ☛ To delete all the stored snapshots, 2

☛ *The above operation is available only when one or more Snapshot data has been stored.*

☛ *To take a snapshot, you need to access the Snapshot screen while browsing a WAP site.*

☛ *Stored snapshot data can only be used for the snapshot function.*

Alert message

  4 4

 To display the list of received Alert messages, 1

 To delete all those messages, 2

 You can also display the received Alert messages by pressing  3/SK1 → 5.

NEC Web site

Your phone is also supported by a Web site at www.necdream.com.cn. Access this site from your phone and you can select and download content from the wide variety available. So, you do not need a PC to take advantages of these great new services.

Further information

For more details, visit www.necdream.com.cn on your PC or your phone.

GPRS dial up

With GPRS dial up service, you can access the Internet or read Emails from your PC through your phone. Use your phone as a modem to connect to a compatible PC through a PC Link cable (option), Bluetooth or the IR port to enable GPRS Internet dial up service.

For more detailed procedures, please visit our company homepage.

 See also "Bluetooth (M891)" on page 77 and "IR modem (M8922)" on page 81.

 Before using this service, you would be required to subscribe to a GPRS service and buy a PC link cable and CD-ROM.

China Mobile in/Customer service (M5/M6)

China Mobile in

From China Mobile in, you can access the various fun services provided by your network provider, and the SIM toolkit function. Please consult your network service provider for details.

 SK2 or  5

Customer service

From Customer service, you can access the customer support centre. Please consult your network service provider for details.

  6

Phonebook (M7)

Phonebook types

Your phone can have up to 7 directories stored on your SIM card and in your phone memory:

- Complete (a list of all the numbers stored in the ADN and FDN)
- Personal directories (ADN) in the SIM card
- Personal directories (ADN) in the phone memory
- Service dialling numbers (SDN)
- Fixed dialling numbers (FDN)
- Own number
- Voice mail number

 When viewing any of the directories described, you can switch to the other directories (if your SIM card supports them) by pressing .

 The maximum number of phone numbers that can be stored on a SIM card is the total of the ADN, FDN and SDN directories.

 When you activate the phonebook, the directory which you were referring to the last time will open.

Personal directory (ADN)

These numbers are known as abbreviated dialling numbers (ADN). There are two types of ADN, one is the phonebook stored in the phone memory (the phonebook (Phone)) and the other is the phonebook stored on the SIM card (the phonebook (SIM)).

Phonebook (SIM)

- Up to 255 personal data can be stored in the SIM card.
- Each personal data contains a phone number, a name and a location number.

 The number of phone numbers that can be stored on a SIM card depends on the SIM card capability.

Phonebook (Phone)

Up to 500 personal data can be stored in your phone memory. Each personal data is given a location number (1 to 500), and it can be allocated to a group.

To each personal data, you can set the following:

- 7 phone numbers (Home, Mobile, Work, Data, Fax, Other phone x 2)
- 2 Email addresses
- 2 descriptive information
- Group, Voice tag, LED colour, Picture/Video, Ringer and Location number

Up to 10 phone numbers can have a voice recognition recording allocated to them.

Fixed dialling numbers (FDN)

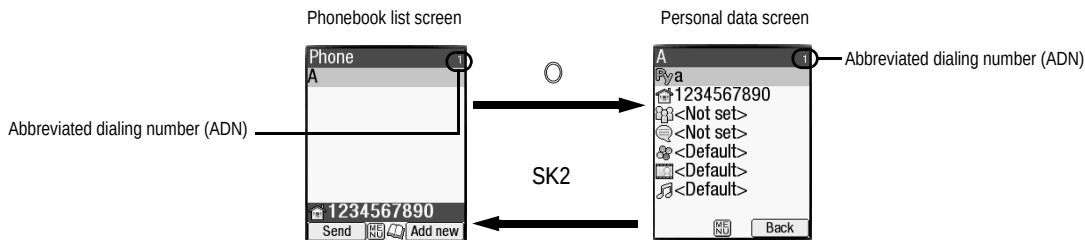
Fixed dialling numbers are a means of limiting which numbers can be called from your phone. With the FDN feature switched on (see page 29), you can call with your phone the numbers you have stored in this phonebook and the emergency number only.

Although FDN is supported by your phone, it must be present on your SIM card - check with your service provider.

Service dialling numbers (SDN)

The numbers stored in the SDN directory are pre-installed by your service provider. They will call numbers and services as agreed with your supplier (e.g. customer enquiries, billing information, sportslines, weatherlines, etc.) and cannot be edited by you.

Although SDN is supported by your phone, it must be present on your SIM card - check with your service provider.



Accessing your phonebook (M7)

You can store personal information in the phonebook of your phone or your SIM card.

Displaying a personal data (M71)

Press **(MENU)** 7 1 and the appropriate key for the desired directory or until the required directory is displayed → Highlight the required personal data →

Displaying information about your phonebook (M72)

Press **(MENU)** 7 2 to display the information about your phonebook.

This function is SIM dependent.

Phonebook list Options menu

  7 1 and the appropriate key for the desired directory or  until the required directory is displayed → Highlight the required personal data → 

No.	Phonebook list Options menu			
1	Add new	Adds a new personal data to Phone/SIM/FDN.		
2	Edit	Displays the data edit screen to edit the currently highlighted personal data.  When editing the data in FDN, you will be prompted to enter PIN2 code.		
3	Copy	Copies personal data to another phonebook (see “Copying and moving personal data” on page 63 for details).		
		1	Current copy	Copies the currently highlighted personal data.
		2	Package copy	Copies the selected data in the list.
4	Move	Moves the currently highlighted personal data to SIM, Phone, FDN, Own number or Voice mail number.		
5	Delete	Deletes personal data.		
		1	Delete current	Deletes the currently highlighted personal data.
		2	Delete all	Deletes all the data in the list.

No.	Phonebook list Options menu			
6	Groups	Editing the group information		
		- Highlight the group you wish to edit → SK1 and highlight the required field - To rename the group name, select Group name field → Key in the name of the group → ○ - To set information on the selected group, select Info field → Key in the info → ○ - To select the LED colour, select LED field → 1 → Highlight the desired colour → ○ - To select the CLI picture/video, select Picture/Video field → 1 for Picture or 2 for Video → Highlight the desired picture or video → ○ - To select the ringer, select Ringer field → 1 for Sound, 2 for Video or 3 for MP3 → Highlight the desired ringtone, video or MP3 → ○ - SK1 to set the change  If the personal settings for the LED colour, CLI picture/video, or the ringer are also set, they have priority over those of the Group settings.		
		Group member list screen Options menu		
		Highlight the group you wish to edit → ○ to display the list of group members → Highlight the member → 		
		1	Call	Calls the highlighted member.
		2	Create message	Creates a new message to the highlighted member.
		3	Add new	Creates a new phonebook entry to join the group.
		4	Add to group	Adds a phonebook entry to the group.
		5	Remove from group	Removes the highlighted member from the group.
		6	Remove and delete	Removes the highlighted member from the group and delete the phonebook entry at the same time.
7	Add desktop icon	Creates a desktop icon of the phone number/Email address of the highlighted member.		

No.	Phonebook list Options menu	
7	Sort	Sorts the personal data in the order of alphabets, location number, or by the number of strokes. <i>Sorting may take time depending on the number of personal data entries, the number of characters contained in each entry and the type of language.</i>
		1 Alphabetic Sorts the personal data alphabetically. <i>You can jump directly to a name beginning with specific characters by pressing the appropriate key (e.g. press 5 once to jump to names beginning with J, or twice to jump to names beginning with K).</i>
		2 Location Sorts the personal data in memory location number.
		3 Stroke Sorts the personal data by the number of Chinese strokes.
8	Location	Searches for the personal data by the location number. Key in the desired location number → SK1 to display the Phonebook list screen with the selected personal data highlighted.
9	Show	Displays phonebook information.
		1 Summary Displays the summary of phonebook contents. 2 Voice tag list Displays the phonebook entry names with the voice recognition tags recorded.
0	IR send	Sends the currently highlighted personal data to another device through the IR port. <i>See also: "IR send" on page 80.</i>
*	Add desktop icon	Creates a desktop icon of the highlighted personal data.

Depending on the conditions, some options may be displayed in gray and not be available.

Making a call or creating a message from the phonebook list

- Highlight a desired personal data to display the stored numbers or Email addresses in the help area → Use ◀ and ▶ to display the other stored phone numbers or Email addresses, if any, in the help area.
- Press to make a phone call to the displayed phone number, or press SK1 to send a new message to the phone number or Email address

Adding a new personal data

- 7 1 and the appropriate key for the desired directory, or until the required directory is displayed → SK2 → Select the directory to which you wish to store the personal data → Enter the name and other necessary information → SK1 (see "Editing an existing personal data" on page 62).

You can also input phone numbers on the standby screen and press to add a new personal data.

It is best to store numbers using the international number format.

Editing an existing personal data

- 7 1 and the appropriate key for the desired directory or until the required directory is displayed → Highlight the required personal data → 2
- For the phonebook (SIM) and FDN, only the name, phone number and the location number can be added or edited in the following procedures.
- For the own number and voice mail number settings, only the name and phone number can be added or edited in the following procedures.

Adding/editing phone numbers, Email addresses & personal information

- Highlight the field you wish to edit or add information to →
- Add the required number or information or make necessary changes to the selected field →
- Highlight another field to make further changes, if required
- You can edit the Name, Phone number, Email address and Info fields by the above method.

Allocating a group

- Highlight the Group field → → Highlight the group you wish to add the current personal data to →

Voice recall functions

Adding a Voice recall recording

- Highlight the Voice tag field → → 1
- Say the name you wish to record as a voice tag → Say the name again for confirmation according to the displayed message.

Playing a Voice recall recording

- Highlight the Voice tag field → → 2

Deleting a Voice recall recording

- Highlight the Voice tag field → → 3

Up to 10 voice tags can be stored.

You can check the number of stored voice tag and list of those tags (see "Summary" and "Voice tag list" on page 61).

Allocating a LED colour

- Highlight the LED colour field → → 1 → Highlight the desired colour →
- The personal setting for the LED colour has priority over the Group setting and phone setting for the LED colour.

Allocating a picture or video as a CLI

You can set a picture or video to be displayed on the screen as a Call Line Identity (CLI) for an incoming call.

- Highlight the Picture/Video field → → 1 to display the picture list screen or 2 to display the video list screen
- Highlight the desired picture/video → SK1 to preview the picture/video or to select the highlighted picture/video

- A ✓ is displayed on the icon for which the item is currently selected.
- If an MP3 file is set as a ringer in Phone mode and a CLI video is also set, the default picture, instead of the CLI video, will be displayed with the MP3 file.
- See also: "Ringer" on page 25 and "Pictures (M23)" on page 32.

Allocating sound/video/MP3 as a ringer

You can set a sound, video or MP3 as a ringer for an incoming call. When a video is set, a movie is displayed on the screen with the sound.

- Highlight the Ringer field → → 1 to display the sound list screen, 2 to display the video list screen or 3 to display the MP3 list screen
- Highlight the desired sound, video or MP3 → SK1 to preview the file or to select the highlighted file
- A ✓ is displayed on the icon for which the item is currently selected.
- If the video as a ringer is set, it will sound and will be displayed on the screen regardless of the CLI picture/video setting.
- See also: "Sounds (M22)" on page 31.

Allocating a location number

- Highlight the Location number field → → Key in the desired location number →

Saving the edited personal data

- After editing the required field, SK1 to save the edited data and return to the previous screen.

Copying and moving personal data

- 7 1 and the appropriate key for the desired directory or until the required directory is displayed → Highlight the required personal data/list of data → 3 to copy or 4 to move
- For copying, 1 to copy the highlighted personal data or 2 to copy all the personal data in the current list
- Press the appropriate key for the desired destination (SIM, Phone, FDN, Own number or Voice mail number)
- If you copy or move from phonebook (Phone), the Origin number screen will be displayed to choose which phone number to copy.
- If you copy or move to phonebook (Phone), the Number type screen will be displayed to choose which phone number type to copy to.
- Key in the desired location number →

Personal data Options menu

- 7 1 and the appropriate key for the desired directory or until the required directory is displayed
- Highlight the required data → → Highlight the required field →

No.	Personal data Options menu	
1	Call	Calls the highlighted phone number.

No.	Personal data Options menu (Continued)	
2	Create message	Creates a new message to the highlighted phone number or Email address.
3	IR send	Sends the selected personal data to another device through the IR port.
4	Edit	Edits the selected personal data.
5	Copy	Copies the selected phone number(s)/Email address(es).  Press the appropriate key for the desired destination (SIM, Phone, FDN, Own number or Voice mail number) → Key in the desired location number → 
6	Move	Moves the currently highlighted personal data.  Press the appropriate key for the desired destination (SIM, Phone, FDN, Own number or Voice mail number) → Key in the desired location number → 
7	Delete current	Deletes the selected personal data.
8	Add desktop icon	Creates a desktop icon of the selected personal data.

 See also: "Phonebook list Options menu" on page 59 for the operation of 4 (Edit), 5 (Copy), 6 (Move) and 7 (Delete current).

Voice mail (M717)

Voice mail function enables you to forward received calls to the Voice mail centre, and the caller can leave voice messages in your voice mail mailbox. You may be notified by an icon on the standby screen if the caller leaves a voice message.



The voice mail service is network dependent. Contact your service provider for details on your voice mail number.

Setting the Voice mail number



This function is available when the Voice mail number has not been set.

  7 1 7 → Highlight the required line →  twice →  → key in the voice mail number →  → SK1 to save the change.

Forwarding a call to the Voice mail centre

 Set the voice mail centre number (see "Setting the Voice mail number" for details) → Set up Call diversion (see "Call diversion (M161)" on page 13 for details).
When you receive a call set to be diverted, the call will be diverted to the voice mail centre.

Retrieving a Voice mail



This function is available when the Voice mail number has been set.

  7 1 7 → Highlight the required line → 

-  You can also retrieve a voice mail by pressing and holding **1** from the standby screen.
-  To set up the line to call the voice mail centre, see “ALS setup” on page 23 for details.

Accessory (M8)

MP3 player (M81)

This feature allows you to create a Playlist to play MP3 files in the order you desire. You can add MP3 files saved in your phone to the Playlist (see “MP3 (M24)” on page 34) or change the order of the MP3 files within the Playlist.

☰ (MENU) 8 1 → SK1 to play → After playing, SK2 to stop.

☰ To change the volume, Side keys.

☰ To play the previous/next file, ▲ or ▼.

📖 When there are no MP3 files saved in the Playlist, the Playlist screen will be displayed in stead of the MP3 player screen.

📖 When you use a headset, you can start or stop playing by pressing the button on it, and play the next file by pressing and holding it.

MP3 player Options menu

☰ (MENU) 8 1 (MENU)

No.	MP3 player Options menu		
1	Playlist	Displays a list of MP3 files in the order in which they are played.	
		📖 You can save up to 30 MP3 files in the Playlist depending on the size of each file.	
		📖 The MP3 files that are deleted from MP3 of My favorites or erroneous MP3 files are displayed in gray and cannot be played.	
		☰ (MENU) to display the Playlist Options menu below, or SK1 to add an MP3 file.	
		1 Add item	Adds an MP3 file in your phone to the Playlist.
		2 Move item	Moves the highlighted MP3 file in the Playlist.
2	Play mode	3 Delete item	Deletes the highlighted MP3 file from the Playlist.
		4 Delete all	Deletes all the MP3 files from the Playlist.
		5 View detail	Displays the properties (file name, title, artist name and recording time) of the highlighted MP3 file.
		Normal:	Plays all the MP3 files in order from top to bottom of the Playlist once.
3	Equalizer	Repeat all:	Plays all the MP3 files in the Playlist repeatedly.
		Repeat one:	Plays the selected MP3 file repeatedly.
3	Equalizer	Selects from Rock, Jazz, Pop and Off to obtain the desired tone.	
		📖 The selected Equalizer setting applies to all the MP3 files in the Playlist.	

No.	MP3 player Options menu	
4	Add desktop icon	Creates a desktop icon of the MP3 player function on the standby screen.

 Depending on the conditions, some options may be displayed in gray and not be available.

Calculator (M82)

You can perform addition, subtraction, multiplication and division with the calculator. It also has a memory function.

  8 2

 The calculator can display a result of up to 9 digits. If a calculation results in a number exceeding the maximum, the screen displays error in the calculation field.

Calculator Key Assignment

For calculator function, the keys are assigned different functions. The following shows the key assignment:

Key	Operation	Key	Operation
	Addition (+)		Subtraction (-)
	Multiplication (×)		Division (÷)
	Equals to (=)	SK2	Memory Store/Memory Addition
SK1	Memory Recall/Memory Cancel (Press twice)		Percent (%)
	Inversion (±)		Exit calculator
	Decimal Point (.)	CLR	Delete digit (if held, all clear)

 Using the % function, you can calculate $(100 + x)$ % of a figure (e.g. $200 + 5\% = 210$) and $(100 - x)$ % of a figure (e.g. $200 - 5\% = 190$).

Clock alarm (M83)

This feature enables you to switch the clock alarm function on/off and to set the time, repetition and alarm tone.

Turning the alarm on/off

  8 3

Clock alarm setting	
On/Off	Turns on or off the alarm.
Set time	Sets the time and am/pm (for 12 hour format) at which the alarm will sound.

Clock alarm setting (Continued)	
Set alarm tone	Sets the melody to be played when the alarm occurs. See "Sounds (M22)" on page 31.
Alarm repeat	Selects alarm repeat for once, daily or day of the week. You can select more than one day of the week at the same time. You can remove the check by highlighting and pressing again.
Enter alarm text	Sets the message (e.g. Wake up!) which is displayed when the alarm occurs (optional).

When all settings are done, SK1 to save the setting.

The selected melody will be played when the alarm occurs if the ringer is turned on based on the current phone mode. If vibration is turned on, you will be notified of the alarm by vibration.

Even if the phone has been switched off, the phone automatically switches itself on and sounds the alarm or vibrates at the specified time.

You can stop the alarm tone or vibration by pressing any key.

Scheduler (M84)

Scheduler enables you to enter reminders and appointments for particular time and date.

Adding a new event

8 4 → Highlight the day → to display the day's schedule list screen (if any) → SK1

Scheduler setting	
Event date/time	Sets the day, month, year, time and am/pm (for 12 hour format) of the event.
Event end date/time	Sets the day, month, year, time and am/pm (for 12 hour format) of the end of event.
Description	Sets the event description (optional).
Repeat	Selects repeat for One time only, Daily, Weekly or Monthly.
Reminder	Turns on or off the reminder.
Reminder time	Selects the time to set off the reminder prior to the event start time.
Reminder tone	Associates a reminder tone with an event. You can set the reminder tone only when the Reminder is turned on.
Private	Sets the event as a private event. Place a check mark to set the event as a private event. To set the event as a public event, do not place a check mark.

- When all settings are done, SK1 to save the setting.
- The selected melody will be played when the scheduled event occurs if the ringer is turned on based on the current phone mode. If vibration is turned on, you will be notified of the event by vibration.
- If the phone has been switched off, the phone does not switch itself on to sound the reminder or vibrate at the specified time.
- You can stop the reminder tone or vibration by pressing any key.
- If the event is a private event, the reminder will sound at the specified time but the entered description will not be displayed. You are prompted to enter the security code to view the details of the private event.

Viewing the scheduled events

- 8 4 → Highlight a day (SK1 to display the previous monthly/weekly view screen or SK2 to display the next monthly/weekly view screen)
- ○ to display the day's schedule list screen (To display the previous/next day's schedule list screen, ◀ or ▶).
- ○ to display the detail screen of the highlighted schedule.

Setting the reminder again

- When the scheduler reminder is set off, ◀ or ▶ and SK2 to select the time to remind again.

Scheduler Options menu

- (MENU) 8 4 → Highlight the day → ○ to display the day's schedule list screen (if any) → Highlight the required scheduled event → (MENU)

No.	Scheduler Options menu	
1	Add new	Adds a new entry.
2	Edit	Edits the highlighted event.
3	Copy	Copies the highlighted event.
4	Delete	Deletes event(s). Press the appropriate keys for the event category (the currently selected event, all the public/private events on the day, all the past public/private events, all the public/private events or all the events) to delete.
5	Go to date	Displays the selected date.
6	Monthly calendar/ Weekly calendar	Switches the weekly view screen to the monthly view screen, or the monthly view screen to the weekly view screen. • You can select Sunday or Monday to start the week from "Set start day" on page 24.
7	View summary	Displays a summary of all the events.
8	View events	Displays the events. Press the appropriate keys for the event category (Public only, Private only or All) to display. • You are required to key in the security code to display the private events or all events.

No.	Scheduler Options menu (Continued)	
9	IR send	Sends the selected schedule through the IR port to other devices or a cellphone.  The IR send function is not available during a call.

 Depending on the conditions, some options may be displayed in gray and not be available.

ToDo list (M85)

This feature allows you to set up to 100 ToDo tasks that should be finished by a certain date. You can choose to display either all ToDo tasks, or those just finished or unfinished. Each task is identified by a description (of up to 256 characters) and its start/due date.

Adding a new ToDo task

  8 5 → Highlight the list →  → SK1

ToDo list setting	
Start date	Sets the day, month and year to start the ToDo task.
Due date	Sets the date to end the ToDo task. Key in the date or press the appropriate key for the date.  If you select to key in the date yourself, input the day, month and year of the date to end the ToDo task, then SK1.
Description	Sets the ToDo task description (e.g. Pay the rent).
Category	Sets the category (Business, Personal or Other).
Priority	Sets the priority (Normal, Low or High).
Private	Sets the ToDo task as private.

 When all settings are done, SK1 to save the setting.

When a ToDo task is completed

  8 5 → Highlight the list →  → Highlight the required ToDo task →  →  1 and 1, or SK2 to save the task as completed.

Viewing ToDo task details

  8 5 → Highlight the list →  → Highlight the required ToDo task →  → To view the details of the previous or next ToDo task in the list, ◀ or ▶
 To edit the currently displayed task, SK1

ToDo Options menu

 To display the ToDo Options menu,  8 5 → Highlight the list →  → Highlight the required ToDo task → 

☛ To display the ToDo detail Options menu, (MENU) 8 5 → Highlight the list → ○ → Highlight the required ToDo task → ○ → (MENU)

Column L shows the ToDo options menu, and column D shows the ToDo detail Options menu.

L	D	ToDo Options menu	
1	4	Add new	Adds a ToDo task (see "Adding a new ToDo task" on page 70, from the second step).
–	1	Status	Changes the completion status of the highlighted ToDo task.
2	2	Edit	Edits the highlighted ToDo task (see "Adding a new ToDo task" on page 70, from the second step).
3	–	Delete	Deletes ToDo task(s). Press the appropriate keys for the ToDo task category (the currently selected ToDo task, all the public/private ToDo tasks, all the completed public/private ToDo tasks or all the ToDo tasks) to delete.
–	3	Delete current	Deletes the current ToDo task.
4	–	Display filter	Sets the type(s) of ToDo tasks to be displayed by selecting the desired filter option (None, Incomplete or Completed).
5	–	Sort list	Displays a list of ToDo tasks rearranged according to the selected sort key (Due date, Category, Priority, or Status).
6	–	View summary	Displays the number of Incomplete and Completed tasks and how many more tasks can be created.
7	5	IR send	Sends the selected ToDo task through IR port to other devices or a cellphone. ☛ The IR send function is not available during a call.

☛ Depending on the conditions, some options may be displayed in gray and not be available.

Notepad (M86)

Notepad function allows you to record and store a note as a text file.

Creating a new memo (M861)

☛ (MENU) 8 6 1 → Key in text → ○ to save the entry as a text file. The first few words are displayed on the text list screen.

Displaying a memo (M862)

☛ (MENU) 8 6 2 → Highlight a file → SK1 to preview, or ○ to edit

Notepad Options menu

8 6 2 → Highlight a file →

No.	Notepad Options menu	
1	Edit item	Changes the protection settings of the selected file. Rename item: Edits the file/folder name of the selected file/folder. Set protection: Sets the protection settings of the selected folder or file on/off.
2	Use item	Add desktop icon: Creates a desktop icon of the selected file on the standby screen. IR send: Sends the selected file through IR port to other devices or a cellphone. <i>The IR send function is not available during a call.</i>
3	Create message	Creates a new message with the highlighted text (note).
4	Delete item	Deletes the selected file or folder if it is unprotected.
5	Delete all	Deletes all the notes unprotected from the list.
6	Copy item	Copies the selected note.
7	Copy all	Copies all the notes.
8	Move	Moves the selected note or all the notes in the current folder to a folder.
9	Create folder	Creates a new folder under the current folder.
0	Storage detail	Displays the current storage information of your phone memory.
*	View detail	Displays the detail of the selected file. <i>You can also display the details on the highlighted folder or file by pressing * without displaying the Options menu.</i>
#	Options	Sorting order: Sorts the files by date, alphabetically, or by the number of Chinese strokes. Info column: Sets whether to display the column on the list screen, and the information to be shown there. None: No column showing Size: Approximate size of the file Type: File type <i>You can also change the information on the column by pressing # without displaying the Options menu.</i> Flat view: Displays the list of all the stored files regardless of the folder hierarchy. Save options: Saves the current option settings. Reset options: Resets the option settings.

Depending on the conditions, some options may be displayed in gray and not be available.

Voice memo (M87)

Voice memo function allows you to record up to 60 seconds of sound/voice, using your phone's microphone.

Recording/playing voice memo or setting speaker

  8 7

No.	Voice memo setting	
1	Record	Records a voice memo.  SK1 to start recording.  You can finish recording and save the data as a file by pressing SK2 even before the recording is completed.  To record the conversation during a call, see "Recording a call" on page 11.
2	Play	Plays a voice memo or recorded call.  Highlight a voice memo →  to start playing and SK2 to stop playing.
3	Speaker setting	Selects between speaker and earpiece to play the voice memo.  1 for the Speaker, or 2 for the Earpiece.

 See also: "Sounds (M22)" on page 31.

Currency (M88)

Currency function allows you to convert an amount of money in one currency to another.

Converting currency

  8 8

Currency setting	
From	Sets the source currency code.
To	Sets the destination currency code.
Exchange rate	Sets the exchange rate.  If you wish to change the exchange rate, CLR to delete the displayed exchange rate and key in the required number (for decimal point, SK1) → 
Amount	Sets the amount of money you wish to convert (for decimal point, SK1).

 If you have made a mistake in entering the exchange rate or amount, CLR to delete individual number or SK2 to cancel the entry and return to the previous screen, and then start again.

Resetting the currencies

  8 8 and SK1

External connection (M89)

External connection allows you to communicate with other devices (PC, PDA, headset, etc.)

 You cannot use the Infrared and Bluetooth functions at the same time.

Bluetooth (M891)

Bluetooth function allows you to use your phone as a modem and to talk by using a Bluetooth headset.

  8 9 1

 For details, see “Bluetooth (M891)” on page 77.

Infrared (M892)

  8 9 2

 For details, see “IR Data Exchange” on page 80.

Synchronization (M80)

Synchronization function allows you to synchronize data between your phone and your PC/network server. When your phone is connected to your PC (local server) via a USB cable, you can synchronize phonebook, scheduler or ToDo list data. When your phone is connected to a network server (remote server), you can synchronize only phonebook data.

 Data should comply with vCard 2.1/vCalendar 1.0 specification

 You cannot synchronize the phonebook data stored in the SIM card.

 You cannot synchronize data with the network server when the bearer type is set to CSD (see “Bearer type” on page 52).

 Connect your phone with your PC via a USB cable → Activate the software on PC side and prepare for synchronization (for details, refer to the manuals of the software)

 This procedure is not necessary when synchronizing phonebook data with the network server.

  8 0 → Select the data type (Phonebook, Scheduler or ToDo list) → Select the server type (local or remote) → SK1 or  1 to start synchronization

- ☑ To display the Synchronization Options menu, (MENU)

No.	Synchronization Options menu	
1	Sync now	Starts the synchronization.
2	Remote server	Sets the remote server information (Server URL, User name, Password, IP address, Proxy address). ☑ Changing this information also changes the synchronization server accessed from China Mobile in server.
3	Connection profile	Sets the connection profile for the remote server. See "Setting the Connection profiles" on page 52.

Dictionary (M8*)

Dictionary function provides you with English - Chinese and Chinese - English dictionaries.

Searching and displaying the definition of a word

- ☑ To use the Chinese - English dictionary, set the language to Simplified Chinese before activating the dictionary by (MENU) 1 1 6 1

- ☑ (MENU) 8 *

- ☑ To display the Dictionary Options menu, (MENU)

No.	Dictionary Options menu	
1	History view	Displays the last words you displayed. ☑ (MENU) to display the History view options menu.
		1 Delete Deletes the highlighted history.
		2 Delete all Deletes all the history.
		3 Search Displays the definition of the highlighted history.
2	Edit	Activates text input screen to enter the keyword to search for a word.

- ☑ To search for the word, highlight the text field at the top and ○, or (MENU) 2 → Enter keyword in English or Chinese → ○
- ☑ To scroll the list to find the word, ▲ ▼
- ☑ Highlight the word in the list → ○ to display the definition
- ☑ To display the Dictionary definition Options menu, (MENU)

No.	Dictionary definition Options menu	
1	Copy all	Copies the definition text.
2	Save to notepad	Saves the definition text as a file in Notepad.

No.	Dictionary definition Options menu (Continued)	
3	History view	Displays the last 20 words you displayed.

Camera (M8#)

Camera function enables you to take pictures and record videos, and to save them as files.

  8 #

 1 to take a picture, or 2 to record a video.

 Look into the camera view finder screen to place the target →  or the Side up key to take a picture or start recording.

 To display the Camera Options menu screen, 

 *About the operations for taking a picture/recording a video, or camera setting options, see "Camera (M8#)" on page 83.*

Bluetooth (M891)

Bluetooth function allows you to communicate with the external devices (PC, PDA, headset, hands-free kit, etc.).

This function provides the following service:

- **Dial-up service** - You can use your phone as a modem.
- **Headset/hands-free service** - You can make/receive a call using a Bluetooth headset or hands-free kit.

 *Recommendatory Bluetooth devices for your phone are ANYCOM CF300 (Modem Card), Nokia HDW-3 (Headset), Jabra BT250 (Headset), and Nokia CK-7W (Hands-free kit).*

 *When using Bluetooth devices, always refer to their operation manual.*

 *Depending on the connection status, a Bluetooth device may not function correctly. In such a case, retry operation from the device side, or switch your phone off and on.*

 *There may be Bluetooth devices that cannot be connected to your phone.*

Using Bluetooth connection

 *To use the Bluetooth function, you must perform the Bluetooth settings on your external device beforehand. For details, refer to the operation manual of the device.*

 *You cannot use the Bluetooth and Infrared functions at the same time.*

 *While using the Bluetooth device, the following icons will be displayed in the status bar area of your phone.*



Indicates that Bluetooth device is set to on.



Indicates that Bluetooth device is in operation.

Pairing a Bluetooth device and your phone

 **MENU** 8 9 1 → 1 to activate Bluetooth function → SK1 if no device is paired, 2 otherwise

 1 if the device can search and register your phone (e.g. when the device is a PC) or 2 if the device has to be searched and registered by your phone (e.g. when the device is a headset) → If the device is found, the device list screen will be displayed

 Highlight the device from the device list → 

 *When pairing, enter a passcode specified by the Bluetooth device to your phone and the device. If no passcode is specified by the device, enter the same arbitrary number to your phone and the device. A passcode is a number from 4 to 16 digits.*

Bluetooth setting

  8 9 1.

No.	Bluetooth setting	
1	Bluetooth On/ Bluetooth Off	Activates or deactivates Bluetooth function.  <i>If you switch the phone off while Bluetooth On is set, the next time you switch on, the phone will be in Bluetooth On status again.</i>
2	Pair new device	Registers the external Bluetooth devices.
		1 Wait for connect Standby your phone to wait for other devices to search for it.  <i>Other Bluetooth devices can only detect your phone while your phone is displaying Wait for connect screen.</i>
		2 Search device Searches for the nearby active Bluetooth devices.
3	Device list	Displays and edits the list of paired devices.
4	My phone	Displays the terminal information of your phone.   to display the Options menu Rename: Edits the terminal name of your phone.  <i>You cannot edit the information during Bluetooth communication.</i>
5	Active device	Displays the information on the device in connection.
6	Disconnect	Ends the Bluetooth connection in progress.

 Depending on the conditions, some options may be displayed in gray and not be available.

Device list Option menu

  8 9 1 → 3 

No.	Device list Option menu	
1	Rename	Edits the name of the highlighted device.
2	Protect/Unprotect	Protects or unprotects the highlighted device.
3	Delete device	Delete the highlighted device.
4	Delete all devices	Delete all the devices listed.

Device list icons

The following icons will be displayed in the device list screen.



Indicates the device is not registered.



Indicates the device is an audio (a headset or handsfree device).



Indicates the device is a PC.



Indicates the device is other than an audio and PC.



Indicates the device is protected.

Using your phone as Bluetooth modem

- For details of dial-up connection settings, consult your Internet service provider.
- Pair the Bluetooth device and your phone beforehand, referring to “Pairing a Bluetooth device and your phone”
- 8 9 1 → 1 to activate Bluetooth function → Perform dial-up connection by your PC
- To end the dial-up connection, disconnect from the PC application

Connecting Bluetooth headset/hands-free kit

- When connecting a wired headset and Bluetooth headset at the same time, the wired headset will not work.
- For some Bluetooth devices, the voice recall function may be activated when a paired headset/hands-free kit is turned on (see “Voice recall” on page 9).
- Pair the Bluetooth device and your phone beforehand, referring to “Pairing a Bluetooth device and your phone”
- 8 9 1 → 3 → Highlight the headset/hands-free kit in the list → SK1
- Press the button on the headset/hands-free kit
- To switch the headset/hands-free kit call to your handset call, 9
- You cannot deactivate Bluetooth during a call.
- To end the call, press or end from the headset/hands-free kit

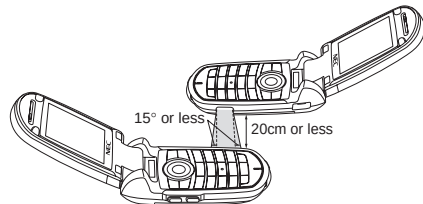
IR Data Exchange

Your phone is equipped with an InfraRed (IR) data port which enables you to send and receive picture/sound/MP3/video/ToDo list/scheduler/phonebook/note data with cellphones or other devices equipped with IR ports.

-  Do not aim or direct the IR data port towards your or other people's eyes when using IR data exchange.
-  Do not aim or direct the IR data port towards another IR device as this may cause the device to malfunction.
-  Depending on the other party's cellphone or device, the data may not be received correctly.
-  You cannot use the Infrared and Bluetooth functions at the same time.
-  While sending or receiving data through IR or using your phone as an IR modem, your phone is automatically placed out of service, so phone call, message and Monternet access are disabled.

Positioning of the phones

-  Open both sending and receiving phones vertically and place them as their IR ports face each other with less than 20cm of interval.
-  Do not place anything between IR ports.
-  The angle made of two IR ports must be within 30°.
-  Do not move the phones until the data exchange is complete.
-  The phones may not communicate successfully if they are placed under direct sunlight or fluorescent light, or close to other infrared devices.



IR send

You can send picture/sound/MP3/video/ToDo list/scheduler/phonebook/note data as a file through the IR port.

-  This function is not available during a call.
-  Before starting to send data, the other party must be ready to receive data.

Phonebook entry (M713...)

-  You can only send Name, Home, Mobile, Work, Fax, 2 Email addresses and 2 pieces of descriptive information.
-  Your phone sends data according to the vCard 2.1 specification.
-  To display the phonebook (Phone),  (for required number of times) or  7 1 3 → Highlight a phonebook entry.
-   0 or  3 → The phonebook entry will be sent through the IR port.

Video/Sound/Picture/MP3 file (M2...)

- ☛ **MENU** 2 1 for Videos, **MENU** 2 2 for Sounds, **MENU** 2 3 for Pictures or **MENU** 2 4 for MP3 → Highlight a folder → **○** → Highlight a file.
- ☛ **MENU** 2 3 for Videos/Pictures, **MENU** 2 4 for Sounds or **MENU** 2 2 for MP3 → The file will be sent through the IR port (see "My favorites (M2)" on page 31 for details).

Schedule entry (M84...)

- ☛ **MENU** 8 4 → Highlight a date → **○** → Highlight a schedule entry → **○** → **MENU** 9 → The schedule entry will be sent through the IR port.

ToDo entry (M85...)

- ☛ **MENU** 8 5 → Highlight Public, Private or All → **○** → Highlight a ToDo entry → **MENU** 7 → The ToDo entry will be sent through the IR port.

Note (M862...)

- ☛ **MENU** 8 6 2 → Highlight a note → **MENU** 2 and 2 → The note entry will be sent through the IR port.

IR receive (M8921)

You can standby your phone to receive data (picture/sound/MP3/video/ToDo list/scheduler/phonebook/note) from other devices or a phone of the same model.

Receiving data through IR (M8921)

- ☛ **MENU** 8 9 2 1 → Start sending data from the other end.
- ☞ *Once the transmission completes, your phone automatically judges the type of received data and stores the data accordingly.*
- ☞ *This function is not available during a call.*
- ☞ *If your phone does not have enough space to store the received data, a message will be displayed indicating lack of space. In such a case, delete unnecessary data and try the data exchange again.*
- ☞ *Received picture/video/sound files are stored in the Download folder of My favorites (see "My favorites (M2)" on page 31).*

IR modem (M8922)

You can use your phone as a modem for a PC via the IR port to establish a dial-up connection to an Internet service provider.

Activating the IR port for modem use (M8922)

- ☛ **MENU** 8 9 2 2 → The phone will be in standby status for IR transmission from the external device.
- ☞ *If the IR transmission is not established within a short while, the standby status will end.*
- ☞ *While on active call or connecting to the external device such as USB, IR modem is not available.*



While using your phone as an IR modem, you cannot use network related services, such as making/receiving calls and sending/receiving messages.



Your phone consumes a lot of battery power when used as a modem. After using your phone as a modem, be sure to deactivate the modem function from your PC or press  (for the CSD connection only). When the modem function is deactivated, the idle screen will be displayed without the Infrared icon and GPRS icon.



Check with your service provider to use your phone as a modem to connect to the Internet.

Camera (M8#)

Camera function enables you to take pictures or record videos and save them as Joint Photographic Expert Group (JPEG) files and 3rd Generation Partnership Project (3GPP) files respectively. You can enjoy the picture and video files in many ways: send them attached to an MMS or Email, set a picture file as the wallpaper for your phone, etc.

Notes on using the camera

Handling the Camera

-  *The camera of your phone is manufactured using high-precision technology. However, there may be dots or lines on the screen that appear darker or brighter than the others. Note also that when you are shooting or recording in dimly-lit places, the amount of noise (such as red and blue dots or horizontal lines) may increase noticeably.*
-  *Be careful not to apply force to the lens when closing your phone. This could damage the lens.*
-  *Fingerprints or grease on the lens can result in focusing problems or dark images. Wipe the lens clean with a soft cloth before use.*
-  *The image quality may be degraded after your phone has been left for a long period in a warm place.*
-  *Exposing the camera to direct sunlight for a long period could discolour the camera's internal colour filter and cause discoloured images.*
-  *Camera mode is automatically cancelled if none of the phone's keys are pressed for 3 minutes or longer.*

Precautions when taking pictures/recording videos

-  *You cannot switch the camera's shutter sound off. The shutter makes a clicking sound when you take a picture or start/end a video recording, even when the phone is in Meeting mode.*
-  *Avoid camera shake. Moving the phone when you take a picture will result in a blurred image. Hold the camera firmly to keep it still when you take a picture, or use the auto timer to take the shot.*
-  *As there is a slight delay from the time you press  or Side up until the picture is actually taken, do not move the camera until you hear the shutter sound.*
-  *If taking a picture with not enough light, try to hold the phone still as much as possible, and for a longer period of time after the shutter sound: the shutter speed may be slower in a darker environment.*
-  *Note that if you attempt to shoot directly into a strong light source, such as the sun, another bright light or the high reflecting target with strong light, the image may contain washed-out white highlights or be disrupted.*
-  *While recording, be careful not to cover the mouthpiece of your phone as it is used as the microphone to record sound along with the video.*

Copyright information

- 📖 Images and videos shot or recorded on your phone cannot be used in ways that infringe copyright laws without the consent of the copyright 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.
- 👤 Be considerate of other people's privacy when you take a picture or record a video using the camera of your phone and send it to others.

Taking a picture (M8#1)

- 👉 To activate the camera function, press and hold Side up or press  8 # 1
- 📖 When you highlight Camera on the Camera screen, pressing SK1 creates a desktop icon of the camera function on the standby screen.
- 👉 Look into the camera view finder screen and adjust the camera position to place the target on the screen.
- 📖 You can switch the camera view finder screen between the main-LCD and the 2nd-LCD by pressing *.
- 📖 You can take a picture while the phone is closed.
- 👉 Hold the phone still → To use the shutter,  or Side up → Check the picture → If successfully taken,  → Saved as a JPEG file in a folder in Pictures
- 📖 After taking a picture, press SK1 to send the taken picture attached to a message, and press SK2 to discard the picture.
- 📖 The default file name for the picture saved in the folder is the date, month, year and sequence number. When you take pictures in burst mode, the saved files will be named by the default file names plus a consecutive two-digit number at the end.
- 📖 If a call comes in while you are checking or saving a photographed image, image storage is cancelled. When this occurs, the next time you select camera function a message appears to say that you have an image that was not stored, allowing you to check and store the image.
- 📖 Before taking a picture, you can switch to the video camera function by pressing SK2. This use of SK2, however, is invalid if the self-timer function is activated.

Operations when taking a picture

- 👉 To turn the light on or off, SK1 or Side down
- 📖 Take care not to hold the light too close to your or other people's eyes when the light is lit.
- 👉 To zoom in and out, ▲ or ▼
- 📖 You can also select 1x, 2x, 3x, 4x or 5x magnification from the Zoom setting on the Camera Options menu.
- 👉 To turn on/off the camera view finder on the full screen, press #.
- 📖 Depending on the photo size, there may be parts not seen on the full screen view finder display in the saved picture.
- 👉 To control the brightness level of the picture, ◀ or ▶

Camera Options menu (before taking a picture)

No.	Camera Options menu (before taking a picture)	
1	Single mode/Burst mode	Switches the shooting mode to Single/Burst mode (serial shooting).
2	Shoot environment	Changes the camera settings to suit the environment. Select from Standard, Person, Room or Darkness.
3	Effect	Applies special effect to the picture. Select from Off, Sepia, Monochrome, or Negative film.
4	Photo size	Sets the picture size to Sub-QCIF (128x96), QCIF (176x144), Main-LCD (176x220), CIF (352x288), VGA (640x480) or SXGA (1280x1024).  You cannot use the Zoom function for VGA and SXGA, and you can select 1x to 2x magnification for Main-LCD and CIF, 1x to 4x magnification for QCIF and 1x to 5x magnification for Sub-QCIF.  You can use the Frame and Burst mode functions for Sub-QCIF, QCIF and Main-LCD.  You cannot use the Full screen function for Sub-QCIF and QCIF.  If you select Main-LCD, CIF, VGA or SXGA, the picture on the camera view finder screen will be displayed as a smaller picture than the actual size. Also on the camera view finder screen, the picture size before shooting differs from the size after shooting.
5	Image quality	Sets the image quality to Super fine, Fine, Normal, Economy or Super economy.
6	Frame	Selects whether to use a frame when taking pictures, and sets the desired frame with which a picture will be taken.
7	Self timer/Self timer cancel	Activates or deactivates the self-timer function.
8	Sound settings	Selects the Shutter sound and Self timer sound.
9	Pictures	Opens Pictures in My favorites.
0	Other settings	Add desktop icon: Creates a desktop icon of the camera function on the standby screen. Automatic save: Selects whether to save taken pictures automatically or not. Save in: Selects the folder (preset or created) where the taken picture will be saved. Light: Turns the light on or off. Brightness: Changes the brightness level of the picture between -2 and +2. Zoom: Changes the zoom magnification from 1x, 2x, 3x, 4x or 5x. Thumbnail view: Selects whether to display the pictures taken in the Burst mode as thumbnails or slides. Video recorder: Activates the video function. Flicker control: Selects 50Hz, 60Hz or Auto to prevent flickers when taking a picture under a fluorescent light.
*	Switch finder	Selects whether to display the camera view finder on the main-LCD or the 2nd-LCD.  On the 2nd-LCD view finder, the object appears as a mirrored image.

No.	Camera Options menu (before taking a picture) (Continued)	
#	Full screen	Turns the Full screen on or off.

 Depending on the conditions, some options may be displayed in gray and not be available.

Camera Options menu (after taking a picture)

No.	Camera Options menu (after taking a picture)	
1	Save current	Saves the currently displayed picture in the folder selected as Save in setting.
2	Save all	Saves all pictures taken in Burst mode.
3	Create message	Creates a new message with the file attached.
4	Set as wallpaper	Sets the picture to be the main-LCD and/or 2nd-LCD wallpaper.
5	Display as normal image/ Display as mirror image	Selects whether to display the taken picture as a normal or mirror image on the main-LCD preview screen when you select the 2nd-LCD as a camera view finder in Single mode.
6	Save as mirror image	Saves the picture as a mirror image when you select the 2nd-LCD as a camera view finder in Single mode.
7	Thumbnail view	Selects whether to display the pictures taken in the Burst mode as thumbnails or slides.
8	Automatic save	Selects whether to save taken pictures automatically or not.
9	Save in	Selects the folder (preset or created) where the taken picture will be saved.
0	Pictures	Opens Pictures in My favorites.

 Depending on the conditions, some options may be displayed in gray and not be available.

Recording a video (M8#2)

Recording a video



To record a video, keep your phone open at all time. Unlike taking a picture, you cannot record a video while the phone is closed.

 Press and hold Side up then SK2, or press  8 # 2 → Look into the view finder screen and adjust the camera position.

 When you highlight Video on the Camera screen, pressing SK1 creates a desktop icon of the video function on the standby screen.

 You can switch the camera view finder screen between the main-LCD and the 2nd-LCD by pressing *.

 To start recording,  or Side up → The progress bar will show the ratio of how much you have recorded already.

 While recording, be careful not to cover the mouthpiece of your phone as it is used as the microphone to record sound along with the video.

-  While recording, the key tones are deactivated.
-  Move the camera to capture the scenes you want → To stop recording, press  or the Side up.
-  After the set video file size is reached, the recording automatically stops.
-  After recording, press SK1 to replay the recorded video, and press SK2 to send the video file attached to a message.
-  While replaying, you can fast forward by pressing  or rewind by pressing . Pressing SK1 or  will stop the fast forwarding/rewinding. Then, pressing SK1 will restart and continue the replay.
-  You can discard the recorded video by pressing  or CLR.
-  To save the recorded video, . The recorded video is saved as a 3GPP file in the Videos - My movies folder in My favorites (see page 31).
-  Pressing # before/while playing a video file will enlarge the replay screen size, and pressing # will return the screen size to normal for Sub-QCIF only.
-  The default file name for the recorded video saved in the folder is the date, month, year and sequence number.
-  For the operations while replaying the video, see "Videos (M21)" on page 31.
-  For the operations while recording a video, see "Operations when taking a picture" on page 84.
-  If a call comes in while you are checking or saving a video, video storage is cancelled. If this occurs, the next time you select camera function a message appears to say that you have a video that was not stored, allowing you to check and store the video.
-  Before recording a video, you can switch to the camera function by pressing SK2. This use of SK2, however, is invalid if the self-timer function is activated.

Operations when recording a video

-  To turn the light on or off, SK1 or Side down
-  Take care not to hold the light too close to your or other people's eyes when the light is lit.
-  To zoom in and out,  or 
-  To control the brightness level of the picture,  or 

Camera Options menu (before recording a video)

No.	Camera Options menu (before recording a video)	
1	Shoot environment	Changes the camera settings to suit the conditions. Select from Standard, Person, Room or Darkness.
2	Effect	Applies special effect to the video. Select from Off, Sepia, Monochrome or Negative film.
3	Screen size	Sets the video screen size to Sub-QCIF (128x96) or QCIF (176x144).
4	Video file size	Sets the video file size to Mail size or Normal size.
5	Quality	Sets the video quality to High or Standard.
6	Self timer/Self timer cancel	Activates or deactivates the self-timer function.
7	Self timer sound	Selects the self timer sound from Sound1, Sound2 or Sound3.

No.	Camera Options menu (before recording a video)	
8	Videos	Opens Videos in My favorites.
9	Other settings	Add desktop icon: Creates a desktop icon of the video function on the standby screen. Save in: Selects the folder (preset or created) where the recorded video will be saved. Light: Turns the light on or off. Brightness: Changes the brightness level of the video between -2 and +2. Zoom: Changes the zoom magnification from 1x to 5x for Sub-QCIF and from 1x to 4x for QCIF. Camera: Activates the camera function. Flicker control: Selects 50Hz, 60Hz or Auto to prevent flickers when taking a picture under a fluorescent light.
0	Switch finder	Selects whether to display the viewfinder on the Main-LCD or the 2nd-LCD.

 Depending on the conditions, some options may be displayed in gray and not be available.

Camera Options menu (after recording a video)

No.	Camera Options menu (after recording a video)	
1	Save	Saves the currently displayed video.
2	Create message	Creates a new message with the file attached.
3	Set as ring tone	Sets the video as the ringtone.
4	Set as wallpaper	Sets the video to be the main-LCD wallpaper.
5	Full screen	Selects whether to enlarge the replay screen size.  You cannot use the Full screen function for QCIF.
6	View detail	Displays detailed information on the selected video.
7	Save in	Selects the folder (preset or created) where the recorded video will be saved.
8	Videos	Opens Videos in My favorites.

 Depending on the conditions, some options may be displayed in gray and not be available.

Index

Numerics

2nd-LCD	26	Call history	11
3GPP	83	Call lists	12
4 way navigation key	v	Call transfer	10
A		Call waiting and holding	14
AC adapter	3	Camera	83
Accepting an incoming call	7	Recording a video	86
Accessory	66	Taking a picture	84
ADN	57	Car mode	24
Alarm volume	25	CB	50
Alert message	40, 55	China Mobile in	56
ALS	23	CLI	6, 62
Animation	32	Clock	24
Any key answer	23	Clock alarm	67
AoC	12	Clock selection	26
Auto answer	26	Clock/Event display	26
Auto redial	14	Colour style	26
B		Connection profile	29
Bar calls	29	Contrast	26
Basic calls & phone use	6	Correcting mistakes	6
Battery charging	3	CSD	51
Battery level icons	vii, 4	Currency	73
Battery pack	1	Customer service	56
Bluetooth	77	D	
Bookmark	54	Date	24
C		Date format	24
Calculator	67	Desktop icons	21
Call diversion	13	Dialled calls list	12
		Dictionary	75
		Download	51

E

Earphone setting	25
Earphone type	24
Email account	41
Email messages	39
Emergency calls	8
Ending a call	6
External connection	74

F

Fast dialling	8
FDN	29, 58
Flicker control	85, 88
Fold answer	23
Frame	33
Frequency band	16
Function key LED	27

G

General care	i
GPRS	51
Greetings	26
Groups	60

H

Hands-free kit	77
Headset	24, 77
Highlight mode	44, 50
Holding a call	9
Homepage	51

I

Icons	vii, 40, 48, 77, 79
Inbox	39
Incoming call No.	26
International dialling codes	15
IR Data Exchange	80
IR modem	81
IR receive	81
IR send	80

J

Java™	37
JPEG	83

K

Key allocations	20
Key tone	25
Keypad shortcuts	vi

L

Language	24
Last call duration	12
Last number redial	8
LCD	iv
LED	24
Logging on to WAP site	54
Low battery alarm	4

M

Main menu	ix
Main menu style	26

Main-LCD	26	Own phone number display	8	Security code	28	Timezone	24
Making basic calls	6	P		Service tone	25	ToDo list	70
Meeting mode	24	Parts and functions	v	Setting your connection profile and homepage	51	Total calls duration	12
Menu functions	ix	Phone lock	29	Settings	23	U	
Menu shortcuts selection	iii	Phone modes	24	Shortcuts selection	ix	Unsuccessful calls	7
Message	39	Phonebook	57	Side key lock	23	User's manual conventions	iii
Missed calls list	12	PIM	28	SIM card	1	V	
MMS messages	39	PIN activate	28	SIM card insertion	1	Vibrator	25
MMS tone	25	PIN code	5, 28	SIM card removal	2	Video	83
MMS tone volume	25	PIN2 code	28	SMS messages	39	Recording a video	86
Monternet	51	Pocket mode	24	SMS tone	25	View mode	45
MP3 player	66	Power saving	27	SMS tone volume	25	Voice mail	64
Multi-party calls	10	Preparing the phone	1	Snapshot	54	Voice memo	73
Mute	10	PUK	28	Stamp	32	Voice recall	9
My favorites	31	R		Standby and talk times	4	Voice volume	23
Java	34	Reading a message	40	Standby screen	iv	W	
MP3	34	Received calls list	12	Starting a call	6	Wallpaper	26
Pictures	32	Receiving an incoming call	7	Start-up	4	Web settings	51
Sounds	31	Recording a call	11	STD	6	Web site	55
Videos	31	Redial blacklist	12	Switching the phone off	5	Z	
N		Rejecting an incoming call	7	Switching the phone on	4	Zoom	85, 88
Network selection	15	Reset settings	30	Synchronization	74		
Normal mode	24	Ring silencer	23	T			
Normal text (ABC) input	18	Ringer	25	T9 Chinese Stroke input	19		
Notepad	71	Ringer volume	25	T9 English text input	17		
Number type	63	Roaming	15	T9 Pinyin input	19		
Numeric input	18	S		T9 Zhuyin input	19		
O		Scheduler	68	Text entry	17		
One-touch dial	8	Scratchpad number	11	Mode change	17		
Option mode	44	SDN	58	Time	24		
Origin number	63	Security	28	Time format	24		

N411i SAR/DoC

Radio Frequency (RF) Signals(900/1800MHz)

THIS NEC PHONE (MODEL N411i) COMPLIES WITH THE EU REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your mobile phone is a radio transceiver, designed and manufactured not to exceed the SAR* limits** for exposure to radio-frequency (RF) energy, which SAR* value, when tested for compliance against the standard was (TBD)W/kg. While there may be differences between the SAR* levels of various phones and at various positions, they all meet*** the EU requirements for RF exposure.

*The exposure standard for mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR.

**The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of tissue, recommended by The Council of the European Union. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

*** Tests for SAR have been conducted using standard operating positions with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a base station antenna, the lower the power output.

Radio Frequency (RF) Signals(1900MHz)

THIS NEC PHONE (MODEL N411i) COMPLIES WITH THE USA REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone contains a radio transmitter and receiver. Your NEC phone is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U. S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government- adopted requirement for safe exposure. The tests are performed on position and locations (for example, at the ear and worn on the body) as required by FCC for each model. The highest SAR value for this model phone as reported to the FCC when tested for use at the ear

is (TBD) W/ kg, and when worn on the body, is (TBD) W/ kg. (Body- worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement. * In the United States, the SAR limit for wireless mobile phones used by the public is 1.6 watts/ kg (W/ kg) averaged over one gram of tissue. SAR values may vary depending upon national reporting requirements and the network band.

Body- worn Operation

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section at [http:// www. fcc. gov/ oet/ feid](http://www.fcc.gov/oet/feid) after search on FCC ID A98-KMP6J1AR1.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines when used with a NEC accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body.