BenQ·SIEMENS

S81

BenQ·SIEMENS S81
Mobile Phone
User Manual

Safety Information

For your safety, please read the guidelines below carefully before you use your phone:

Exposure to Radio Frequency Signals

Max. SAR measurement
Head 900 MHz (EGSM): 0.952 W/Kg
Head 1800 MHz (DCS): 0.512 W/Kg
Head 2.1GHz (WCDMA): 0.74 W/Kg
Head 1900 MHz (PCS): 0.978 W/Kg; Body 1900 MHz (PCS): 0.381 W/Kg

Your wireless handheld portable telephone is a low power transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

European and international agencies have set standards and recommendations for the protection of public exposure to RF electromagnetic energy.

- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996
- Verband Deutscher Elektroingenieure (VDE) DIN- 0848
- Directives of the European Community, Directorate General V in Matters of Radio Frequency Electromagnetic Energy
- National Radiological Protection Board of the United Kingdom, GS 11, 1988
- American National Standards Institute (ANSI) IEEE. C95.1- 1992
- National Council on Radiation Protection and Measurements (NCRP). Report 86
- Department of Health and Welfare Canada. Safety Code 6

These standards are based on extensive scientific review. For example, over 120 scientists, engineers and physicians from universities, government health agencies and industry reviewed the available body of research to develop the updated ANSI Standard.

The design of your phone complies with these standards when used normally.

Specific Operating Restrictions

No metallic component allowed in body-worn accessories.

Phone Operation

- Normal Position: Hold the phone as you would with any other telephone.
- To avoid potential RF interference, please do not wear the phone around your neck or in front your chest for long hours.

Batteries

- For safety concerns, when the temperature of the phone goes over 45° C (113F) or below 0° C (32F), charging will halt.
- Do not expose batteries to temperatures below -10° C (14F) or above 45° C (113F). Always take your phone with you when you leave your vehicle.
- Use only genuine BenQ battery to ensure the phone's normal operation.

All batteries can cause property damage, injury or burns if a conductive material such as jewelry, keys or beaded chains touches exposed terminals. The material may complete electrical circuit and become quite hot. To protect against such unwanted current drain, exercise care in handling any charged battery, particularly when placing it inside your pocket, purse or other container with metal objects. When battery is detached from the phone, your batteries are packed with a protective battery cover; please use this cover for storing your batteries when not in use.

Driving

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

• Give full attention to driving--driving safety is your first responsibility.

• Use hands-free operation, if available.

• Pull off the road and park before making or answering a call if driving conditions so require.

Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

• Should **ALWAYS** keep the phone more than six inches from their pacemaker when the phone is turned **ON**.

• Should not carry the phone in a breast pocket.

• Should use the ear opposite the pacemaker to minimize the potential for interference.

If you have any reason to suspect that the interference is taking place, turn your phone **OFF** immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone **OFF** in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your phone **OFF** in any facility where posted notice so requires.

Aircraft

FCC regulations prohibit using your phone while in the air. Switch **OFF** your phone before boarding an aircraft.

Blasting Areas

To avoid interfering with blasting operations, turn your phone **OFF** when in a "blasting area" or in area posted "TURN OFF TWO-WAY RADIO." Obey all signs and instructions.

Potentially Explosive Atmospheres

Turn your phone **OFF** and do not remove the battery when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks, from your battery, in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always clearly marked. They include fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

For Vehicles Equipped with an Air Bag

An air bag inflates with great force. **DO NOT** place objects, including both 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body. Use of other enhancements may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the phone at the ear, position the handset a minimum of 1.5 cm from your body when the phone is switched on.

European Union Directives Conformance Statement

Hereby, BenQ Mobile, declares that this S81 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The relevant declaration of conformity (DoC) has been signed. Please call the company hotline if you require a copy of the original or visit:

www.BenQMobile.com/conformity

CE0168

3GPP TS 51.010-1
EN 301 511
EN 50360/ EN 50361
ETSI EN 301 489-1/-7
EN 60950-1
ETSI EN 300 328 & ETSI EN 301 489-17 (Bluetooth)
EN 301 908-1 & EN 301 908-2
ETSI EN 301 489-24(WCDMA)

Permanent hearing loss may occur if you use ear- or headphones at high volume.You can adapt over time to a higher volume, which may sound normal but can be damaging to your hearing. Set your volume to a safe level. If you experience ringing in your ears, reduce the volume or discontinue use of your system.

All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

This crossed-out wheelie bin symbol on the product means the product is covered by the European Directive 2002/96/EC.

The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for re-use and recycling of used electrical and electronic equipment.

For more detailed information about disposal of your old appliance, please contact your local council, waste disposal service or the shop where you purchased the product.

Table of Contents

1 Preparing your phone for use

Inserting a SIM card

Slide the SIM card into the slot in the direction of the arrow, with the metal contacts facing down and the cut corner at the bottom right as illustrated.

☞ In this user manual, "SIM card" refers to either a SIM or a USIM card, unless otherwise specified. A USIM card is needed for 3G networks. Please refer to for information about selecting the correct network mode to use.
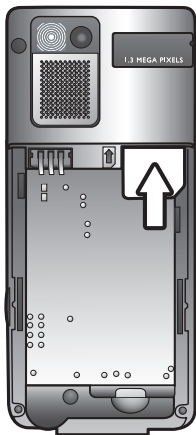
⚠ A SIM card can be easily damaged if its metal contacts become scratched. So take special care when holding or inserting it.

Installing a battery

1. Place the battery onto the back of the phone, with the battery's contacts facing downwards and the tab on its top edge in alignment with the holes in the battery compartment.

2. Push the battery against the top of the compartment and press it down to click it into the compartment.
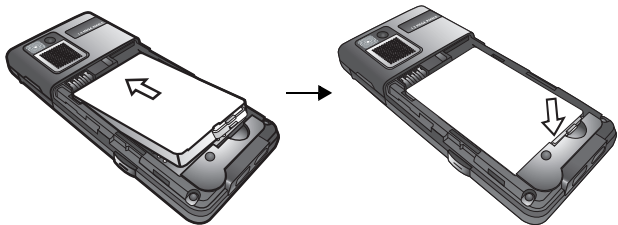
> ⚠️ Do not remove the battery when the phone is on. Doing so could cause you to lose personal settings or data stored either on your SIM card or in the phone's memory.

Installing the back cover

Place the back cover onto the back of your phone and slide it forwards until the latch catches the cover.

Charging the phone

1. Plug the charger into a power outlet.

2. Insert the charger connector fully into the charger socket at the bottom of your phone. Ensure that the connector is plugged in the right way with the side showing the arrow icon facing upwards.
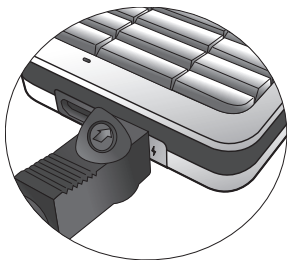
⚠ Do not remove the battery while the phone is charging.

3. Once the phone is fully charged, remove the charger from both the power outlet and the phone.

☞ Please note:

- It takes approximately 3 hours to fully charge a battery.

- When the battery is weak, the phone will play an alert sound.

- When the battery is discharged, the charging may not start immediately when you plug in the connector. Wait 10 to 15 minutes for the phone to begin charging.

Turning the phone on

1. Long-press [⚏] to turn the phone on.

☞ In this user manual, "long-press" means to press and hold down a key for about two seconds before releasing it. "Press" means to press a key and release it immediately.

2. Enter your PIN code and press the joystick to confirm.

☞ The PIN (Personal Identification Number) is the password provided by your network operator. You need this password in order to use the SIM card.

⚠ If you enter the PIN incorrectly three times in a row, the SIM card will be locked. You must now enter the PUK (Personal Unblocking Key) for that SIM card in order to unlock it. Please contact your network operator to obtain a PUK.

☞ To activate/disable PIN password authentication, go to **Settings** > **Security** > **PIN Code** > **PIN1 Code** > **Settings > On/Off**. See page 82.

3. When the PIN code entered has been accepted, the phone will automatically search for the designated network. This search process may take a few seconds.

4. The standby screen will be displayed, as well as network signal strength and the name of the network operator. You can now use the phone.

☞ If the phone is not able to detect the designated network, or links to a network that you are not authorised to use, the signal strength meter will show no bars. You will only be able to make emergency calls.
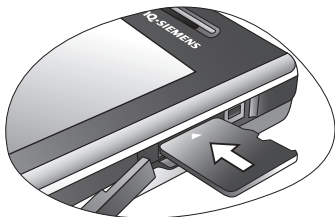
The microSD card

Your phone features a microSD slot designed specifically for use with the microSD card, a removable flash memory card intended to add greater storage capacity to your phone.

The microSD card enables you to store multimedia data, including images, photos, MP3 audio files, ringtones and Java games.

Installing the microSD card

1. Lift the cover.
2. Insert the microSD card into the slot. Ensure that the card's metal contacts face downwards.
3. Close the cover.

☞ Please note:

- 🔲 will appear in the status bar when the microSD card is loaded.
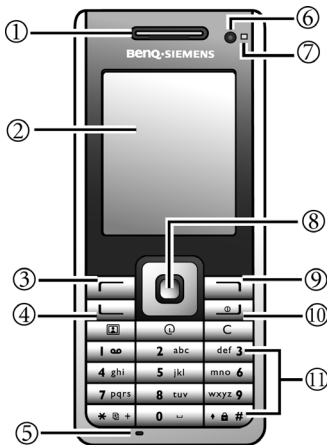- Your phone does not support a microSD card which is in **FAT32** or **NTFS** format

Removing the microSD card

1. Lift the cover.
2. Press the microSD card to release it.
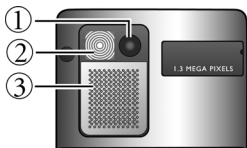
② Getting to know your phone

Your phone at a glance

Front view

1. Earpiece
2. Display
3. Left soft key
4. Dial/Answer key
5. Microphone
6. Internal camera lens
7. Status/Paging LED
8. Joystick
9. Right soft key
10. Power on/off key
11. Alphanumeric keys

Rear view

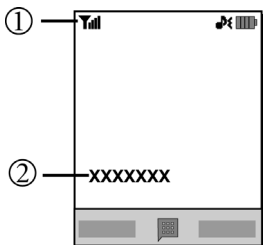1. External camera lens
2. Flash
3. Loudspeaker

Side views

1. Hands-free headset/ Data cable jack
2. Charger socket
3. Camera shutter
4. microSD slot
5. Volume keys

Standby screen

1. Status bar
2. Name of network operator

- To set the wallpaper of the display, go to **Settings** > **Display** > **Wallpaper**. Alternatively, you can go to **Media Centre** > **Images**. See page 58 and page 76.
- To set the current time and date, as well as the format to be shown, go to **Settings** > **Date & Time**. See page 73.
- To enter text (such as the user name) to be displayed on the standby screen, go to **Settings** > **Display** > **Personal Banner**.

Icons in the status bar

Icon	Function	Description
	Signal strength	Signal strength of the network. The more bars indicated, the stronger the signal.
	Battery status	Current level of battery power. The more bars indicated, the more power remains.
2G	GPRS in use	GPRS is activated.
3G	3G in use	3G is activated.
	Message	You have new or unread messages.
	WAP message	You have new or unread WAP messages.
	E-mail	You have new or unread e-mail messages.
	Voicemail	You have new voicemail messages (only appears if the function is supported by your network operator).
	Alarm	Alarm is turned on.
	Keypad lock	Keypad is locked.
	Normal	**Normal** profile is activated.
	Meeting	**Meeting** profile is activated.
	Silent	**Silent** profile is activated.
	Outdoors	**Outdoors** profile is activated.

Icon	Function	Description
	Personal	**Personal** profile is activated.
	Flight Mode	**Flight Mode** is activated
	Headset	A headset is connected to the phone.
	Divert	Call divert is activated.
	Roaming	Roaming is activated (appears when you are not under your regular network coverage).
	Bluetooth®	Bluetooth® is turned on.
	microSD Card	A microSD card is loaded.

Using the keys when in standby mode

Key	Commands and functions
	Power on/off key • Long-press to turn the phone on or off. • Press to end a call, reject an incoming call, or to cancel a dialling procedure.
	Send/Answer key • Press to send or answer a call. • Press to access the call record list.
	Left soft key • Press to perform the function indicated on the display.

Key	Commands and functions
⊐	**Right soft key** • Press to perform the function indicated on the display. • Long-press to turn the silent profile on or off.
⊡	**Joystick** • Press the joystick to enter the main menu. • Push up/down/left/right to enter the assigned functions for each. To assign functions to the four-way navigation joystick, see page 77, "Key assignment".
(✱ ▯ +)	**Asterisk key** • Press to enter an asterisk " * ". • To make an international call, long-press until the display shows "+", then enter the recipient's country code, area code and phone number.
1 ⚏	**Voicemail key** • Long-press to dial your voicemail number.
(＋ 🔒 #)	**# key** • Press to enter "#". • For extensions: After entering a phone number, long-press to enter a "P" and then enter the extension number. • Long-press to activate the keypad lock.

Key	Commands and functions
$\boxed{0 \ \sqcup} \sim \boxed{\text{wxyz}\ 9}$	**Alphanumeric keys** • Press to enter digits. • Shortcut key: Long-press a key to access the function immediately, or dial the number that it represents. See page 38, "Shortcuts".
⊟	**Volume key** **(On the left side of the phone)** • Long-press the upper or lower key to adjust the volume.
▢	**Video call hot key** • Press to answer/make a video call.
◎	**WAP hot key** • Press to access WAP and more services provided by your network operator.
C	**Clear key** • Press to delete inputs.
▯	**Camera shutter button** **(On the right side of the phone)** • Long-press to activate the camera mode. • In camera mode, it functions as a shutter button.

Menu Navigation

1. In standby mode, press 回 to bring up the main menu.

2. Use the joystick to move up, down, right or left through the menu; for example, scroll to **Settings**, and press 回 to enter its menu.

3. Use the joystick to scroll to a submenu, for example **Profiles**, and press 回 to enter the submenu item.

☞ You can also access a menu item by pressing the corresponding menu number. In the above example, press def 3 to access **Profiles**.

LED indicator description

- Blinking purple: the phone is charging.
- Purple: charging is complete.
- Orange: you have an unread SMS/MMS or a missed call.
- Blue: network service available.
- No light: no network service available/limited service/**Flight mode** activated.

③ Using your phone

Call functions

Making a phone call

In standby mode, enter the phone number. Press ▢ (**Option**) and select **Call** to dial your call.

Ending a phone call

To end a call, press ▢ . The display will show the total call time, and then return to standby mode.

Answering a phone call

To answer a call, press ▢ .

☞ If you wish to press any key to answer a call, go to **Settings** > **Call Settings** > **Answer Mode** > **Any Key**.

Rejecting an incoming call

To reject an incoming call, press ▢ .

Adjusting the volume

During a call, if you want to adjust the speech volume, you can press the volume key on the left side of the phone.

☞ Please note:

- When there is an incoming call, you can mute the ringtone by long-pressing the lower portion of the volume key.
- Adjusting speech volume only works during a call.

Making an international call

1. Enter the outgoing international call code, or long-press $\boxed{*\text{\@}+}$ until "+" appears on the display.
2. Enter the recipient's country code, area code and phone number. Dial the call by pressing $\boxed{}$.

Making an emergency call

To call emergency services, enter 112 (the international emergency number) and then press $\boxed{}$ to dial the call. You can make an emergency call even if your phone is locked or cannot access your network, or if there is no SIM card inserted, as long as you are within range of a network of the type supported by your phone.

Dialling an extension number

After you enter a telephone number, long-press $\boxed{*\text{\@}+}$ until "P" appears on the display. At this point, you can enter the desired extension number, and then press $\boxed{}$ to dial it.

Speed dialling

☞ You must assign a number key as the shortcut for a particular phone number in order to use speed dialling for that phone number. For information on how to set up a shortcut, see page 38, "Shortcuts".

After you have assigned a number key to serve as the shortcut key for a particular phone number, long-press this key when the phone is in the standby mode to dial the corresponding phone number.

Listening to voicemails

Long-press $\boxed{1\infty}$ to dial the voicemail phone number and listen to your voicemails.

☞ Please note:

- If the network provider supports it, the voicemail icon will appear on the display when you have new voicemails.

- If the voicemail number is not stored in the memory, you will not be able to

  access your voicemail by long-pressing $\boxed{1\infty}$. In this case, you will need to set the number manually by going to **Messages** > **Voicemail** > **Set Number**.

Operations during a call

☞ The following options marked with an asterisk (*) are dependent on network support and may require a subscription.

Loudspeaker

Press $\boxed{}$ (**Loudsp.**) to turn on the loudspeaker.
Press $\boxed{}$ (**Handset**) to turn off the loudspeaker.

Putting a call on hold*

- When only one call is active:

  a. Press $\boxed{}$ (**Hold**) to hold this call.

  b. Press $\boxed{\underline{}}$ to end this call.

- When only one call is on hold:

  a. Press $\boxed{}$ (**Unhold**) to resume the call.

  b. Press $\boxed{\underline{}}$ to end this call.

- When there is an active call and a call on hold.

    a. Press ☐ (**Swap**) to resume the call that is on hold, and put the active call on hold.

    b. Press ☐ to show a list of calls that you can end.

Making a second call*

Enter a phone number, or select one from the phone book or call record, and then press ☐ to dial it. The currently active call will be placed on hold automatically.

Call Waiting*

If there is an incoming call while you are on the phone, the phone will notify you with a call waiting tone. If you want to

- Answer the waiting call: Press ☐ . The currently active call will be placed on hold automatically. However, if there is already another call on hold, a list will appear allowing you to select a call to end and then answer the waiting call.

- Reject the waiting call: Press ☐ or ☐ (**End**).

    Pressing ☐ (**End**) will immediately reject the waiting call; pressing ☐ will bring up a list allowing you to select a call to end.

Call Menu

If you press the joystick during a call, it will bring up a call menu which provides a number of functions during a call.

☞ Items marked with an asterisk (*) depend on network support and may require a subscription.

Use Headset

Allows you to search for a Bluetooth® headset device.

Use Loudspeaker/Use Handset

Turns the loudspeaker function on/off.

Phone Book

Allows you to search for a number in the Phone Book.

Calls

Allows you to view missed, received and dialled calls.

Conference*

Conference calls allow you to converse with more than one party at a time.

Hold/Unhold/Swap*

Toggles the call status.

Join/Private

Adds a party that is on hold to the current conference call, or isolates a single party in a conference call and puts all other parties on hold.

Transfer

Allows two parties to connect, while ending one's own call (one of the two parties may be involved in an active call while the other is either on hold or being dialled), so as to allow the two parties to have their own call.

Send DTMF

When the phone is connected to other devices or services, you can send DTMF (Dual Tone Multi-Frequency) strings to communicate with answering machines, pagers, computerised telephone services, and other similar devices.

Enter the number and then press 🔘 to send the DTMF string.

End Call

> **End All**
> Ends all calls, whether active or on hold.

> **End Active**
> Ends only the active call.

> **End Hold**
> Ends only a call or calls on hold.

> **End One**
> Ends only a single call by the number or the contact.

Hold/Unhold/Swap

Toggles the call status.

Mute/Unmute

Activates/cancels the silent mode.

SMS

Allows you to read or write an SMS message during a call. For details, see page 40, "SMS".

Calculator

Allows you to use the calculator. For details, see page 65, "Calculator".

STK

Only provided if supported by your network operator. Contact your service provider for details.

Making a video call

A video call allows you to have a real-time, two-way video between you and the recipient. The video image captured either by the near or the front camera will be shown on the recipient's phone.

☞ To make video calls, you need a USIM card and UMTS network coverage. Contact your network operator for details.

To make a video call, enter the phone number, press ⬚ (**Option**) and select Video Call; or press ⬚ and select the contact you wish to call from the Phone Book by pressing ⬚ (**Browse**).

The video call is successfully connected when you can see the two video images and can hear the sound through the speaker.
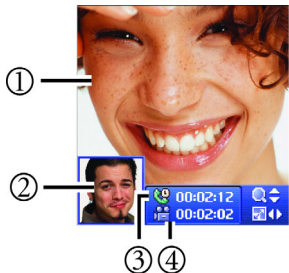
1. Video call main display
2. Video call sub-display
3. Call time
4. Recording time

☞ Push the joystick left/right to shift between main and sub-display.

☞ Push the joystick up/down to zoom in/out of your video image (only available when you select **Internal Camera** in **Image Source**).

For details about video call settings, see page 22, "Video Call Settings".

Answering a video call

To answer a video call, press ▦ or ▭ when there is a message showing that you have an incoming video call.

☞ If you select **Internal Camera** or **External Camera** in **Image Source**, and **Notify Me First** in **Image Delivery**, a notification "Enable video call?" will pop up asking if you want to reject or accept video sending from your phone. Press ▭ (**Yes**) to allow video sending, or press ▭ (**No**) to reject. See page 23, "Options of image delivery". If you select **Camera Off** or **Multimedia** in **Image Source**, the content to be shown on the caller's phone is either empty or is your selected image or video. See page 22, "Changing the image source".

Video Call Settings

Changing the image source

During a video call, press 🔘 and select **Image Source**.

- **Internal Camera**: video image will be captured by the camera with the screen facing you.
- **External Camera**: video image will be captured by the camera on the side of the loudspeaker.
- **Camera Off**: the recipient will not be able to see your video image.
- **Multimedia**: select an image or video to be shown to the recipient.

☞ To select a video file during a video call, please go to **Image Source** > **Multimedia** > **Videos.** Please note that during a video call, only 176 x 144 and .3gp video formats are supported. Depending on the compatibility of the mobile devices, your video file may or may not be played on the recipient's phone.

Changing the display

During a video call, press ⌷ and select **Display**.

- **PIP**: PIP (Picture-in-Picture) allows you to view the caller's and the recipient's video images simultaneously on the display. One appears in the main display and the other appears in the sub-display. Push the joystick left/right to shift between main and sub-display.
- **Full**: Only the caller's or the recipient's real-time video image will be shown.

☞ If you select **Multimedia** in **Image Source**, the video call display is always in **PIP** mode, and you cannot shift between main and sub-display.

Options of image delivery

In standby mode, press ⌷ and then press ⌷ .

Choose **Image Delivery**.

- **Notify Me First**: When a video call arrives, a notification "Enable video call?" will pop up asking if you want to deny or accept video sending from your phone.
- **Auto Delivery**: When a video call arrives and is answered, your video image is automatically sent to the caller.

Options during a video call

Int. Cam/Ext. Cam

During a call, press ☐ (**Int. Cam/Ext. Cam**) to turn on the camera, or to switch to near camera or front camera.

Record

During a call, pressing ☐ (**Record**) will record both the caller's and the recipient's videos on the display.

Call Menu

If you press 🔘 during a call, it will bring up a call menu which provides a number of functions during a call.

Phone Book
Allows you to search for a contact in the phone book.

Calls
Allows you to view missed, received and dialled calls.

End Call
Ends the active call.

Mute/Unmute
Activates/cancels the silent mode.

SMS
Allows you to read or write an SMS message during a call. For details, see page 40, "SMS".

Calculator

Allows you to use the calculator. For details, see page 65, "Calculator".

Image Source

See page 22, "Changing the image source".

Display

See page 23, "Changing the display".

STK

Only provided if supported by your network operator. Contact your service provider for details.

Phone Book

Adding contacts to the phone book

☞ The capacity of a phone book on your SIM card depends on the type of SIM card provided by your network operator.

1. In standby mode, enter the phone number that you want to save, press ▭ (**Option**) and select **Save**.

2. Select the memory where the contact is to be stored. Select from either add **To SIM** or **To Phone**.

   ☞ 📇 will appear on the top of the screen if the contact is stored on your SIM card; 📇 will appear if the contact is stored in your phone memory.

3. Scroll to the data field that you want to edit, and then press 🔘 to enter data.

4. Press ⬚ to return to the phone book data field after filling in the entry.

5. Scroll to the next data field you want to edit and repeat step 3 and 4.

6. Once you have completed editing, press ⬚ (**Save**) to save contact's details.

Phone book entries on SIM card memory

Name	The contact's name.
Number	The contact's phone number.
Caller Group	Used to select a caller group for the contact. To define each caller group, go to **Phone Book** > **Caller Group**. See page 52.

Phone book entries on phone memory

Name	The contact's name.
Mobile Number	The contact's mobile phone number.
Home Number	The contact's home phone number.
Office Number	The contact's office phone number.
E-mail	The contact's e-mail address.
Caller Group	Used to select a caller group for the contact. To define each caller group, go to **Phone Book** > **Caller Group**. See page 52.

Image ID	Used to set the image that will appear on the display when there is an incoming call from the contact. ☞ The image set in this field will replace the image associated with the contact's caller group, if any.
Ring ID	Used to set a ringtone for the contact. When there is an incoming call from the contact, the phone will play this ringtone. ☞ A ringtone set in this field will replace the one associated with the contact's caller group, if any.
Memo	Used to edit memos for the contact.

Finding contacts in the phone book

In standby mode, press ⬚ to display contacts stored in the Phone Book.

- Press the alphanumeric key that corresponds to the first letter of the name you wish to locate the appropriate number of times.
- If necessary, scroll to the entry you want.

☞ You can also go to **Phone Book** > **Find**, and then enter the full name or the first letter of the name to locate a contact.

When you have found the entry you want, you can:

- Press ⌷ to dial the contact's number. If the entry has more than one phone number, select a number you wish to dial.

- Press ⌷ for available options: **Video Call, Call, Send Message, Edit, Copy to SIM/Phone, Send** and **Delete.**

Last missed, dialled and received calls

There are two ways you can view the last missed, dialled and received calls on your phone.

1. If there have been any missed calls, the display will show a missed call message along with the number of calls that were missed. Press the joystick to view the missed call number.

2. In standby mode, press ⌷ to view the list of the most recent missed, dialled and received calls.

Scroll to the number you want and then

- Press ⌷ to call back.

- Press ⌷ (**Option**) and select your desired function.

> ☞ The icon will show beside missed calls; will show beside dialled calls; will show beside received calls.

Using the silent profile

In standby mode, you can long-press ☐ to activate the silent profile. Once it is activated, the phone will alert you to an incoming call by vibrating without ringing.

1. When you long-press ☐ to activate the silent profile, the phone will vibrate for one second. The icon 🔔 will appear in the status bar.

2. To turn off the silent profile, long-press ☐ .

☞ To select or define a profile, go to **Settings** > **Profiles**. See page 74, "Profiles".

Camera and Camcorder

Your phone is a camera-orientated handset that features a digital camera, allowing you to take photos or capture video clips held in the horizontal position as shown in the illustration.
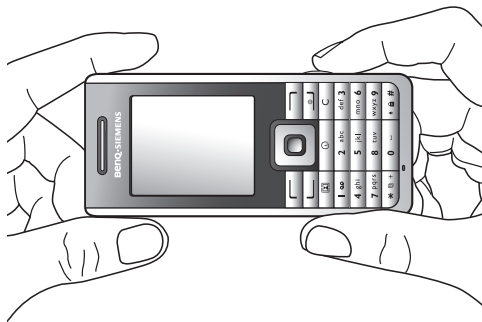
Taking photos
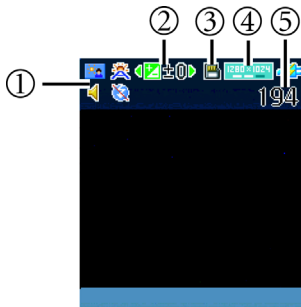
Camera Viewfinder

1. Status bar
2. Exposure value
3. Memory in use
4. Image size
5. Remaining pictures to take

1. In standby mode, long-press the camera shutter button to activate camera mode.

☞ You can also activate camera mode by going to **Entertainment** > **Camera**.

2. The viewfinder is then displayed.

3. Press 🔲 to bring up the **Options** menu. For the functions of various settings, see page 31.

4. The icons on the screen vary depending on your settings. For a description of each icon, see page 33.

5. When viewfinder appears, push left or right to adjust the exposure value. Push up or down to zoom in or out.

6. Press 🔲 or the shutter button to take a photo. The photo will be saved to the phone memory or to the microSD automatically depending on your settings. For options available for the photo you have just taken, see page 34.

Adjusting camera mode settings

1. Press 🔲 to bring up the options menu. The following options are available:

   ■ **Internal Camera:** switch on the camera lens facing you.

   ■ **Turn On/Off Flash:** turn the flash on/off. This option is only available when using the external lens.

   ■ **Settings:** adjust settings according to camera mode.

Function of each setting:

Name	Functions
Image Size	Set the desired image size.
Quality	Set the quality (compression ratio).
Sound	Set the shot tone on or off.
Save to	Change the default memory to phone memory or microSD.
Scene	Load preset settings that best suit the environment you are in.
Effect	Apply a tone or colour to your photo to create an artistic effect.
White Balance	Load preset settings for specific lighting conditions.
Contrast	Adjust the contrast level.

- **View Photos:** browse photos stored in your phone/microSD card's memory.

2. Press ▭ to return to the viewfinder.

Icons in Camera Mode

The icons on the screen vary depending on the settings you have made.

Save to

Icon	Function
	microSD
	Phone Memory

Scene

Icon	Function
	Indoor
	Outdoor

White Balance

Icon	Function
	Auto
	Incandescent
	Fluorescent
	Daylight

Browsing photos

1. Press ⬜ for options available for the taken photo.

Function of each option:

Name	Options
Send	Send the photo by MMS, by e-mail or by Bluetooth® (for more details, refer to page 64).
Set as	Set the photo as Wallpaper or Image ID for a new/existing contact.
Rename	Rename the photo
Details	Shows the name, date, size and resolution details.
View Photos	Browse photos stored in your phone/microSD card's memory.

2. Press ⬜ to exit the **Options** menu.

3. Press ⬜ to delete the photo or press 🔘 to return to the viewfinder.

Capturing video clips
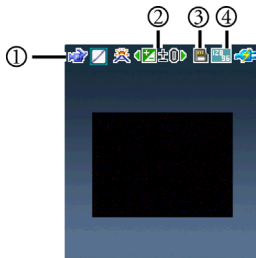
Camcorder Viewfinder

1. Status bar
2. Exposure value
3. Memory in use
4. Image size

1. Go to **Entertainment** > **Camcorder**.

2. The viewfinder is then displayed.

3. Press ⬜ to bring up the **Options** menu. For the functions of various settings, see page 35.

4. The icons on the screen vary depending on the settings you have made. For a description of each icon, see page 37.

5. When viewfinder appears, push left or right to adjust the exposure value. Push up or down to zoom in or out.

6. Press 🔘 to start/stop recording.

7. The video will be saved automatically. See page 37 for details about reviewing the video just taken.

Adjusting camcorder mode settings

1. Press ⬜ to bring up the **Options** menu. The following options are available:

   - **Hide Icons**: show/hide icons shown on the display.
   - **Settings**: adjust settings according to camcorder mode.

Function of each setting:

Name	Functions
Image Size	Set the desired image size.
Quality	Set the quality (compression ratio).
Save to	Change the default memory to phone memory or microSD.
Effect	Apply a tone or colour to your video to create an artistic effect.

Name	Functions
White Balance	Load preset settings for specific lighting conditions.
Contrast	Adjust the contrast level.
Flicker-Free	Eliminate flickering effects to improve viewing quality.

■ **View Videos:** browse videos stored in your phone/microSD card's memory.

2. Press ⬚ to return to the viewfinder.

Icons in Camcorder Mode

The icons on the screen vary depending on the settings you have made.

Save to

Icon	Function
	microSD
	Phone Memory

White Balance

Icon	Function
	Auto
	Incandescent
	Fluorescent
	Daylight

Playing back videos

1. Press to playback the video.

2. Press for options available for the taken video.

Function of each option:

Name	Options
Delete	Delete the video recording.
Send	Send the video by MMS, by e-mail or by Bluetooth® (for more details, refer to page 64).
Rename	Rename the video.
View Videos	Browse videos stored in your phone/microSD card's memory.

3. Press ▭ to exit the **Options** menu.

4. Press ▭ to return to the viewfinder.

Shortcuts

Allows you to assign 8 alphanumeric keys as shortcuts to commonly used functions or frequently dialled numbers.

☞ ▭ is assigned to voicemail dialling and you are not allowed to change it.

In standby mode, push up the joystick to enter **Shortcuts**. The numbers 2 to 9 displayed represent the corresponding 8 alphanumeric keys on the phone.

Setting shortcuts

Shortcuts allows you to set up quick access to functions or phone numbers.

1. Use the joystick to move the selection box to the number key you wish to use as a shortcut key. You can also press the actual alphanumeric key to select it.

2. Press ▭ and select **Add Function/Add Phone**. See step 3 if **Add Function** is selected. See Step 4 if **Add Phone** is selected.

3. From the function shortcuts list, scroll to select an item. Press 🔘 to save the assigned shortcut.

4. From the contact list, scroll to select a contact. Press 🔘 to save the assigned shortcut.

5. Repeat the above step to add or modify function shortcuts.

6. To cancel a shortcut key and restore the key's original function, scroll to the shortcut key that you want to cancel, and then press ▭. Select **Delete** to cancel the shortcut.

Using shortcuts

There are two ways to use shortcuts:

1. In standby mode, long-press an alphanumeric key to access its assigned shortcut.

2. In standby mode, push up the joystick to enter Shortcuts. You can then:

    a. Scroll to move the selection box to the icon corresponding to the desired key and press 🔘 to access its assigned shortcut.

    b. Press the corresponding alphanumeric key to access its assigned shortcut.

Messages

Your phone supports various messaging services including SMS (Short Messaging Service) and MMS (Multimedia Messaging service). SMS allows you to send short text messages, while MMS enables you to send multimedia files through your phone. You must have a subscription that supports MMS. Please contact your network operator for details.

SMS

Receiving a new message

1. When you receive a new message, a text message showing the number of messages received and the message icon ✉ appear on the display.

2. To read the message, press 🔘 . To manage the message, press 🔲 . For details about managing received messages, see page 41.

Creating a new message

1. To bring up the message editing screen, push the joystick left in standby mode, or go to **SMS** > **New**. Use the alphanumeric keys to enter text.

☞ For information on the input method, see page 48.

2. When you have finished editing the message, press ▭ to **Send**, **Save to Drafts** or **Save to Archive.**

Managing the Inbox

Your phone stores incoming messages in the Inbox. To manage Inbox messages, go to **SMS** > **Inbox**.

☞ Read messages saved on the phone or on the SIM will be marked by ✉ or ✉. Unread messages saved on the phone or on the SIM will be marked by ✉ or ✉.

Managing sent items

Sent folder stores messages that have been successfully delivered. To manage Sent messages, go to **SMS** > **Sent**.

Managing drafts

Drafts folder stores failed messages and drafts. To manage drafts, go to **SMS** > **Drafts**.

Managing Archive

Go to **SMS** > **Archive**.

Delete

To clean up all the messages in a folder, go to **SMS** > **Delete**.

Settings

Your phone is already set up to send/receive messages. Contact your network operator for details.

MMS

In order to use MMS, you have to subscribe to both GPRS and MMS services provided by your operator. Contact your operator for details on MMS settings.

Downloading new messages

If you set **MMS** > **Settings** > **Deferred Download** on, the operator will send you a new message notification but will not download the

message. Press 📷 if you wish to download the message.

Reading a message

Once the MMS message is downloaded, the display will automatically

switch to **Inbox**, press 📷 to start/stop playing the MMS message page by page.

Creating a new message

1. To write and send a new MMS message, go to **MMS** > **New**. Use the alphanumeric keys to write the message. Press ⬚ to do the following:

- **Preview**: Play all the pages in the message in sequence.
- **Insert**: Insert images, videos, music, photos, new pages, vCard or vCalendar.
- **Delete**: delete the message.
- **Subject**: Allows you to enter text for the subject.
- **Priority**: Allows you to set the priority for this message.
- **Page Duration**: Sets the length of time that each page is displayed when playing the message.
- **Save to Drafts**: save the message in the Drafts folder.

2. Press ⬚ and select **Send** to send the message.

Managing the Inbox

Your phone stores incoming messages in the Inbox. To manage Inbox messages, go to **MMS** > **Inbox**.

Managing sent items

The **Sent** folder stores messages that have been successfully delivered. To manage Sent messages, go to **MMS** > **Sent**.

Managing drafts

The Drafts folder stores failed messages and drafts. To manage drafts, go to **MMS** > **Drafts**.

Managing Archive

Go to **MMS** > **Archive**.

Delete

To clean up all the messages in a folder, go to **MMS** > **Delete**.

Settings

For MMS advanced settings, go to **MMS** > **Settings**.

Filter

Your phone will reject all MMS messages from the senders listed here.

Expiry

Set the length of time your outgoing MMS message stays on the server before it reaches the recipient successfully.

Size Limit

Set the maximum size for a message that the phone receives. If an incoming message exceeds this size, the phone will not be able to download that message.

Server Info

Activate the MMS server used for sending and receiving MMS messages.

Deferred Download

When set to On, the phone will only download the sender's details instead of the whole message.

Delivery Report

Ask the recipient to return a confirmation after receiving your MMS message.

Read Report

Ask the recipient to return a confirmation after reading your message.

E-mail

An e-mail account and access to a GPRS or UMTS network is required to use this service.

Receiving new messages

To send and receive e-mail, go to **Messages> E-mail > Receive.** Downloaded messages are stored in the **Inbox**.

Creating a new message

1. To write and send a new e-mail message, go to **Messages** > **E-mail** > **New**. To edit the message content, scroll to the **Content** and then

   press $\boxed{\textcircled{\scriptsize{\square}}}$. Press $\boxed{}$ to do the following:

   - **Insert Text**: Insert preset texts to the message.

   - **Attachments**: Press $\boxed{}$ and select **Insert** to insert images, videos, music files, a new photo, a new page, a business card of a contact in your phone book, or a scheduled event in your calendar.

2. When you have finished creating the e-mail message, press $\boxed{\textcircled{\scriptsize{\square}}}$ to

   view the attachments list. Press $\boxed{}$ to return to the message.

   - **To**: Enter the recipient's e-mail address or select a contact's

     e-mail address from your phone book by pressing $\boxed{}$. To send your message, this field cannot be left blank.

   - **Content**: content of the message.

   - **Subject**: Enter text for the subject.

- **Cc**: Send the message as a carbon copy to others.
- **Bcc**: Send the message as a confidential carbon copy to others.
- **Priority**: Set the priority for this message.

3. Press ☐ and select **Send** to send the message.

Settings

For your e-mail connection settings, please contact your e-mail service provider for details. To configure the settings manually, press ☐ and select **Add**.

Voicemail

Get Voicemail

Dials the voicemail number provided by your network operator to access your voicemail box.

☞ In standby mode, long-press ☐ to access your voicemail box.

Set Number

Allows you to save your voicemail phone number.

Cell Broadcast

Cell broadcast messages are messages that your network operator broadcasts to all phones within a particular area. These messages are broadcast in numbered channels. For example, channel 030 might be for local weather, 060 for traffic reports, 080 for information about local hospitals, taxis, pharmacies and so forth. You can receive cell broadcast messages that your network operator broadcasts, and select your preferred topics and languages.

☞ For more information about available channels and a list of the information they provide, contact your network operator.

Set Status

To activate the cell broadcast feature, set this option to **On**.

Topics

The topics listed in the **Topics** list represent the broadcast information that you have selected to receive from your network operator.

Language

You can limit the cell broadcast information that you receive from your network operator to a specific language.

Input methods

When an editing screen is displayed, the current text input method is indicated in the upper right corner of the screen. The phone has the following input methods.

ABC	Letter input mode
TAP	Predictive input mode
123	Numeric input mode

Changing the input method

When an editing screen is displayed, repeatedly press 🔘 until your desired input method appears.

Shifting between upper and lower case letters

When an editing screen is displayed, long-press 🔘 to shift between lower and upper case letters.

Letter input mode (Abc)

How to use the letter input mode

• You must press the key corresponding to the desired letter the correct number of times in order to enter the letter you want. Display letters for entry according to the order shown on each key. Pressing a key once will display the first letter listed on the key, while pressing it twice will display the second letter, and so on.

- When you have entered a letter and wish to enter the next letter, either wait for two seconds until the cursor moves to the next text entry position, or press the key immediately for the next letter.

- Short press $\boxed{0 \smile}$ to enter a space before beginning a new word.

- While entering text, use the scroll key to move the cursor. Press $\boxed{c}$ once to delete a character; long-press $\boxed{c}$ to delete all entered text.

Predictive input mode (iTap)

How to use iTap

- Press each key associated with the letter you want to enter only once. The letters you have entered appear on the display. The candidate words will change with each key you press.

- If the first highlighted candidate word is the wrong word, scroll to view other candidate words and locate the desired word.

- Once the correct word is located, press $\boxed{\textcircled{\hspace{1pt}}}$ to enter the word.

- While entering text, use the scroll key to move the cursor. Press $\boxed{c}$ once to delete a character; long-press $\boxed{c}$ to delete all entered text.

Example of using iTap

To enter "Come home" using iTap:

1. Press $\boxed{2\ abc}$ $\boxed{mno\ 6}$ $\boxed{mno\ 6}$ $\boxed{def\ 3}$ to select C, o, m, e.

2. Press $\boxed{\textcircled{\hspace{1pt}}}$ to enter "Come ".

3. Press $\boxed{4\ ghi}$ $\boxed{mno\ 6}$ $\boxed{mno\ 6}$ $\boxed{def\ 3}$ to enter "home".

4. Since "good" is not the word that you wish to enter, scroll to the next candidate word "home".

5. Press ⊡ to enter "home".

Numeric input mode (123)

The numeric input mode allows you to use the alphanumeric keys ⬚ to ⬚ to enter numbers.

Entering symbols

To open the symbol table, press ⬚. Press ⬚ to open the next page. Press ⊡ to place the symbol in the text. Press ⬚ to hide the table.

4 **Menus**

The phone features a variety of functions and these are organised in the menus and sub-menus. The main menu consists of nine categories. Each category has related sub-menus.

For information about navigating menus, see page 13.

Phone Book

List
View a list of all contacts stored in your phone's and/or SIM card's memory.

Find
Used to locate a contact in the Phone Book. Enter the first letter to view a list of contacts beginning with the letter. Scroll to the contact you want to find. See page 27 for details about what to do after locating a contact.

Add
Used to add a new contact to the Phone Book. See page 25 for details.

Copy
Used to copy contacts stored in the phone to the SIM card, or copy contacts stored on the SIM card to the phone. You can also select to copy individual contacts.

Delete

Deletes a contact from the Phone Book. You can delete one contact at a time, or delete all contacts at once.

Caller Group

Caller groups are combinations of phone settings used to identify a particular group of contacts. Press ▭ to select the ring or image for a particular caller group, or to rename the caller group.

My Number

Stores your name and phone number.

Memory Status

Shows you the number of entries that have been stored and the maximum entries that can be stored, in the SIM card and in the phone.

Memory in use

Select the phone book memory to use. You can use the phone memory, the SIM card memory, or both.

Messages

For a description of the features available in the Messages menu, see page 40, "Messages".

Call Records

This menu includes a list of your missed calls, dialled calls and received calls. Call costs and time are also recorded.

Missed

Shows your most recent missed calls.
See page 28 for details.

Received

Shows your most recent received calls.
See page 28 for details.

Dialled

Shows your most recent dialled calls.
See page 28 for details.

Delete All

Deletes all of the call records.

Duration

☞ This feature is only accessible if supported by your network operator.

Last

Shows the duration of the last call.

All

Shows the total time for all calls.

Received

Shows the total time for all received calls.

Dialled

Shows the total time for all dialled calls.

Cleanup

Resets all call time records.

Cost

☞ The cost calculation requires the support of the network operator.

Last

Shows the cost of your last call.

All

Shows the total cost of all calls.

Cleanup

Resets all call cost records.

☞ Requires entry of the PIN2 code.

Limit

Shows the current limit set for total call costs.

Settings

Allows you to set the unit price and a currency for calculating call costs.

☞ Requires entry of the PIN2 code.

♠ Games

Your phone features entertaining applications and games. You can play the games that are embedded in the phone, or download Java applications directly to your phone.

Games

Embedded games and downloaded Java games are stored in this menu.

To find out how to play these games, please read their on-screen instructions.

☞ To adjust the volume, return to standby mode and long-press the upper or lower volume key.

Settings

Default URL

Set the default site for games download.

Download Size

Set the size limit for each game download.

Java Version

The phone's Java virtual machine version.

Memory Status

Shows the amount of memory available for Java applications.

Entertainment

Camera

For information on using the camera, see page 30, "Camera and Camcorder".

Camcorder

For information on using the camcorder, see page 34, "Capturing video clips".

MP3 Player

Your phone features an MP3 player which allows you to play your favourite music on the go.

☞ The MP3 Player can only play audio files saved in the following formats: MP3 (MPEG1-LAYER3/MPEG2-LAYER3) and AAC/AAC+ (ADTS Format (LC & HE-AAC Profile)).

Building a playlist

You need to build a playlist the first time you use the MP3 player.

1. On the MP3 player screen, press ⬜ and select **Edit Playlist** to build your playlist.

2. Scroll to the song you want to add, then press the joystick to select the song. Repeat the step to include multiple songs in the playlist. Press ⬜ to confirm your choices.

☞ Select **All** to select or deselect all songs.

Playing the music
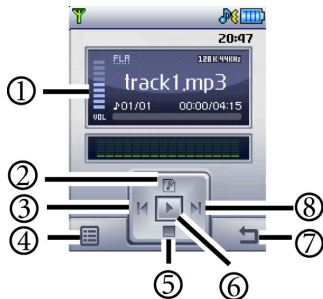
1. Volume
2. View playlist
3. Play the previous song
4. Options
5. Stop playing music
6. Play/Pause
7. Exit MP3 Player
8. Play the next song

☞ Songs will be played in the sequence in which they are saved. To play songs in a random order, press ⬚ and select **Shuffle**.

☞ To adjust the volume during playback, press ⬚.

MP3 Player Settings

Press ⬚ to access available settings for the MP3 player.

Use headset

Search for a Bluetooth® headset. For details, see page 63.

Setting the EQ (Equalizer) mode

Select **Set EQ** to choose your preferred EQ mode that will influence the sound during playback.

Repeat

Select **Set Repeat** to play one or all songs repeatedly.

Play songs randomly

Select **Shuffle** to play songs in a random order.

Editing the playlist

Select **Edit Playlist** to build a playlist and manage your songs.

☞ If a file in the playlist has been renamed or removed, the MP3 player will not be able to locate it. For details, see page 88.

Details

View details of the song currently playing.

Uploading music to your phone

Uploading music to your microSD is simple using the supplied USB cable. Refer to page 67 for details.

Media Centre

Digital Rights Management

☞ **Digital Rights Management**

This phone features the Digital Rights Management (DRM) technology (OMA DRM v.1.0). DRM allows for copyright-protected audio/visual content transmissions for playback in computers, portable devices and network devices, while protecting them from unauthorised use.

Images

Images stores images and photos you have taken.

1. Select the desired location and scroll to the desired file.

2. Press 🔘 to display the selected file. Scroll up or down to display the next or previous photo.

3. Press ▭ to perform the following tasks with the file:

- **Send**: send the file by MMS, by e-mail or by Bluetooth®.
- **Delete**: delete the selected photo.
- **Set as**: set the file as the wallpaper or an image caller ID.
- **Edit**: add a frame, stamp and rotate the photo.
- **Move to microSD/Phone**: move the photo from phone to microSD, or from microSD to phone.
- **Copy to microSD/Phone**: copy the photo from phone to microSD, or from microSD to phone.
- **Slideshow**: view all the photos in a slideshow format.
- **Rename**: rename the photo.
- **Browsing Mode**: view the photos in a list or in thumbnails.
- **Delete All**: delete all the photos
- **Details**: view the name, date, size and resolution of the selected photo.

Videos

Videos stores video clips captured by the camcorder or transferred from other devices.

1. Select the desired location and scroll to the desired video clip.

2. Press 🔘 to start playing the video.

3. Push the joystick left/right and hold to rewind/fast forward.

4. Press the volume key to adjust the volume of the video.

5. When playback stops, press ⬚ to perform the following tasks with your video.

- **Delete**: delete the selected video.
- **Set as Image ID**: set this video as an image caller ID for a specified contact.
- **Send**: send this video by MMS, by e-mail or by Bluetooth®.
- **Copy to microSD/Phone**: copy the video from phone to microSD, or from microSD to phone.
- **Move to microSD/Phone**: move the video from phone to microSD, or from microSD to phone.
- **Rename**: rename the video.
- **Delete All**: delete all the videos
- **Details**: view the name, date, time, resolution and size of the selected video.

Music

Music stores ringtones, MP3 music and other supported audio files.

Default

Default stores ringtones. Select a ringtone and press ⬚ to perform the following:

- **Send**: send the ringtone by MMS, by e-mail or by Bluetooth®.
- **Set as**: set the ringtone for incoming calls or as a ring ID for a contact.
- **Details**: Shows details of the ringtone.

MP3

MP3 stores MP3 files. Select an MP3 file and press ▭ to perform the following:

- **Delete**: delete the selected MP3 file.
- **Delete All**: delete all files.
- **Send**: send the MP3 by e-mail/Bluetooth®
- **Set as**: set the MP3 for incoming calls or as a ring ID for a contact.
- **Copy to microSD/Phone**: copy the file from phone to microSD, or from microSD to phone.
- **Move to microSD/Phone**: move the file from phone to microSD, or from microSD to phone.
- **Rename**: rename the file.
- **Details**: view details of the file.

Others

Other stores downloaded files whose formats are not supported by the handset.

Memory Status

Shows the amount of used and available memory on the phone and on the microSD card.

Tools

Alarm

To set an alarm, follow the steps below:

1. Select an alarm.
2. Scroll to the right to turn the status on.
3. Scroll to an option and change the setting as needed.

Frequency

Select the days you want the alarm to sound.

Time

Enter the time for the alarm to sound.

Time Duration

Set the length of the alarm.

Alarm Tone

Set the ringtone of the alarm.

4. To save all your current alarm settings, press ▭.

5. When a setting is saved, 🔔 will appear in the display's status bar.

☞ When the alarm goes off, press ▭ (**Snooze**) to activate the snooze. The alarm will go silent and ring again five minutes later.

Press ▭ to turn off the alarm. The alarm will not ring until the next scheduled time.

Bluetooth®

Your phone features the Bluetooth® function that allows you to have a wireless connection between your mobile phone and your Bluetooth® devices.

Adding a Bluetooth® device to your phone

1. Go to **Tools** > **Bluetooth** > **Turn On** to turn on Bluetooth®. You will be asked to search for to add Bluetooth devices; press ▭ to begin searching.

2. Alternatively, you can go to **Tools** > **Bluetooth** > **Add Device**. The phone then begins searching.

3. When a list of available devices appear on the screen, select a device to connect to and press 🔲 .

4. When asked for permission to pair, press ⬜ to connect.

5. Enter the passkey for the device, both in the phone and in the device that you are connecting to.

6. When the passkey is accepted, the device is paired.

Establishing a connection with your Bluetooth® headset

1. Go to **Tools** > **Bluetooth** > **Turn On** to turn on the Bluetooth®.

2. You will be asked to search for and to add Bluetooth® devices; press ⬜ to begin searching. Make sure that your Bluetooth® headset is switched on and is in "pairable mode".

3. When a list of devices appears on the screen, select a device to connect to and press 🔲 .

4. When a message pops up, press ⬜ to connect.

5. Enter the Bluetooth® headset passkey and press 🔲 .

☞ Please check the user manual of your Bluetooth® headset for this passkey.

6. When the passkey is accepted, the headset is paired. The Bluetooth® connection is established automatically.

Sending an item using Bluetooth®

You can send the items in your phone such as images, music, vCards (Phone Book records), or vCalendars (Calendar events) to another Bluetooth® device. When you select **By Bluetooth** as the **Send** method, a list of the once connected Bluetooth® devices that can transfer data appears. Select an available device to connect to and press 📷 .

Managing your Bluetooth® devices

Go to **Tools** > **Bluetooth** > **Devices**. Select a device from the list, and press ⬜ to access a list of options.

When you are connected to a Bluetooth-enabled device that supports the FTP profile, select **Browse Device** to browse for the files and folders, move, copy and delete them wirelessly.

Settings

Set the **Discoverable** status **On** for the device to be found. You can also give the device a name.

Calendar

Calendar allows you keep track of upcoming events. You can set the alarm to ring when it comes to the date.

Creating a new memo

1. When you open the Calendar, the phone will highlight the current date. To enter a memo in another date, move the curser to highlight that date. You can also enter the date you want by selecting **Go to Date** under **Option**.

2. When the desired date is highlighted, press ⬜ and select **Add** to open the memo editor.

3. Edit the data fields in the memo editor as needed. Press ⬜ to save the memo.

4. To auto delete the memos after a specific period of time, press ⬜ and select the **Delete After**. Select the timeframe in which you want the deletion to be auto executed.

Shortcuts

For information on Shortcuts, see page 38.

Calculator

Allows you to use the phone as a calculator.

1. Enter numbers using alphanumeric keys.

2. Use the joystick to perform calculations. Push up to perform +(add); push down to perform -(subtract); push right to perform /(divide); push left to perform x(multiply); press 🔘 to get the result(equal).

3. Press ⬜ to delete numbers and symbols entered. Press ⬜ to enter a decimal point. Press ⬜ to leave the calculator screen.

Currency Converter

Currency converter allows you to convert currencies and set the exchange rate.

1. To set the currencies for conversion, press ⬜ and select either **Currency 1** (to set the currency at the top of the screen) or **Currency 2** (to set the currency at the bottom of the screen).

2. To set the exchange rate, press ⬜ and select **Rate Setting**.

3. Enter the currency amount; the result will appear in the other currency field.

Stopwatch

Stopwatch allows you to measure time intervals.

1. Press 🔘 to start/halt the stopwatch.

2. While the stopwatch is running, you can press ⬜ to save each elapsed time.

3. Scroll to view the list of elapsed times.

4. To reset the stopwatch, press ⬜.

Countdown Timer

Countdown timer allows you to specify the length of time to count down.

1. Enter the length of time you want to count down.

2. Press 🔘 and the timer starts counting down to zero.

3. Press 🔘 to halt the Countdown Timer.

4. To reset the Countdown Timer, press ⬜.

USB Connection

Transferring data between the phone and a computer

1. Turn the phone on.

2. Connect the phone to the computer using the phone's data cable. Plug the cable's smaller end into the phone's data cable jack at the bottom, and the bigger end into the computer's USB port.

3. The phone will display a **USB Connection** menu. Select the desired task from the following:

   - **PC Sync**
     To synchronise the phone with your computer to transfer multimedia files, Phone Book data or Calendar memos, select this option.

   - **Modem**
     The phone can work as a modem to let you connect your computer to the Internet.

   ☞ Before activating the data synchronisation or the modem function, make sure you have installed on your computer the software tool designed for use with the phone.

4. The icon will appear on the Windows status bar at the bottom right of the computer screen, indicating that the connection is successful.

Transferring files between the computer and the microSD card or phone memory

1. Turn the phone on. Make sure the microSD card is inserted in the phone.

2. Connect the phone to the computer using the phone's data cable.

3. From the phone's **USB Connection** menu, select **Mass Storage**.

4. Once the connection is established and detected by your computer, the microSD card will function as a removable storage device.

5. On your computer, double-click on the **My Computer** icon to open the **My Computer** panel, where the icon of a removable disk is displayed. This icon represents the storage capacity of the microSD Card.

6. Double-click the icon and the computer screen will display all the folders stored inside.

7. The multimedia files are stored in folders by category. For example, images and graphics will be stored in the **Images** folder.
   The default folders are as follows:

   - **Camera Photos**
     Stores photos taken from the camera.

   - **Images**
     Stores images and graphics.

   - **MP3**
     Stores MP3, AAC, WMA, ASF(Audio Only) files.

   - **Other**
     Stores files downloaded through MMS, WAP or Bluetooth® that are not supported by the phone.

   - **Videos**
     Stores video recordings taken from the camcorder and downloaded video files.

8. Now you can start to transfer files between your PC and the microSD using the Copy/Paste commands on your PC, or by dragging the selected files to the desired folder.

☞ When copying a file from your computer to the microSD card, you must place the file in the folder intended for this type of file. For example, an MP3 file must be placed in the **MP3** folder in order to be used successfully in the phone.

Flashlight

You phone features an integrated flashlight to provide illumination.

🌐 Services

Your phone features a WAP browser, allowing you to use the phone for mobile Internet connectivity. You can browse the online services offered by the network operator or ISP, such as information on financial news, sports, travel and entertainment. To use the phone to go online, the necessary WAP and GPRS settings must be made.

☞ To activate the mobile Internet connectivity, consult your network operator for WAP and GPRS services. Generally the network operator will transmit the needed settings to your phone automatically. If not, you will need to configure the necessary settings manually. For further details, contact your network operator.

WapURL

Allows you to save URLs.

1. Select **Add Profile** to manually configure the server's settings as follows:

- **Profile Name**
  Gives the WAP server a name.

- **Homepage**
  Sets the homepage that the browser will link to when it is started up.

- **IP Address**
  Enter the IP address used for accessing the mobile Internet.

- **Port**
  Enter the connection port specified by the network operator.

- **NAP**
  If you are using a GPRS network, choose to configure **GPRS NAP** settings or **CSD NAP** settings and select either type of settings to get online.
  If you are using a dial-up network, you are restricted to configuring only the **CSD NAP** settings to connect to the Internet.

  ☞ For detailed information on how to configure GPRS and CSD settings properly, contact your network operator.

2. Press ▭ to save the settings.

3. Scroll to the server that you would like to use and press 🔘 to confirm your choice.

WAP Service

Start Browser

Starts up the browser and connects to the homepage.

Browsing a webpage

Referring to the soft key commands on the screen, press ▭ and ▭ to perform needed tasks while browsing a webpage. Scroll up or down until the item you want was highlighted, and then press the joystick to select it.

Ending the online session

While online, long-press ▭ to close the browser and return to the standby mode.

WAP message

When you receive a new WAP message, ▨ will be shown on the display. This option will start up the browser so you can read the WAP message.

Go to URL

Allows you to link to the URL you enter.

WAP Settings

Allows you to configure settings for different network operators' WAP servers, and then select the desired server to get online.

1. Scroll to the desired server and press ⬜ .

2. Select **Add Profile** to manually configure the server's settings as follows:

   - **Profile Name**
     Gives the WAP server a name.

   - **Homepage**
     Sets the homepage that the browser will link to when it is started up.

   - **IP Address**
     Enter the IP address used for accessing the mobile Internet.

   - **Port**
     Enter the connection port specified by the network operator.

   - **NAP**
     If you are using a GPRS network, choose to configure **GPRS NAP** settings or **CSD NAP** settings and select either type of settings to get online.
     If you are using a dial-up network, you are restricted to configuring only the **CSD NAP** settings to connect to the Internet.

   ☞ For detailed information on how to configure GPRS and CSD settings properly, contact your network operator.

3. Press ⬜ to save the settings.

4. Scroll to the server that you would like to use and press 🔘 to confirm your choice.

NAP Settings

Used to configure GPRS or CSD settings according to the network type used by the phone.

Service Number

Provided by your network operator if the service is supported. For further details, please contact your network operator.

STK Menu

Shown only if it is provided by your SIM card. For further details, please contact your network operator.

⚙ Settings

Date & Time

Used to set the time and date, as well as the format that will be displayed on the screen.

Date

Set today's date.

Time

Set the current time.

Format

Set the format in which the date and the time will be displayed.

Auto Power On/Off

Allows you specify a time for the phone to be turned on or off automatically.

> ⚠ When on an aircraft, be sure that you deactivate the **Auto Power On/Off** feature.

1. Select **Power On** or **Power Off**.
2. Scroll to turn the status on or off.
3. If status is set to **On**, specify a time.

Profiles

A profile is a group of settings that determine whether the phone will alert you to incoming calls through a ringtone or a vibrating alert, and how ringtones in general are used on the phone. These settings allow the phone's operations to best suit the environment you are in.

1. Scroll to the desired profile and then press the joystick to activate this profile. You can choose from the following profiles:

   Normal
   The default profile.

   Meeting
   Suits a meeting environment.

   Silent
   Suits an environment where silence is required.

   Outdoors
   Suits an outdoor environment.

   Personal
   Use this profile for a group of custom settings.

2. To customise settings, scroll to a profile and then press ⬚.

☞ You cannot modify settings in Silent mode.

Vibrate
Decides whether the phone will vibrate when there is an incoming call.

Call Ring
Allows you to set the ringtone that will sound when there is an incoming call.

Message Tone
Allows you to set the ringtone that will sound when there is a new message.

Calendar Tone
Allows you to set the ringtone that will sound when your calendar event approaches.

Keypad Tone
Decides whether the keypad will sound when keys are pressed.

Ring Volume
Allows you to adjust the ring volume.

Restore
Allows you to reset the profile to its default configuration. (Phone code required: 1234)

Display

Wallpaper
Designate the wallpaper used for the standby screen.

Personal Banner
Enter text to be displayed on the standby screen.

Contrast
Scroll up/down to adjust the contrast of the display.

Brightness
Scroll up/down to adjust the brightness of the display.

Backlight Duration
Set the length of time the backlight stays on.

Paging LED
When set to **On**, the LED will emit a flashing light, so that the phone can be easily found in the dark.

Audio

Call Ring
Set the ring that will sound when there is an incoming call.

Message Tone
Set the ring that will sound when there is a new message.

Calendar Tone
Set the ring that will sound when your calendar event approaches.

Keypad Tone
Choose whether the keypad will sound when keys are pressed.

Ring Volume

Adjust the ring volume. Scroll up or down to adjust it.

Speech Volume

Adjust the speech volume. Scroll up or down to adjust it.

Key assignment

Allows you to assign functions to the four-way navigation joystick. When functions have been assigned, you can access the functions by pushing up/down/left/right in standby mode.

1. Scroll to a Navi key and press 〖◎〗.

2. Select one function from the list and press 〖◎〗.

3. When you are ready to save the assignments, press 〖▭〗.

Call settings

Answer mode

Send Key:
Allows incoming calls to be answered only by pressing 〖▭〗.

Any Key:
Allows any key except 〖▭〗 to be used to answer an incoming call.

Automatic:
If the Automatic answer mode is activated, the phone will ring for five seconds, and then the incoming call will be answered automatically.

☞ Only available when a headset is connected to the phone.

Connect Alert

This feature allows the phone to ring, vibrate, or flash the backlighting when the recipient of a call has answered.

Minute Minder

If the status is set to On, the phone will beep according to the duration or time period set for the Minute Minder.

Show Number

Decides whether your phone number will be displayed on the recipient's phone when you make a call. Select **Preset** to allow the default set by the network operator.

Call Divert

This feature allows you to divert calls to a designated phone number or voicemail box.

☞ Requires the support of the network operator.

Divert All
Diverts all incoming calls.

When Busy
Diverts incoming calls when you are in the middle of another call.

No Reply
Diverts incoming calls when you do not answer.

Not Reachable
Diverts incoming calls when your phone is turned off or outside network coverage.

Cancel All
Cancels all call divert options.

Call Barring

You can request that your network operator block the dialling or receiving of certain calls. To activate or cancel any of the options below, you must enter the network password provided by the network operator.

☞ Requires the support of the network operator.

All Outgoing

Blocks dialling of any calls from the phone.

Intl. Out

If this option is activated, no international calls can be made with your phone.

Intl. Except Home

If this option is activated, your phone can only be used to dial local calls and calls to your home country from abroad. Other international calls will be barred.

All Incoming

Rejects all incoming calls.

Incoming When Roaming

If you are in another country (using roaming), activating this option will cause the phone to reject all incoming calls.

Cancel All

Cancels all call barring settings. You must enter the network password in order to cancel these settings.

Change Password

You can change the network password, which can be obtained from the network operator.

Call Waiting

If there is an incoming call when you are in the middle of another call, the screen will display the number of the incoming call and a call waiting message to alert you. You can activate, cancel or view the status of this feature from this menu.

☞ Requires the support of the network operator.

Auto Redial

If there is no answer at a number you have dialled, the phone will automatically redial.

Fixed Dialling No.

After this feature is activated, the phone will only be able to dial numbers on the Fixed Dial Number list. If a number is not on the list, calls cannot be made to this number.

☞ To activate or cancel this feature, you must enter the PIN2 code.

⚠ If the PIN2 code is entered incorrectly three consecutive times, the PIN2 code will be locked down. You will need the PUK2 code to unlock the PIN2 code. Contact your network operator to obtain the PUK2 code.

To create a Fixed Dialling Number list,

1. Press ▭, then press ▭ and select **Add**.
2. Enter the PIN2 code, and then add a new number to your Fixed Dial Number list.

Network

Generally speaking, the network that your phone uses is configured automatically. When turned on, the phone will automatically connect to the network provided by your network operator, or will automatically connect to the roaming network when you are outside the coverage of your regular network. When outside the coverage of your regular network, you can select the local network system manually.

☞ Your network operator must be able to support network selection in order for you to use this feature.

Network Mode

Set the network searching to automatic or manual.

Automatic:
The phone will automatically scan for the available network when you are outside the coverage of your regular network.

Manual:
The phone will list all the available networks of telecom providers when you are outside the coverage of your regular network.

Connection

Allows you to set whether the phone will search for a GPRS network when it is turned on.

3G & GSM:
The phone will search for available 3G and GSM networks.

GSM Only:
The phone will search only for available GSM networks.

3G Only:
The phone will search only for available 3G networks.

Security

You can use various codes and locks to prevent unauthorised use of the phone.

PIN Code

The PIN (Personal Identification Number) is the password provided by your network operator. You need this password in order to use the SIM card.

> ⚠ If you enter the PIN incorrectly three times in a row, the SIM card will be locked. You must now enter the PUK (Personal Unblocking Key) for that SIM card in order to unlock it. Please contact your network operator to obtain a PUK.

PIN1 Code

Used to activate, deactivate or change the PIN1 Code. To change the PIN1 Code, select **Set Status** and set to **On**. Enter PIN1.

PIN2 Code

Used to change the PIN2 code. The procedure is the same as for the PIN1 Code.

Phone Lock

Once the phone lock is activated, you will be required to enter the phone code when the phone is turned on. You must enter the correct code to unlock it (the default phone code is 1234). When the phone is locked, you will only be able to make emergency calls.

Auto Keypad Lock

Used to create a keypad lock. When you have not used the keypad for a specified period of time, the keypad will be locked. Scroll to set the status **On**, and select the time duration of inactivity before the keypad lock is to be activated.

Power Saving Mode

Activating this mode will turn off the keypad backlighting and the brightness of the display backlighting will be reduced to conserve battery power.

Language

Select the language that the phone will use.

Flight Mode

The phone will not search for any network under this mode.

Restore

Restores all the settings to their factory default.
(Phone code is required: 1234)

➎ Care and Maintenance

Take note of the points noted below to ensure that you are using the phone properly and to extend the lifespan of the phone.

- Store the phone and its accessories out of the reach of children.
- Keep the phone and accessories dry, and use the phone in environments where the temperature is between -10º C and 45º C. High or low temperatures outside this range may damage the phone.
- If possible, do not use or store the phone in excessively dusty or dirty environments.
- Do not remove the warranty seal on the phone yourself, nor allow an unauthorised dealers to do so.
- Do not use strong detergents or organic solvents to wipe or clean the phone.
- If your phone or its accessories are not operating normally, contact an authorised dealer immediately.
- Use only genuine BenQ accessories such as batteries, battery charger and handsfree kit to ensure the phone's normal operation and preserve battery life, as well as to protect the safety of your person and belongings. Use of non-BenQ accessories will not allow your phone to achieve optimal performance, and may cause the phone to malfunction. Any malfunctions or damage caused by the use of third-party accessories are not be covered by the terms of the product warranty, and will invalidate the product warranty.
- Do not allow objects that may discharge electricity to come into contact with the charging socket on the bottom of the phone or the metal contacts on the battery, as this may cause short circuits and put you in danger.

6 Troubleshooting

If you encounter problems while using the phone, or if it performs erratically, you can consult the information in the chart below. If your particular problem cannot be resolved using the information in the chart, contact the dealer where you purchased the phone.

Problem	Possible cause	Solution
Poor reception	• The network signal is too weak at your current location - for example in a basement or near a tall building - because wireless transmissions cannot effectively reach it.	Move to a location where the network signal can be properly received.
	• The network is busy at the current time (during peak times, for example, there may be too much network traffic to handle additional calls).	Avoid using the phone at such times, or try again after waiting a short time.
	• You are too far away from a base station for your network operator.	You can request a service area map from your network operator.
Echo or noise	• Poor network trunk quality on the part of your network operator.	Hang up the phone and dial again. You may be switched to a better-quality network trunk or phone line.
	• Poor local telephone line quality.	

Problem	Possible cause	Solution
Shortened standby time	• The standby time is related to your network operator's system configuration. The same phone used with different network operators' systems will not provide exactly the same length of standby time.	If you are located in an area where signalling is weak, shut off the phone temporarily.
	• The battery is depleted. In high-temperature environments, battery life will be shortened.	Use a new battery.
	• If you are not able to connect to the network, the phone will continue to send out signals as it attempts to locate a base station. Doing so consumes battery power and will consequently shorten standby time.	Change your location to one where the network is accessible, or turn off your phone temporarily.
You cannot switch your phone on.	• Battery power has been depleted.	Recharge the phone's battery.
SIM card error	• SIM card malfunction or damage.	Take the SIM card to your network operator for testing.
	• SIM card inserted improperly.	Insert the SIM card properly.
	• Dirt on the SIM card contacts.	Use a soft, dry cloth to clean the SIM card contacts.

Problem	Possible cause	Solution
Unable to connect to the network.	• SIM card invalid.	Contact your network operator.
	• You are not within the network's service area.	Check the service area with your network operator.
	• Poor signal.	Move to an open space, or if you are inside a building, move closer to a window.
You cannot answer incoming calls.	• You have activated the **Call Barring** feature.	Go to **Settings** > **Call Settings** > **Call Barring**, and then select **Cancel All**.
You cannot make outgoing calls.	• You have activated the **Call Barring** feature.	Go to **Settings** > **Call Settings** > **Call Barring**, and then select **Cancel All**.
	• You have activated the Fixed Dialling Number feature.	Go to **Settings** > **Call Settings** > **Fixed Dialling No.** and select **Off** to turn this feature off.
PIN Code is blocked.	• You have entered an incorrect PIN code three consecutive times.	Contact your network operator. If the network operator provides the SIM card's PUK code, use the PUK code to unlock the SIM card.
Battery will not charge.	• The battery or battery charger is damaged.	Contact the dealer.
	• The phone's temperature is below 0° C or higher than 45° C.	Adjust the battery charging environment to avoid extremes of temperature.
	• Poor contact between the battery and charger.	Check all the connectors to make sure all connections have been properly made.

Problem	Possible cause	Solution
Unable to enter information in the Phone Book.	• The Phone Book's memory is already full.	Delete unnecessary data from the Phone Book.
Unable to select certain features.	• Your network operator does not support these features, or you have not applied for services that provide these features.	Contact your network operator.
Unable to play tracks on the **MP3 Player**	• If a music file has been renamed or removed in the **Media Centre**, the MP3 player will not be able to locate the file and play it. You need to update the playlist in the **MP3 Player**.	Remove the old MP3 file from the playlist, and add the track with the updated file name to the playlist.

🕖 Customer Care

⚠ We offer fast, individual advice! You have several options:

Our online support on the Internet:

www.BenQMobile.com/customercare

We can be reached any time, any place. You are given 24 hour support on all aspects of our products. Here you will find an interactive fault-finding system, a compilation of the most frequently asked questions and answers, plus user guides and current software updates to download.

You will also find the most frequently asked questions and answers in the section entitled "Troubleshooting" in this user guide on page 85.

You can also get personal advice about our range of products on our Premium Hotline:

United Kingdom 0906 9597500

(0.75 £ per minute)

Qualified employees are waiting to offer you expert information about our products and installation.

In some countries repair and replace services are impossible where the products are not sold through our authorised dealers.

If repair work is necessary, please contact one of our service centres:

Abu Dhabi.......................................0 26 42 38 00

Argentina 0 81 02 22 66 24

Australia 13 00 66 53 68

Austria...05 17 05 17

Bahrain..40 42 34

Bangladesh 0 17 52 74 47

Belgium	0 78 15 22 21
Bolivia	0 21 21 41 14
Bosnia Herzegovina	0 33 27 66 49
Brunei	02 43 08 01
Bulgaria	02 73 94 88
Cambodia	12 80 05 00
Canada	1 88 87 77 02 11
Chile	8 00 53 06 62
China	40 08 88 56 56
Colombia	01 80 07 00 66 24
Croatia	0 16 10 53 81
Czech Republic	2 33 03 27 27
Denmark	35 25 65 29
Dubai	0 43 96 64 33
Ecuador	18 00 10 10 00
Egypt	0 23 33 41 11
Estonia	56 64 54 00
Finland	09 22 94 37 00
France	01 56 38 42 00
Germany	0 18 05 33 32 26
Greece	80 11 11 11 16
Hong Kong	28 61 11 18
Hungary	06 14 71 24 44
Iceland	5 20 30 00
India	22 24 98 70 00 Extn: 70 40
Indonesia	0 21 46 82 60 81
Ireland	18 50 77 72 77
Italy	02 45 27 90 36

Ivory Coast..05 02 02 59

Jordan...0 64 39 86 42

Kenya...2 72 37 17

Kuwait 2 45 41 78

Latvia 7 50 11 18

Lebanon 01 44 30 43

Libya..02 13 50 28 82

Lithuania 8 70 07 07 00

Luxembourg.................................40 66 61 56 40

Macedonia..0 23 13 18 48

Malaysia ....+ 6 03 77 12 43 04

Malta ....+ 35 32 14 94 06 32

Mauritius 2 11 62 13

Mexico...................................01 80 07 11 00 03

Morocco...22 66 92 09

Netherlands..............................0 90 03 33 31 00

New Zealand 08 00 27 43 63

Nigeria...0 14 50 05 00

Norway...22 57 77 46

Oman 79 10 12

Pakistan 02 15 66 22 00

Paraguay..8 00 10 20 04

Peru 0 80 05 24 00

Philippines 0 27 57 11 18

Poland 08 01 30 00 30

Portugal..8 08 20 15 21

Qatar 04 32 20 10

Romania..02 12 09 99 66

Russia 8 80 02 00 10 10

Saudi Arabia................................... 0 22 26 00 43

Serbia... 01 13 07 00 80

Singapore 62 27 11 18

Slovak Republic 02 59 68 22 66

Slovenia 0 14 74 63 36

South Africa 08 60 10 11 57

Spain... 9 02 11 50 61

Sweden 08 57 92 90 49

Switzerland 08 48 84 08 45

Taiwan 02 23 96 10 06

Thailand 0 29 53 50 00

Tunisia... 71 86 19 02

Turkey 0 21 64 59 98 98

Ukraine 8 80 05 01 00 00

United Arab Emirates.................... 0 43 66 03 86

United Kingdom......................... 0 87 05 33 44 11

Uruguay... 00 04 05 46 62

USA 1 88 87 77 02 11

Venezuela 0 80 01 00 56 66

Vietnam... 84 89 20 24 64

Zimbabwe 04 36 94 24

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