Panasonic

Operating Instructions

MX6

E B - M X 6
Mobile Phone

G S M.
™

Before operating this handset, please read these instructions completely.
Charge battery before operation.

MX6 Operating Instructions

Contents

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Contents

Introduction

Thank you for purchasing this Panasonic digital cellular phone. This phone is designed to operate on GSM networks – GSM900, GSM1800 and GSM1900. It also supports GPRS for packet data connections. Please ensure the battery is fully charged before use. We, Panasonic Mobile Communications Development of Europe Ltd., declare that the EB-MX6 conforms with the essential and other relevant requirements of the directive 1999/5/EC. A declaration of conformity to this effect can be found at
http://panasonic.co.jp/pmc/products/en/support/index.html

Safety considerations

The following information should be read and understood as it provides details, which will enable you to operate your phone in a manner which is both safe to you and your environment, and conforms to legal requirements regarding the use of cellular phones.

Power

This equipment should only be charged with approved charging equipment to ensure optimum performance and avoid damage to your phone. Other usage will invalidate any approval given to this apparatus and may be dangerous. Ensure the voltage rating of the Travel charger is compatible with the area of use when travelling abroad. A Travel charger (EB-CA001xx*) is supplied with the Main Kit.
Note* xx identifies the charger region, e.g. CN, EU, UK, AU, US.

Battery

Use of another battery pack than that recommended by the manufacturer may result in a safety hazard.
If you use a feature which keeps the key backlight on continuously for a long time, such as a game or browser, battery life will become extremely short. To maintain longer battery life, set the Key backlight to off. (See "Key backlight" on page 93.)
Do not use this phone without the battery cover attached.

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Introduction

Disposing of the Battery

Do not incinerate or dispose of the battery as ordinary rubbish. The battery must be disposed of in accordance with local regulations and may be recycled.

Aircraft

Switch off your cellular phone when in an aircraft. Ensure that the settings of the alarm functions will not contravene regulations whereby it may automatically power on when in an aircraft or medical facility etc. The use of cellular phones in an aircraft may be dangerous to the operation of the aircraft, disrupt the cellular network and may be illegal. Failure to observe this instruction may lead to the suspension or denial of cellular phone services to the offender, or legal action or both.

Do Not Use

It is advised not to use the equipment at a refuelling point. Users are reminded to observe restrictions on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress. Never expose the battery to extreme temperatures (in excess of 60°C).

Driving

It is imperative that the driver exercises proper control of the vehicle at all times. Do not hold a phone while you are driving; find a safe place to stop first. Do not speak into a handsfree microphone if it will take your mind off the road. Always acquaint yourself thoroughly with restrictions concerning the use of cellular phones within the area where you are driving and observe them at all times.

Electronic Devices

Care must be taken when using the phone in close proximity to personal medical devices, such as pacemakers and hearing aids.

Heating Equipment

When your handset, the accompanying battery or charging accessories are wet, do not put those in any type of heating equipment, such as a microwave oven, a high pressure container, or a drier or similar. It may cause the battery, handset and/or charging equipment to leak, heat up, expand, explode and/or catch fire. Moreover, the product or accessories may emit smoke and their electrical circuits may become damaged and cause the products to malfunction. Panasonic is not responsible for any and all damages, whether direct or indirect, howsoever caused by any misuse.

Backup Copies & Security

It is recommended that you create a copy or backup, as appropriate, of any important information and data which you store in your phone's memory. In order to avoid accidental loss of data, please follow all instructions relating to the care and maintenance of your phone and its battery.

Your phone has the capability of storing and communicating personal information. It is recommended that you take care to ensure that any personal or financial information is stored separately from your phone. You should use security features, such as the SIM lock to protect information held in your phone. Panasonic accepts no liability for any and all losses howsoever arising from any loss of data, including but not limited to direct and indirect losses (to include, but not limited to consequential loss, anticipated savings, loss of revenue).

Downloading

Your phone has the capability of downloading and storing information and data from external sources. It is your responsibility to ensure that in doing this you are not infringing any copyright laws or other applicable legislation. Panasonic accepts no liability for any and all losses howsoever arising from any loss of data or any such infringement of copyright or intellectual property rights, including but not limited to direct and

indirect losses (to include, but not limited to consequential loss, anticipated savings, loss or revenues).

Efficient Use

⚠ For most efficient use, hold the phone as you would any normal phone. To avoid deterioration of signal quality or antenna performance, do not touch or "cup" the antenna area while the phone is switched on. Unauthorised modifications or attachments may damage the phone and violate applicable regulations. The use of an unapproved modification or attachment may result in the invalidation of your guarantee – this does not affect your statutory rights.

Camera

📷 You are advised to take appropriate care over the use of the internal camera. It is your responsibility to ensure that you have permission to take photographs of people and objects and that you do not infringe any personal or third party rights when using the camera. You must comply with any applicable international or national law or other special restrictions governing camera use in specific applications and environments. This includes not using the camera in places where the use of photographic and video equipment may be prohibited. Panasonic accepts no liability for any and all losses howsoever arising from any infringement of copyright or intellectual property rights, including but not limited to direct and indirect losses. Do not leave the camera facing direct sunlight, as this may impair its performance.

Other important information

The colour liquid crystal display (LCD) uses high-precision production technology, and in certain circumstances pixels may appear brighter or darker. This is due to characteristics of the LCD and is not a manufacturing defect.

This phone is designed, manufactured and tested to ensure that it complies with the specifications covering RF exposure guidelines applicable at the time of manufacture, in accordance with EU, USA FCC and Australian ACA regulations.

This phone should only be used with Panasonic approved accessories to ensure optimum performance and avoid damage to your phone. Panasonic is not responsible for damage caused by using non-Panasonic approved accessories.

This phone must be used in compliance with any applicable international or national law or any special restrictions governing its use in specified applications and environments. This includes but is not limited to use in hospitals, aircraft, whilst driving and any other restricted uses.

Some of the contents described in this manual are subject to change without notice.

Care and maintenance

Pressing any of the keys may produce a loud tone. Avoid holding the phone close to the ear while pressing the keys.

Extreme temperatures may have a temporary effect on the operation of your phone. This is normal and does not indicate a fault. The display quality may deteriorate if the phone is used in environments over 40°C for a long time.

Do not modify or disassemble the equipment. There are no user serviceable parts inside.

Do not subject the equipment to excessive vibration or shocks. Do not drop the battery.

Avoid contact with liquids or moisture. If the equipment becomes wet, immediately remove the battery and charger. Keep the phone dry.

Do not leave the equipment in direct sunlight or a humid, dusty or hot area. Never throw a battery into a fire. It may explode.

Keep metallic items that may accidentally touch the terminals away from the equipment/battery.
Batteries can cause property damage, injury, or burns if terminals are touched with a conductive material (i.e. metal jewellery, keys, etc.).

Always charge the battery in a well ventilated area, not in direct sunlight, between +5°C and +35°C. It is not possible to recharge the battery if it is outside this temperature range.

When connecting the phone to an external source, read the operating instructions of the equipment for the correct connection and safety precautions. Ensure the phone is compatible with the product it is being connected to.

When disposing of any packing materials or old equipment, check with your local authorities for information on recycling.

About this manual

Symbols used in this manual

The following symbols are used in this manual to represent the limited availability of the function or service.

= Depending on your SIM card.

= Depending on network availability.

= Depending on your network operator. The service may only be available on a subscription basis.

Graphics

The graphic elements in this manual are for illustrative purposes and may differ from the actual phone and/or graphic elements displayed on the phone. Panasonic reserves the right to change the information in this manual without prior notice.

Keys

Keys in this manual may differ from the actual keys on your phone. Refer to page 12 for the icons that represent the keys in this manual.

How to read this manual

<Example> Fixed dial in Settings menu on page 112.

This function is SIM card dependent. For other symbols, refer to page 7.

Fixed dial ⬥

When Fixed dial is enabled, only the phone numbers stored in SIM Contacts can be dialled. Any manually dialled phone numbers must match the phone numbers in SIM Contacts.

To store, edit or delete phone numbers in SIM Contacts, you need to enter your PIN2 code.

➲ Main menu > **Settings** > **Security** > **Fixed dial**
   1. Select **Enable** or **Disable**
   2. Enter the PIN2 code (4-8 digits) → [◉]/[▢] (Ok)

➲ Menu navigation

Before following the steps, you need to enter Main menu, then move through the sub menus, described next to the ➲ icon. ">" means "scroll through the menu and select".

In the example:

From Main menu, press Navigation key (up/down/left/right) to scroll to **Settings** and press Navigation key (centre). Press Navigation key (up/down) to scroll to **Security** and press Navigation key (centre) or Left Soft key (Select)[1]. Press Navigation key (up/down) to scroll to **Fixed dial** and press Navigation key (centre) or Left Soft key (Select)[1]. You can also select **Fixed dial** by pressing [**3**].

Now you can continue onto the step 1:

1. Press Navigation key (up/down) to scroll to **Enable** or **Disable**, then press Navigation key (centre) or Left Soft key (Select)[1]
2. Enter the PIN2 code (4-8 digits), then press Navigation key (centre) or Left Soft key (Ok)[1]

[1] The word is shown in the lower left hand corner of the display, indicating a command that the key gives to the phone when you press it.

Note: There are several ways to select items from menu lists. See "Menu selection method" on page 26.

About Your Phone

Phone overview

Earpiece

Display

One Push Auto Open button

Navigation key

Left Soft key

Right Soft key

Call key

Power/End key

Asterisk key

Silent Mode key

Microphone

Charging Indicator

Speaker

Multi Function key

Infrared Port

Side-up key

Side-down key

Camera Lens

Macro Mode Switch

Personal Handsfree Connector/ Charging Connector/ Data Transmission Connector

Self-portrait Mirror

Indicator/ Illumination Light

Panasonic

Note: Do not remove the front panel from the phone.

Key functions

Key name	Function	Key icon*1
Navigation key	Press outside edges to scroll up [▲], down [▼], left [◄] or right [►] to move through menus and text. Press centre [●] to select option, perform Alert mute, or take a picture or record a video clip in Camera mode.	[▲] [▼] [◄] [►] [●]
Left Soft key	Perform the functions indicated by the text shown in the lower left-hand corner of the display.	[▭]
Right Soft key	Perform the functions indicated by the text shown in the lower right-hand corner of the display.	[▭]
Call key	Make or answer a call.	[↘]
Power/End key	Press and hold to switch the phone on/off. End or reject a call. Return to standby mode.	[⏻✕]
Numeric keys	Enter numbers and characters. Press and hold [2]-[9] for Speed dialling. Press and hold [0] to enter the international prefix (+).	[0] to [9]
Asterisk key	Enter "✱". In text entry mode, press to change the letter case, or press and hold to change the input method.	[✱]
Silent Mode key	Enter "#". Press and hold to switch the Silent mode on/off. While entering a phone number, press and hold to enter a pause (p).	[#]
Side-up key*2	Scroll page up. Increase volume or zoom level. Perform Alert mute.	[⬆]
Side-down key*2	Scroll page down. Decrease volume or zoom level. Perform Alert mute.	[⬇]

Key name	Function	Key icon*1
Multi Function key*2	Take a picture or record a video clip in Camera mode. Perform Alert mute.	[☐]

*1 The key icons given in the table represent the actual keys on the phone.
*2 Located on the right side of the phone.

Quick keys

You can easily access features instead of navigating through the menus.

	Key	Function
In standby mode		
Short press	[◉]	Open Main menu/Keyguard off
	[▭]	Open Messages menu
	[▭]	Open Browser
	[▲]/[▼]/[◀]/[▶]	Open the shortcut menu
	[↘]	Open Call log
	[☐]/[☐]	Increase/decrease the volume
Long press	[◉]	Keyguard on
	[1]	Dial your voice mailbox
	[2]-[9]	Speed dial
	[#]	Silent mode on/off
	[☐]	Switch to Picture mode

	Key	Function
During a call		
Short press	[▲]/[▶]/[🔼]	Increase the volume
	[▼]/[◀]/[🔽]	Decrease the volume
	[🔲]	Start/stop sound recording
	[↘]	Switch between hold and unhold on one call or switch between one active and one held call
In Menu list		
Short press	[1]-[9]	Select Menu 1-9
	[✱]	Select Menu ✱
	[0]	Select Menu 0
	[#]	Select Menu #

Display

Standby display

Signal strength icon

Time — 10:00

Date — 06/12/05

Battery charge level icon

Wallpaper —

Left Soft key selection area —

Right Soft key selection area
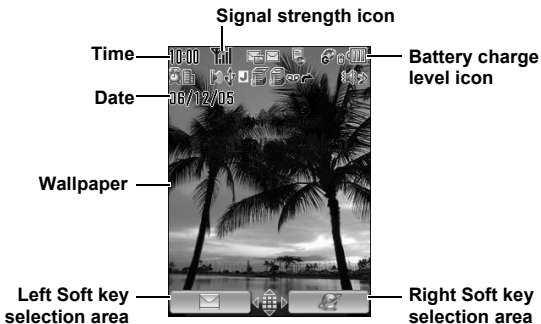
Note: The current operator name is shown on standby display. You can change the position of the operator name. See "Operator name" on page 97.

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Status icons

The status icons are displayed or animated according to the currently activated functions.

Icon	Meaning
Y.ll	Signal strength; the more bars visible, the stronger the signal
Δ	In roaming area
▯▯▯	Battery charge level
▯▯ ▯ ▯▯ ▯▯▯	Battery is charging
Y.ll	GPRS is available
⌇	Silent profile is active
▤	Meeting profile is active
▲	Outdoor profile is active
▣	Car profile is active
▤	SMS message storage area is full
▤	MMS message storage area is full
J	Java^TM application is suspended
✉	Unread SMS message
✉▪	Unread MMS message
▤	Unread WAP Push message
↰	Call diverts is on
▷)	Infrared is active

Icon	Meaning
🜄	USB connection is available
∞	New voicemail received
🔇	All tones are off
📳	Vibration alert is on
⏰	Alarm is set
🐍	Non-secure CSD connection
🐍🔒	Secure CSD connection
⌬	Non-secure GPRS connection
⌬🔒	Secure GPRS connection
🏭	Keyguard is on

DRM

Your phone has DRM (Digital Right Management) that is used to control actions such as sending downloaded ringtones, graphics and sound clips to other people. Files downloaded and indicated by the icon (≡) can be used with restriction enforced by suppliers. The restriction includes use of such files for a limited period of time only or specified number of times.

To check the status of your rights, e.g. expiration date or number of the time it can be used, see **Details** setting on page 127, 131 and 138. For further information, contact your service provider.

Indicator/Illumination Light

The Indicator/Illumination Light flashes or beams when the events in the table below occur.

To specify the illumination colours for the events, see "Illuminations" on page 92.

Events	Description
When you are receiving a call/missed calls	Flash or beam in the selected colour. To set a different illumination colour for respective contacts, see "Storing a contact in your phone" on page 44.
When you receive an SMS/MMS message	
When you receive a WAP Push message	Flash or beam in the selected colour.
When you are having a conversation	
When the flip is closed	
When the battery is charging	Flash in the specified colour.
When data is being transferred	
Schedule notification	Beam in the specified colour. See "Creating Calendar events" on page 121 or "Setting the alarm" on page 115.
Alarm	

Note: If the Indicator/Illumination Light is set to on for battery charging and the phone is switched on, the Indicator/Illumination Light illuminates during charging. If the phone is switched off, the Indicator/Illumination Light will not illuminate.

Getting Started

Installing the SIM card and the battery

The SIM (Subscriber Identity Module) card and the battery must be installed before using your phone.

Before handling the SIM card and the battery, ensure that the phone is switched off and the charger is disconnected from the phone.

Inserting/removing the SIM card

See "Inserting/removing the battery" on page 20 to remove the battery cover and the battery.

Inserting the SIM card

Position the SIM card as shown, with gold contacts facing down and the notched corner turned to the right. Carefully slide the SIM card into the SIM card pocket until the card is all the way seated.
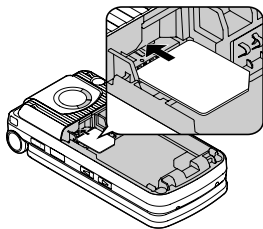
Removing the SIM card

Place a finger on the bottom edge of the SIM card and gently slide it out.
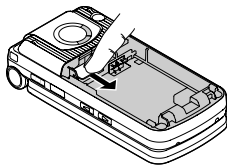
Inserting/removing the battery

Inserting the battery

1. Insert the small tabs at the top of the battery into the notch at the top of the battery compartment. Ensure the 3 gold contacts align with the 3 gold pins in the phone.

2. Replace the cover on the phone. Make sure the cover clicks into place.
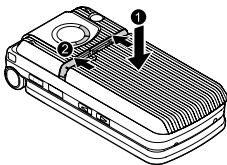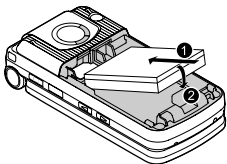
Removing the battery

1. Place your finger on the arrow at the top of the cover. Slide the cover slightly toward the bottom of the phone, then lift the cover off the phone.

2. Place your finger on the tab at the base of the battery. Lift the battery off the compartment.
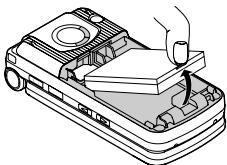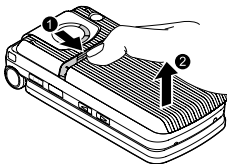
Charging the battery

Your phone can be charged either when it is switched on or off. You can use your phone even while it is charging.

Ensure that the battery is inserted into the phone before charging.

1. Open and hold the connector cover.

Connect the charger to Charging Connector, then connect the charger to the mains power supply.
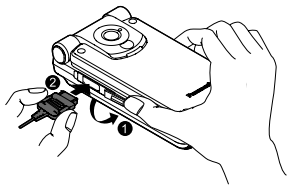
2. When charging is complete, disconnect the charger from the outlet before removing the plug from the phone. Then hold the connector cover and press and hold the release buttons on both sides of the connector's end and pull gently to disconnect the charger from the phone.
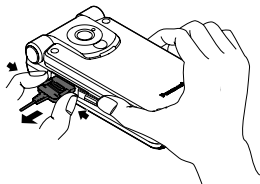
After you have removed the Charging Connector, replace the connector cover over the socket.

Note: DO NOT force the connector as this may damage the phone and/or the charger.

If the battery has been deeply discharged, it may take several minutes before the Battery charge level indicator is displayed.

Battery charge level indicator

While charging	Charging complete
🔋 🔋 🔋 🔋	🔋

Charging Indicator goes out when charging is completed.

Low battery warning

When the battery power is low, a "**Battery low**" message is displayed and a warning tone sounds. The phone automatically switches off after the tone. Fully recharge the battery. If you receive the low battery warning during a conversation, charge your phone to continue with the conversation.

Opening/closing the phone

You can open your phone by pressing One Push Auto Open button.

One Push Auto Open button
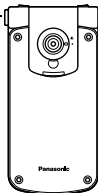
Flip setting

When **Active flip** setting is set to **On** (see page 102), you can answer a call by opening the phone and end a call by closing the phone.

When **One push SMS** setting is set to **On** (see page 67), new SMS messages can be displayed by opening the flip.

Switching the phone on/off

1. Press and hold [⚪✕] for several seconds to switch the phone on

   A greeting may be displayed and the phone enters standby mode.

2. Press and hold [⚪✕] for several seconds to switch the phone off

---

Note: If your SIM card is PIN protected, your PIN code will be requested. Enter the PIN code and [⚫]/[▢]] (Ok). See "Security" on page 111.

DO NOT switch off the phone while resetting/downloading/deleting a file or running/terminating a Java™ application.

Menu Navigation

Main menu structure

*1

*2

Displaying the menu

The menu system allows you to access functions which do not have their own dedicated buttons on the keypad.

In standby mode:

1. [●]

   Main menu appears with 9 menu options. (See "Main menu structure" on page 24.)

2. [▲ / ▼ / ◀ / ▶] to scroll to the required menu → [●] / [▢] (Select)

To go back to Main menu:

1. [▢] (Back) repeatedly until Main menu screen appears

Shortcut: To jump to and open one of the 9 application items, simply press the Numeric key corresponding to the required item's location. The numbering system is:

1	2	3
4	5	6
7	8	9

Navigating the applications

Current settings

When you highlight an item in the menu list, the current setting of the item is displayed in the bar just above the menu list.

<Example>

In the case shown to the right, the current setting of **Warning tone** is "**Off**".
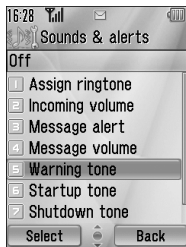
Menu selection method

There are several ways to select items: by using Navigation key or Left Soft key, or by entering the required number, $\times$ or # given to the item.

<Example>

To select **Warning tone** in the display shown above:

- [▲/▼] to scroll to **Warning tone** → [●]
- [▲/▼] to scroll to **Warning tone** → [▭] (Select)
- Press the menu number [5]

Keys corresponding to the menu numbers

- [1]-[9]: Menu 1-9
- [$\times$]: Menu $\times$
- [0]: Menu 0
- [#]: Menu #

Note: Direct access keys to the menus with no menu numbers/symbols are not available.

Basic Operations

> **Note:** There are several ways to select items from menu lists. See "Menu selection method" on page 26.

Making calls

To make a call, your phone must be within the range of a network with adequate signal strength.

Standard dialling

In standby mode:

1. Enter the area code and phone number → [↘]/[●]
2. When the other party answers, talk into Microphone
3. [⌀✕]/[▱] (End) to hang up
    The duration of the call is displayed.

> **Note:** To erase a digit: [▱] (Clear)
>
> To increase the earpiece volume: [▲]/[▶]/[⬙]
>
> To decrease the earpiece volume: [▼]/[◀]/[⬙]
>
> If **Active flip** is set to **On** (see page 102), you can answer a call by opening the phone and end a call by closing the phone.

Auto redial

Your phone will automatically redial the number up to 10 times under certain conditions, such as no answer, destination number is busy, network busy, or some connection errors.

When your call is rejected:

1. "**Auto redial?**" → [▱] (Yes) to start Auto redial
2. To stop Auto redial while redialling, [⌀✕]/[▱] (Cancel)

Contacts dialling

You can make calls using the numbers in Contacts.

➲ Main menu > **Contacts** > **Contacts list**

1. [▲ / ▼] to scroll to the required contact
OR

Enter letters to find a contact beginning
with the specific letters

2. [↘]

3. If the card has several phone numbers
stored, [▲ / ▼] to scroll to the required
number → [●] / [▭] (Call)

Recent call dialling

You can make calls using the numbers in Call log.

In standby mode:

1. [↘]

2. [◄ / ►] to switch to **Dialled numbers**, **Answered calls** or
Missed calls screen

3. [▲ / ▼] to scroll to the required number → [↘]

International dialling

The international prefix (+) and the destination country/region code
should be entered, followed by the area code and phone number.

1. Press and hold [0] until "+" is displayed

2. Enter the country/region code

3. Enter the area code and phone number → [↘]

Note: Many countries/regions include an initial "0" in the area code. This
should, in most cases, be omitted when dialling international numbers. For
further help, contact your service provider.

Emergency call

To make an emergency call, your phone must be within the range of a network.

When SIM card is inserted:

1. Enter the local emergency number → [↘]/[●]

Note: Most countries support the international emergency number 112. If you find the number does not work on your phone, contact your service provider.

When SIM card is not inserted:

1. [▭] (Options) → Select **SOS**

Answering calls

When there is an incoming call, the phone rings and/or vibrates (depending on your phone setting). (See "Sounds & alerts" on page 98.)

When the phone is ringing and/or vibrating:

1. [↘]/[▭] (Accept)

Note: If **Any key answer** is set to **On** (see page 101), you can answer a call by pressing any key except [⌀↗], [●], [▭] (Cancel), [⎕], [⎕] and [⎕].

If **Active flip** is set to **On** (see page 102), you can answer a call by opening the phone and end a call by closing the phone.

Rejecting calls

When the phone is ringing and/or vibrating:

1. [⌀↗]/[▭] (Cancel)

Missed call notification

If you cannot answer a call, **Missed call** notification appears on the standby screen.

To view the Missed call list:

1. [⬤]/[▭] (View)
2. To call back, [▲/▼] to scroll to the required log → [↘]

Alert mute

You can turn the ringing tone and/or vibration off before answering a call.

When the phone is ringing and/or vibrating:

1. When the phone is closed: [▯]/[▯]/[▯]
   When the phone is open: [⬤]
2. [↘] to answer the call

Answering a second call

When on an active call, you may receive another call.
To enable this service, Call waiting must be active. (See "Call waiting" on page 101.)

If you hear an alert tone during a call:

1. [↘]/[▭] (Accept)
   The first call is placed on hold.
2. [↘] to switch between the two calls if required

To reject another call:

1. [▭] (End)

To end the active call and answer the incoming call:

1. [₀✕] to end the active call
2. [↘] to answer the call

Auto answer

When you use the optional Personal Handsfree earpiece, you can answer a call automatically. To enable this service, Auto answer must be on. (See "Auto answer" on page 102.)

Silent mode

To use your phone in a quiet situation, you can activate the **Silent** mode. You can personalise the **Silent** mode setting. (See "Profiles" on page 90.)

In standby mode:

  1. Press and hold [#] to activate/deactivate the **Silent** mode

Voicemail

Voicemail is a network service which allows callers, who could not reach you, to leave voice messages. You may need to subscribe to this service through your service provider. For further details, see "Voicemail" on page 66.

Retrieving stored voice messages

When a new voice message is stored, an alert sounds and (⚏) appears on the display and you receive an SMS notification.

  1. Press and hold [1] to call your voice mailbox

   If the number is not valid, contact your service provider.

  2. Follow the recorded instructions

  3. [☍] when finished

In-call operations

In-call options (while connected to an active call)

When on a call, the following options are available.

1. [▭] (Options) → Select the required option

Hold call/Resume	Put or resume a call on hold.
From contacts	Access the Contacts list.
Create SMS	Create a new SMS message.
Inbox (SMS)	Access Inbox (SMS).
Calendar	Access Calendar.
Speaker mode/ Handheld mode	Switch to Speaker or Handheld talking mode.
Record	Record the conversation. The sound clip is saved to My Media.

Hold

You can put a call on hold.
During a call:

1. [↘] to switch between **Hold call** and **Resume**
   OR

   [▭] (Options) → Select **Hold call** or **Resume**

Handsfree talking

You can have a conversation without holding the phone to your ear.

Swapping between Speaker and Handheld mode

1. [▭] (Options) → Select **Speaker mode** or **Handheld mode**

Volume control

You can adjust the volume of the phone earpiece, speaker or
headset if attached.

To increase the volume:

1. [▲]/[▶]/[🔔]

To decrease the volume:

1. [▼]/[◀]/[🔔]

DTMF

DTMF (Dual Tone Multi Frequency) can be sent during a
conversation. These are often used to access voicemail, paging and
computerised home banking. For example, you may need to enter a
number to remotely access voicemail messages. A phone number
may be stored in the Contacts card together with a DTMF sequence,
allowing the number to be dialled upon recall and the DTMF
sequence to be sent automatically.

To send DTMF during a call:

1. Enter digits [0]-[9], [✱] or [#]

Pause dial

Using pauses allows you to send DTMF automatically.

1. Enter the phone number
2. Press and hold [#] until a "**p**" is displayed
3. Enter the DTMF digits after the pause, e.g. enter the number to
   access voicemail messages
4. [📞]/[⚫]

   When the call is connected, the DTMF sequence is sent after 3 seconds.

Making a second call

You can make another call while on a call.

During a call:

1. Enter the second phone number or select a phone number from the Contacts list

   To access Contacts list, see "In-call operations" on page 32.

2. [↘]

   The first call is put on hold.

3. [↘] to switch between the two calls if required

Multiple calls operations

In-call options (while on multiple calls)

When on more than one call, the following options are available.

1. [▭] (Options) → Select the required option

Swap	Switch between one active and one held call.
Merge	Enable multi-party conversation when two calls are connected (one active, one on hold). See "Conference" on page 35.
From contacts	Access the Contacts list.
Create SMS	Create a new SMS message.
Inbox (SMS)	Access Inbox (SMS).
Calendar	Access Calendar.
Speaker mode/ Handheld mode	Switch to Speaker or Handheld talking mode.
Record	Record the conversation. The sound clip is saved to My Media.

Conference 📶

You can have a conversation with up to 5 different parties at the same time.

During a call (one active call and one call on hold):

1. [▭] (Options) → Select **Merge**

    The 2 calls are joined into a Conference call.

To add new participants:

2. Call the next person or answer an incoming call
3. [▭] (Options) → Select **Merge**

To end the Conference call:

4. [☎✕]

To split the caller from the Conference call and talk privately:

During a Conference call:

1. [▭] (Options) → Select **Conference call**
2. [▲/▼] to scroll to the required caller you wish to talk to
3. [▭] (Options) → Select **Split**

    The remaining callers can continue with the Conference call.

4. To end the private call and rejoin the Conference call, [▭] (Options) → Select **Merge**

Text entry

Input method

Your phone provides three text input methods to enter characters.

T9®	A predictive text entry system. You can enter a word with fewer key presses.
Multi-tap	A traditional way to type in a letter. Press a key several times until the required letter appears.
Numeric	You can enter numbers (0-9), ✱, # and +.

An icon on the upper left of the screen shows the current input method and letter case.

Input method	Icon	Letter case
T9®	T9↑	Automatic
	T9↟	Upper case
	T9	Lower case
Multi-tap	Abc	Automatic
	ABC	Upper case
	abc	Lower case
Numeric	123	-

Changing the input method

Press and hold [✱] to cycle through the input methods as follows.
T9 (T9↑) → Multi-tap (Abc) → Numeric (123)

Changing the letter case

Press [✱] repeatedly until the icon for the required letter case mode appears.

Auto capital change

When the letter case is set to Automatic (T9↑ and Abc), the first character is entered as upper case and subsequent letters as lower case.
When one of the following characters [. (Period) ! ?] is entered, the next character is entered as upper case.

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T9® text input method

The T9® text input method enables you to enter text faster and easier. You only need to press a key once for any letter you require on that key. The program searches its built-in dictionary to predict the word that most closely matches your key presses.

1. In text entry screen, press a key once for any letter you require on that key

2. Continue pressing other keys until the end of a word is reached

3. Select the required word

   OR

   If the required word is not in the dictionary, "?" is displayed after the word.

   [▢] (Spell) → Enter the correct word → [◉]/[▢] (Add)

   The word is added to the internal dictionary automatically.

For example, to enter "Hello!", press keys as follows.

Key	[4]	[3]	[5]	[5]	[6]	[1]	[▼] × 4
Display	I	He	Gel	Hell	Hello	Hello.	Hello!

My dictionary

Words that you enter in My dictionary are added to the internal dictionary so that they are suggested next time.

To add words to My dictionary:

1. In text entry screen, [▢] (Options) → Select **My dictionary**

2. Enter a word → [◉]/[▢] (Add)

Editing text

Inserting/deleting text

Move the cursor by pressing [▲ / ▼ / ◀ / ▶] to the position you want to insert or delete a letter. Press [▢] (Clear) to delete a character. Press and hold [▢] (Clear) to delete all the characters.

Copying/cutting/pasting text

1. [▢] (Options) → Select **Copy** or **Cut**
2. [▲ / ▼ / ◀ / ▶] to move to the text you wish to copy or cut
3. [◉] / [▢] (Start) → [▲ / ▼ / ◀ / ▶] to highlight the text →
    [◉] / [▢] (Stop)
4. [▲ / ▼ / ◀ / ▶] to move to a new required location
5. [▢] (Options) → Select **Paste**

Options

When entering text, the following options may be available by pressing [▢] (Options).

Use contacts*[1]	Access Contacts menu to use Contacts data.
Copy/Cut/Paste	See "Copying/cutting/pasting text" on page 39.
Add symbol	Show the Symbol list from which you can select any symbol available on your phone.
Input method	Select the input method.
T9 on/off*[1]	Turn **On** or **Off** the predictive dictionary.
Input language*[1]	Select a language you wish to write in.
My dictionary	Add words to the internal dictionary.
Exit	Exit the text edit mode.

*[1] Depends on each application.

Basic Operations

The following table shows characters available on your phone.
The characters vary depending on the **Input language** setting (see page 39).

Key	Input method (Input language: English)		Numeric (123)
	T9® (T9↑, T9↕ or T9)	Multi-tap (Abc, ABC or abc)	
[0]	Space		0
			(Press and hold) +
[1]	. , - ? ! ' @ : ; / 1	. , ? 1 ! " - : ; @ / * ( ) # + _ = [ ] { } ' ¡ ¿ & % \ ^ ~ | < > € ¢ £ $ ¥ ¤ § ` (Space) ↵ (Linefeed)	1
[2]	A B C 2 (a b c 2)	A B C 2 Γ Á Ä Å Â Ã Æ Ç (a b c 2 α β γ á ä å æ à â ã)	2
[3]	D E F 3 (d e f 3)	D E F 3 Δ É Ê (d e f 3 δ ε ζ é è ê)	3
[4]	G H I 4 (g h i 4)	G H I 4 Θ Í (g h i 4 η θ ι ì í)	4
[5]	J K L 5 (j k l 5)	J K L 5 Λ (j k l 5 κ λ μ)	5
[6]	M N O 6 (m n o 6)	M N O 6 Ξ Ñ Ó Ő Ö Ø Ô Õ (m n o 6 ν ξ ó ó ñ ö ø ò ô õ)	6
[7]	P Q R S 7 (p q r s 7)	P Q R S 7 Π Σ (p q r s 7 π ρ ς σ ß)	7
[8]	T U V 8 (t u v 8)	T U V 8 Φ Ú Ű Ü (t u v 8 τ υ φ ú ű ü ù)	8
[9]	W X Y Z 9 (w x y z 9)	W X Y Z 9 Ψ Ω (w x y z 9 χ ψ ω)	9
[✳]	Letter case change		✳
	(Press and hold) Input method change		
[#]	. , ? ! " - : ; @ / * ( ) # + _ = [ ] { } ' ¡ ¿ & % \ ^ ~ | < > € ¢ £ $ ¥ ¤ § ` (Space) ↵ (Linefeed)		#
	(Press and hold) Linefeed		

Shortcut: To enter numbers while in T9 or Multi-tap method, press and hold the required numeric key [0]-[9].

Contacts

Contacts menu structure

*1

Note: There are several ways to select items from menu lists. See "Menu selection method" .

Viewing the Contacts list

You can search for a phone number in the Contacts list. All the numbers stored in the phone and SIM card are displayed.

Searching for a contact

➲ Main menu > **Contacts** > **Contacts list**

1. [▲ / ▼] to scroll to the required contact
   OR
   Enter letters to find a contact beginning with the specific letters

2. To view the Contacts card, [⬤]

Options

In the Contacts list, the following options are available by pressing [▭] (Options).

View	View the selected Contacts card.
Call	Call the selected contact.
Create message	Create an **SMS** or **MMS**, and send it to the selected contact. See "Creating a new message" on page 54.
Edit	Edit the selected contact. See "Editing a Contacts card" on page 46.
Search	Search a contact by entering characters.
Add contact	Add a new contact. See "Adding contacts" on page 44.
Delete	Delete the selected contact.

Speed dial	Assign the selected contact to a Speed dial. See "Assigning speed dial keys" on page 48.
Copy to phone/SIM	Copy the selected contact to the phone or the SIM card.
Send via infrared	Send the selected contact to another device via infrared. See "Infrared" on page 104.

Making a call from Contacts

➲ Main menu > **Contacts** > **Contacts list**

1. [▲/▼] to scroll to the required contact
   OR

   Enter letters to find a contact beginning with the specific letters
2. [↘]
3. If the card has several phone numbers stored, [▲/▼] to scroll to the required number → [◉]/[▭] (Call)

Adding contacts

Storing a contact in your phone

In the phone, you can store detailed information for each contact.
The entries are retained even if you damage your SIM card.

➲ Main menu > **Contacts** > **Add contact** > **Phone**

1. [▲ / ▼] to scroll to the required field → [◉]
2. Enter information → [◉]
   To enter characters, see "Text entry" on page 36.
3. When entries are completed, [▢] (Save)

👤	**First name***1	Enter the first name.
👤	**Last name***1	Enter the last name.
📱	**Mobile number***1	
🏠	**Home number***1	Enter the phone numbers.
☎	**Work number***1	
📧	**Mobile email***1	
📧	**Personal email***1	Enter the e-mail addresses.
📧	**Work email***1	
🎂	**Birthday**	Enter the contact's birthday.
📮	**Postal address**	Enter **Additional info**, **No./street**, **Postal code**, **City**, **State** and **Country**.
📝	**Note**	Enter notes.

🕺	**Ringtone**	Select the required ringtone from **<Default>** or **My Media**. To download a ringtone, select **Download**[*2].
🕺	**Message alert**	Select the required Message alert from **<Default>** or **My Media**. To download a Message alert, select **Download**[*2].
🕺	**Illuminations**	Select **<Default>** or the required illumination colour.
🖼	**Picture**	Select the required picture.
🎴	**Group**	Select the required group.

[*1] The contact entry can be saved when at least one of the items is filled.

[*2] 🕴

Note: If a picture in My Media is attached to a Contacts card, it appears on the screen when the contact calls you. When the picture is set to be attached to a Contacts card, the phone saves the picture resized for the Contacts card if the picture is larger than the display size.

For downloading information, visit **http://box.panasonic.com/**

Storing a contact in your SIM card

You can store some information for each contact in your SIM card.

➲ Main menu > **Contacts** > **Add contact** > **SIM**

1. [▲ / ▼] to scroll to the required field → [◉]
2. Enter information → [◉]

👤	**Name**	Enter the name.
📱	**Tel number**	Enter the phone number.

3. [▭] (Save)

Note: The length of name and number, and the total amount of data are SIM dependent.

Storing a contact from Call log

See "Saving a phone number from Call log" on page 47.

Editing a Contacts card

➲ Main menu > **Contacts** > **Contacts list**

1. Highlight the required Contacts card (See "Searching for a contact" on page 42.)
2. [▭] (Options) → Select **Edit**
3. Edit the required entry → [▭] (Save)

Call log

Recently dialled phone numbers, answered calls and missed calls are stored in Call log. The numbers in the Call log list can be used to call, send a message or add to Contacts.

Viewing/Dialling from Call log

➲ Main menu > **Contacts** > **Call log**

1. [◀/▶] to move to **Dialled numbers**, **Answered calls** or **Missed calls**
2. [▲/▼] to scroll to the required log → [◉]
3. [◉] to call

Shortcut: You can directly view the **Dialled numbers** list by pressing [↘] in standby mode.

Saving a phone number from Call log

➲ Main menu > **Contacts** > **Call log**

1. [◀/▶] to move to **Dialled numbers**, **Answered calls** or **Missed calls**
2. [▲/▼] to scroll to the required phone number
3. [▭] (Options) → Select **Add to contacts**
4. Select **New** or **Add**
5. If **New** is selected: Enter other information
   If **Add** is selected: Highlight the required contact → [▭] (Select) → If there is no empty field, "**Would you like to replace?**" → [◉]/[▭] (Yes) → Select the number you want to replace in Phone Contacts
6. [▭] (Save)

Options

In each Call log list, the following options are available by pressing [▢] (Options).

Call	Call the selected number.
Create message	Create an **SMS** or **MMS** message to the selected number.
Add to contacts	Store the selected number to Contacts. See "Saving a phone number from Call log" on page 47.
Delete	Delete the selected number.
Delete all	Delete all the logs in the list.

Speed dial

You can quickly dial phone numbers by pressing keys 2-9.

Assigning speed dial keys

➲ Main menu > **Contacts** > **Speed Dial list**

1. [▲ / ▼] to scroll to the required key → [◉]
2. Enter phone number → [◉]

To assign a speed dial key to a contact:

➲ Main menu > **Contacts** > **Speed Dial list**

1. [▲ / ▼] to scroll to the required key → [▢] (LookUp)
2. Highlight the required contact → [▢] (Select)
3. If the card has several phone numbers stored, [▲ / ▼] to scroll to the required number → [◉] / [▢] (Select)

Using the speed dial keys

In standby mode:

1. Press and hold a speed dial key ([2]-[9]) → [▢] (Call)

Groups

You can categorise the Contacts list stored in your phone into 20 groups.

Viewing group members

➲ Main menu > **Contacts** > **View groups**

  1. Select the required group
     The contacts in the selected group are displayed.

Renaming a group

➲ Main menu > **Contacts** > **View groups**

  1. [▲/▼] to scroll to the required group → [⬜] (Rename)
  2. Enter a new group name → [◉]

Advanced

Synchronisation

You can synchronise your Contacts list with your network server. You can just send changes or send all your records to the network server. For further details, see "Synchronisation" on page 106.

To send only changes to the network server:

➲ Main menu > **Contacts** > **Advanced** > **Synchronisation** > **Modified contacts**

The phone confirms completion.

To send all your records to the network server:

➲ Main menu > **Contacts** > **Advanced** > **Synchronisation** > **All contacts**

The phone confirms completion.

My number

You can store your own numbers in the phone and SIM card.

Storing numbers in Mobile profile

➲ Main menu > **Contacts** > **Advanced** > **My number** > **Mobile profile**

1. [●]/[▭] (Create)
2. Repeat steps 1-3 in "Storing a contact in your phone" on page 44

Storing numbers in SIM profile

➲ Main menu > **Contacts** > **Advanced** > **My number** > **SIM profile**

1. When the profile is empty: [●]/[▭] (Create)
   When the profile has the stored number(s): [▭] (Options) → Select **Create**
2. Repeat steps 1-3 in "Storing a contact in your SIM card" on page 46

Options

When viewing My number, the following options are available by pressing [▭] (Options).

Edit	Edit the profile.
Create*1	Create a new profile.
Delete	Delete the profile.
Send via infrared	Send the profile via infrared.

*1 Available only for SIM profile.

Displaying the Contacts list sorted by last name/first name

You can choose to sort the Contacts list by contact's last name or first name.

➲ Main menu > **Contacts** > **Advanced** > **Display by**

1. Select **First name** or **Last name**

Memory status

You can see the amount of memory available in the Contacts list.

➲ Main menu > **Contacts** > **Advanced** > **Memory status**

Note: The amount of memory for SIM storage depends on your SIM card.

To decrease the amount of phone memory used, delete unwanted data or store data on your PC (see "CD-ROM" on page 146).

Copying contacts

You can copy all the contacts from SIM card to phone, or from phone to SIM card.

Copying all the contacts from SIM card to phone

➲ Main menu > **Contacts** > **Advanced** > **Copy all from SIM**

1. "**Copy?**" → [◉]/[▢] (Yes)

Copying all the contacts from phone to SIM card

➲ Main menu > **Contacts** > **Advanced** > **Copy all to SIM**

1. "**Only Name and Number fields can be copied. Continue?**" → [◉]/[▢] (Yes)

Deleting Phone Contacts

You can delete all the contacts stored in your phone.

➲ Main menu > **Contacts** > **Advanced** > **Delete all**

1. "**Delete all contacts in phone?**" → [⬜] (Yes)
2. "**Are you Sure?**" → [⬜] (Yes)

Service numbers ⊗ 🛧

If your SIM card includes SDN (Service Dialling Number), you can call a service number by selecting from the list.
SDN enables you to access special services provided by your network operator, such as customer support, emergency services, etc.

➲ Main menu > **Contacts** > **Service numbers**

1. [▲ / ▼] to scroll to the required item → [●] / [⬜] (Call)

Messages

Messages menu structure

*1

Note: There are several ways to select items from menu lists. See "Menu selection method" on page 26.

Creating a new message

Messaging types

SMS	Short Message Service allows you to send and receive short text messages on any network that has roaming agreement. (Dependent on the recipient's phone parameters.) With the Illumination feature, you can express special feelings in a message.
MMS	Multimedia Messaging Service allows you to send messages containing text, pictures, sound and video clips from your phone to other MMS-enabled phones or e-mail addresses. The recipient can play it as a slide show.

> **Note:** The message centre number for SMS should be preprogrammed on the SIM card. Changing this number (see **Message centre** setting on page 67) may cause failure of a text message.
>
> Your phone may have already been set with an MMS profile when purchased. To change the settings of the profile, see **Advanced** setting on page 68.
>
> Sending or editing of a forward locked picture/sound clip/video clip indicated by the icon (➡✗) is restricted.

Creating an SMS message

➲ Main menu > **Messages** > **Create new** > **SMS message**

1. Create text message → [●]

    See "Text entry" on page 36 for entering text.

2. To enter recipient's phone number directly: Enter number

    To select recipient's phone number from Contacts: [●] →
    Highlight the required contact → [▭] (Select) → If the card has
    several phone numbers stored, [▲/▼] to scroll to the required
    number → [●]/[▭] (Select)

3. [●] to send the message

Creating an Illumination message with emoticons

With the Illumination feature, you can express special feelings in a
message. The Indicator/Illumination Light responds to the
pictographs in an Illumination message and light in combinations of
colours and light patterns when you receive and view an Illumination
message.

➲ Main menu > **Messages** > **Create new** > **SMS message**

1. Create text message

2. [▭] (Options) → Select **Templates**

3. Select **Illumination templates**

4. Select the required emoticon

    See "Emoticon list" on page 56.

To preview the Illumination of the messages you create:
[▭] (Options) → Select **Preview illumination**

Note: Only recipients who have an Illumination message capable phone
can view messages with Illumination.

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Emoticon list

Emoticon	Indicator Colour	Light Pattern	Emoticon	Indicator Colour	Light Pattern
:-)	Colour 3	A	\^o^/	Colour 3	A
:-D			(^_^)		
>:-<		B	\(>o<)/		B
:-||			(>-<#)		
:*	Colour 6	A	^3^	Colour 6	A
0:-)			(o^-^o)		
:-P		C	(*~o~*)		
:'(	Colour 1	B	(;_;)	Colour 1	B
:-(		A	(T_T)		A
:-/	Colour 5		(?_?)	Colour 5	
:-S		B	(>_<)		B
:-[		C	(-_-;)		C
:->	Colour 2	A	(^w^)	Colour 2	A
8-)			^&^		
=:-)	Colour 4	B	(@_@)	Colour 4	B
:-0			(*o*)		
:()		C	p(^-^)p		A
:-I	Colour 7		(-_-)	Colour 7	C
I-(		A	(_ _)Zzz		A
;-)	Colour 8		(^_~)"	Colour 8	

- Pattern A: [Firefly] flickers slowly for about 4 seconds.
- Pattern B: [Flash] flickers fast for about 3 seconds.
- Pattern C: [Beam] lights for about 3 seconds.

Options

When creating a text message, the following options are available by pressing [▢] (Options).

Send	Send the text as an SMS message.
Send to many	Send the text to more than one recipients.
Preview illumination	Preview illumination message.
Templates	Select **Illumination templates** to create an illumination message or **User templates** to use the stored text templates.
Count message	The long message may be divided into several messages. You can check the concatenated message number.
Save	Save the message in Unsent folder.
Use contacts	Access Contacts menu to use Contacts data.
Copy/Cut/Paste	Copy, cut or paste the text.
Add symbol	Show the Symbol list from which you can select any symbol available on your phone.
Input method	Select the input method.
T9 on/off	Turn **On** or **Off** the predictive dictionary.
Input language	Select a language you wish to write in.
My dictionary	Add words to the internal dictionary.
Exit	Exit the text edit mode.

Creating an MMS message

⊃ Main menu > **Messages** > **Create new** > **MMS message**

1. Select **Add picture**, **Add text**, **Add sound** or **Add video**

2. If **Add text** is selected: Create text message → [●]

   See "Text entry" on page 36 for entering text.

   If **Add picture**/**Add sound**/**Add video** is selected: Select the required item stored to My Media → [▭] (Select)

   You can also download new files, take new pictures, record new sound or video clips for the MMS message.

3. To add more than one picture, text, sound or video clip, [▲/▼] to scroll to **Slides** → [●] → [●]/[▭] (Yes)

4. Repeat steps 1-3 if required

To send the message:

5. [▭] (Options) → Select **Send**

6. [▲/▼] to scroll to **Add subject** → [●]

7. Enter subject → [●]

8. [▲/▼] to scroll to **Add recipient** → [●]

9. Select **From contacts**, **Enter number** or **Enter email address**

10. If **From contacts** is selected: Highlight the required contact → [▭] (Select) → If the card has several numbers stored, [▲/▼] to scroll to the required number → [●]/[▭] (Select)

    If **Enter number**/**Enter email address** is selected: Enter number/email address → [●]

11. [▲/▼] to scroll to **Send** → [●]

Note: When you select **Add video** and record a new video clip in step 2, the recording time is fixed to **For MMS sending**.

You cannot attach the video clip together with the picture file or sound clip to one slide.

For downloading information, visit **http://box.panasonic.com/**

Slide options

When **Slides** is highlighted, the following options are available by pressing [☐] (Options).

Add new	Add a new slide.
Send	Send the MMS message after entering subject and recipient number or address.
Slide duration	Specify duration of the slide.
Remove slide	Remove the slide from the MMS message.
Preview slide	Preview the MMS message as a slide.

Receiving messages

Receiving SMS messages

When you receive a new SMS message, the message icon (✉) is displayed along with a tone, illumination, and/or vibration. The SMS notification also appears on the standby screen.

Reading SMS messages

When an SMS notification is displayed on the standby screen:

1. [◉] / [☐] (View)

   If there is more than one notification, [▲ / ▼] *to scroll to* **New SMS** *before step 1.*

   If there is one SMS message, the message is automatically displayed.

2. If there is more than one SMS message, [▲ / ▼] to scroll to the required message header in SMS Inbox → [◉]

3. When the message is displayed, [◉] to show the message details (sender's number, date, message centre's number) if required

Receiving MMS messages

When you receive a new MMS message, the message icon (▨) is displayed along with a tone, illumination, and/or vibration. The received MMS messages are stored in Inbox.

Reading MMS messages

To read the received MMS messages, see "Inbox" on page 60.

Note: If you do not want to receive MMS messages automatically, select **Never** in **Auto download** setting (see page 68). In this case, you will receive a message notification first, and then you will need to receive messages manually.

Inbox

Inbox stores received SMS and MMS messages.

➲ Main menu > **Messages** > **Inbox**

Numbers in brackets show the number of unread messages and the total number of messages in each inbox.

SMS Inbox

SMS message icons

| 📩 | Unread message | 📬 | Read message |

Reading SMS messages

➲ Main menu > **Messages** > **Inbox** > **SMS**

1. [▲ / ▼] to scroll to the required message header → [◉]
2. [◉] to show the message details (sender's number, date, message centre's number) if required

Options

When viewing the list of messages or the selected message, the following options are available by pressing [▭] (Options).

Reply	Create reply message in **SMS** or **MMS**.
Forward	Forward the selected message.
Call	Call the sender's number.
Add to contacts	Store the sender's number to Contacts.
Use detail[*1]	Use phone number, e-mail or web address in the selected message to call, create message, add to Contacts, etc.
Delete	Delete the selected message.
Delete all[*2]	Delete all the SMS messages.
View illumination[*1]	Check the illumination of the message.

[*1] Available only when viewing the selected message.
[*2] Available only when viewing the list of messages.

MMS Inbox

MMS message icons

	Unread message		MMS notification
	Read message		

Reading MMS messages

➲ Main menu > **Messages** > **Inbox** > **MMS**

1. $[\blacktriangle / \blacktriangledown]$ to scroll to the required message header → $[\bullet]$

Options in the message list

When viewing the list of messages, the following options are available by pressing $[\square]$ (Options).

Reply	Create reply message by **SMS** or **MMS**.
Reply to all	Create reply message to all recipients.
Forward	Forward the selected message.
Call	Call the sender's number.
Add to contacts	Store the sender's number or e-mail address to Contacts.
Delete	Delete the selected message.
Delete all	Delete all the MMS messages and notifications.
Protect/Unprotect	Protect or unprotect the selected message.
Details	Show details for the selected message.

Note: Sending or editing a forward locked file indicated by the icon (➡✗) is restricted.

Options while viewing messages

When viewing the message, the following options are available by
pressing [▢] (Options).

Reply	Create a reply message by **SMS** or **MMS**.
Reply to all	Create a reply message to all the recipients.
Play again	Play the selected message.
Message font size*1	Select the required font size.
Save picture	Save the attached picture to My Media.
Save sound	Save the attached sound clip to My Media.
Save video	Save the attached video clip to My Media.
Use detail	Use the phone number, e-mail or web address in the selected message to call, create message, add to Contacts, etc.
Attached files	Show the attached files.

*1 🀫

Options for notification

When the notification is highlighted, the following options are
available by pressing [▢] (Options).

Receive	Receive new messages.
Forward	Forward the message.
Reject	Delete the notification from the message list and the message from the server.
Call	Call the sender's number.
Delete all	Delete all the MMS messages and notifications.
Protect/Unprotect	Protect or unprotect the message.
Details	Show details for the selected message.

Archive

Archive stores SMS and MMS messages that are sent or waiting to be sent.

SMS	Sent	Store sent SMS messages.
	Unsent	Store undelivered and unfinished SMS messages.
MMS	Sent	Store sent MMS messages.
	Outbox	Store undelivered MMS messages.
	Drafts	Store unfinished MMS messages.

Viewing messages

➲ Main menu > **Messages** > **Archive** > **SMS** or **MMS**

1. Select the required folder
2. [▲ / ▼] to scroll to the required message → [●]

Options for SMS

In Sent and Unsent folders, the following options are available by pressing [▢] (Options).

Send	Send the selected message.
Call	Call the sender's number.
Use detail[*1]	Use phone number, e-mail or web address in the selected message to call, create message, add to Contacts, etc.
Delete	Delete the selected message.
Delete all[*2]	Delete all the SMS messages in the folder.
View illumination[*1]	Check the illumination of the message.

[*1] Available only when viewing the selected message.
[*2] Available only when viewing the list of messages.

Options for MMS

In Sent, Outbox and Drafts folders, the following options are available by pressing [□] (Options).

Edit	Edit the selected message.
Forward[1]	Forward the selected message.
Send[2]	Send the selected message.
Delete	Delete the selected message.
Delete all	Delete all the messages in the folder.
Protect/Unprotect	Protect or unprotect the selected message.
Details	Show details for the selected message.

[1] Available only in Sent folder.
[2] Available only in Outbox and Drafts folder.

Web mail 📶

Web mail is an innovative service that lets you stay up-to-date with all of your messages. You need to subscribe to this service. For further information, contact your service provider.

Connecting to internet mail

➲ Main menu > **Messages** > **Web mail**

Your phone is connected to the Internet via a WAP connection to retrieve e-mail messages.

1. Follow the screen contents

Chat

Chat lets you enjoy the fun of instant messaging wherever you are. It's the fun way to chat on-line. For further information, contact your service provider.

➲ Main menu > **Messages** > **Chat**

1. Follow the screen contents

Voicemail

Voicemail is a network service which allows callers, who could not reach you, to leave voice messages. You may need to subscribe to this service. For further information, contact your service provider.

Retrieving stored voice messages

When a new voice message is stored, an alert sounds and (ᴑᴑ) appears on the display, and you receive an SMS notification.
When an SMS notification is displayed on standby screen:

1. [◉]/[▭] (Call)

2. Follow the recorded instructions

OR

➲ Main menu > **Messages** > **Voicemail** > **Call Voicemail**

1. Follow the recorded instructions

Shortcut: You can also press and hold [**1**] in standby mode to call your voice mailbox.

Changing the voice mailbox number

➲ Main menu > **Messages** > **Voicemail** > **Set mailbox number**

1. Enter new voice mailbox number → [◉]/[▭] (Ok)

Messages settings

SMS settings

➲ Main menu > **Messages** > **Messages settings** > **SMS**

1. Select the required setting

Message lights	Decide whether or not you want the Indicator/Illumination Light to illuminate when receiving an illumination message.
Message lights view	Decide whether or not you want the Indicator/Illumination Light to illuminate when viewing an illumination message.
Message centre	Edit the message centre number.
Message type	Select the required message type.
Validity period	Set a time period for the message centre to attempt message delivery. Select **1 hour**, **12 hours**, **1 day**, **1 week**, **1 month**, **3 months** or **Maximum**.
Delivery report	Select **On** to receive delivery reports.
Store sent SMS	Select **On** to store sent messages to the Sent folder.
Message font size*1	Select the required font size.
Bearer type	Select the data bearer type.
One push SMS	Select **On** to display new SMS messages by opening the flip.

*1

MMS settings

➲ Main menu > **Messages** > **Messages settings** > **MMS**

1. Select the required setting

Reports	Select **Request read** (check if the other party has read the message), **Send read** (inform the other party that you have read the message when asked), **Request delivery** (check if the other party has received the message) or **Send delivery** (inform the other party that you have received the message when asked).
Priority	Select **Low**, **Normal** or **High** for the message priority level.
Validity period	Set a time period for the message centre to attempt message delivery. Select **1 day**, **7 days** or **Maximum**.
Auto download	Select **Always on** (messages are retrieved automatically after receiving message notifications), **On when home** (messages are retrieved automatically in your service area) or **Never** (messages are retrieved manually).
Player mode	Select **Auto** (display MMS slides, or playback video/sound clips automatically) or **Manual** (display MMS slides, or playback video/sound clips manually).
Message font size*[1]	Select the required font size.
Advanced	If required, edit the information on **Message server**, **WAP profiles**, **Fetch on server***[1] and **Anonymous reject***[1]. Select **Information** to view MMS software information.

*[1]

Memory status

You can see the amount of memory available for storing messages.

➲ Main menu > **Messages** > **Memory status** > **SMS** or **MMS**

Note: To decrease the amount of phone memory used, delete unwanted data or store data on your PC (see "CD-ROM" on page 146).

Camera

Camera menu structure

Note: There are several ways to select items from menu lists. See "Menu selection method" on page 26.

Picture

You can take a picture with the built-in camera, and send them via MMS or infrared, or use them as wallpaper. You can also attach a picture to a contact stored in your phone.

Picture preview screen

Icons on picture preview screen

Icon	Description
	Zoom level (1-25)
	Picture size (Extra large/Large/Medium/Small/Main display)
	Image quality (Super fine/Fine/Normal)
	Multi shot mode
	Self timer (5 or 10 seconds delay)
	Night mode
	Brightness level (-2, -1, ±0, +1, +2)

Camera

Taking a picture

➲ Main menu > **Camera** > **Picture**
1. The display acts as a viewfinder. Move the phone around to frame your subject
2. [◉]/[▯] to capture the image

Operations after taking a picture

To save the image to My Media: [▭] (Save)

To return to the preview screen without storing the image: [▭] (Delete)

To send the captured image via MMS: [◉] → See "Creating an MMS message" on page 58

Taking a self-portrait

You can take your self-portrait using Self-portrait Mirror.

➲ Main menu > **Camera** > **Picture**
1. Close the flip. Look at yourself in Self-portrait Mirror
2. [▯] on the side of the phone
3. Open the flip. The image appears on the display. For further operation, see "Operations after taking a picture" on page 72

Shortcut: To directly open the picture preview screen, press and hold [▯] in standby mode.

Caution: To avoid impairing camera performance, DO NOT leave the phone with the camera facing direct sunlight.

Note: To send a picture via infrared or use as wallpaper, save the image once, and then go to My Media. (See "Pictures" on page 126.)

If the camera is left in certain conditions including the preview screen and capture screen for 3 minutes, the phone automatically exits Picture mode. If left in the preview screen, but with the options menu displayed, the phone remains in this state.

If certain situations such as receiving calls occur during camera operation, the phone exits Camera mode. If a captured image is on the screen, it is saved to My Media.

Zoom

[▲]/[🔼] to zoom in one level
[▼]/[🔽] to zoom out one level
You can also press and hold the keys to quickly reach the required zoom level.

Note: Zoom function may not be available when the picture size is set to **Extra large 1280x1024**.

Adjusting the brightness level

The picture brightness indicator shows the current brightness level.
[▶] to increase the brightness level
[◀] to decrease the brightness level

Taking close-up pictures

You can take sharp pictures from a close distance by using Macro Mode. (Macro focus range: 10 cm)
Turn the Macro Mode switch anticlockwise to (♣) before taking close-up pictures.
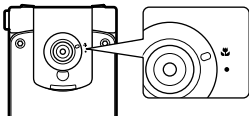
Viewing pictures

Pictures taken with the built-in camera are saved to My Media. To view the saved pictures, see "Viewing pictures" on page 126.

Picture settings

In the preview screen, the following options are available by pressing [▭] (Options).

Picture size	Select the required size from **Extra large 1280x1024**, **Large 640x480**, **Medium 320x240**, **Small 160x120** or **Main display 240x320**.
Image quality	Select the required quality from **Super fine**, **Fine** or **Normal**.
Night mode	Select **On** to take a picture in low light conditions.
Multi shot mode	15 continuous shots is available. See "Continuous shooting" on page 76.
Effect	Select the required colour from **Normal**, **Sepia**, **Monochrome** or **Negative**.
Self timer	Select the amount of time delay you require for shooting from **Off**, **5 seconds** or **10 seconds**.
Shutter sound	Select the required sound from **Pattern 1**-**5**.

Switch to video	Switch from Picture mode to Video mode.
Available space	Show the number of files which can be saved in the current picture size and image quality. You can see the number of files which can be saved in other image qualities by pressing [▣] (Quality), and in other picture sizes by pressing [▲ / ▼].
Set to default	Reset the current picture settings to default.
Help	Show direct key operation in the preview screen.

Direct key operation

You can change the picture settings by pressing one of the numeric keys which correspond to the functions as follows. Some functions are depicted by the icon. See "Icons on picture preview screen" on page 71.

[1]: Switch to video
[2]: Picture size
[3]: Image quality
[4]: Multi shot mode
[5]: Self timer
[6]: Night mode
[7]: Effect
[0]: Help

Adding a picture to Contacts card

If a picture is attached to a Contact card, it appears on the screen when the contact calls you.

To attach a picture to a contact, save the image once, and then go to Contacts. See "Adding contacts" on page 44.

Continuous shooting

In Multi shot mode, you can capture a succession of 15 images with just one press. When you set Multi shot mode on, the picture size is fixed to **Medium 320x240** and Night mode off.

➲ Main menu > **Camera** > **Picture**

1. [▢] (Options) → Select **Multi shot mode**
2. Select **On**
3. [◉]/[▯] to shoot

   The captured images are displayed as thumbnails.

Note: You cannot take pictures in Multi shot mode when the phone is closed. Once you close the phone, Multi shot mode is switched off.

To view the captured images:

[▲/▼/◀/▶] to scroll to the required thumbnail → [◉]
You can view the next image by pressing [▶] or [▼], and the previous image by pressing [◀] or [▲].

To save a captured image:

1. When the required thumbnail is highlighted or the required image is displayed on the screen, [▢] (Options) → Select **Save this one only**

   The picture is stored to My Media.

To save all the captured images:

1. In thumbnail screen or when one of the images is displayed on the screen, [▢] (Options) → Select **Save all pictures**

   OR

   When one of the images is displayed on the screen, [◉]

   All the pictures are stored to My Media.

Note: All the captured images are also saved by pressing [▯] on thumbnail screen or when one of the images is displayed on the screen.

Video

You can record video clips with the built-in camera, and send them via MMS or infrared.

Video preview screen

Icons on video preview screen

	Zoom level (1-25)
	Recording time (Extended video/For MMS sending)
	Self timer (5 or 10 seconds delay)
	Brightness level (-2, -1, ±0, +1, +2)

Recording a video clip

➲ Main menu > **Camera** > **Video**

1. Main display acts as a viewfinder. Move the phone around to frame your subject
2. [◉]/[] to start recording
3. Video recorder records until reaching the clip size limit or until you press [◉]/[]/[▭] (Stop)
4. Select the required action

Playback	Playback the recorded video clip.
Save to My Media	Save the recorded video clip to My Media.
Send as MMS	Attach the recorded video clip to an MMS message. See "Creating an MMS message" on page 58.

Caution: To avoid impairing camera performance, DO NOT leave the phone with the camera facing direct sunlight.

Note: To send a video clip via infrared, save the video clip once, and then go to My Media. (See "Videos" on page 133.)

If the video is left in the preview screen or a recorded video clip is displayed for 3 minutes, the phone automatically exits Video mode. If left in preview screen, but with the options menu displayed, the phone remains in this state.

If certain situations such as receiving calls occur during camera operation, the phone exits Camera mode. The recording ends automatically, and the already recorded video clip is saved to My Media.

Zoom

[▲]/[🔼] to zoom in one level
[▼]/[🔽] to zoom out one level
You can also press and hold the keys to quickly reach the required zoom level.

Note: You cannot change the zoom level while recording.

Adjusting the brightness level

The video clip brightness indicator shows the current brightness level.
[▶] to increase the brightness level
[◀] to decrease the brightness level

Note: You cannot change the brightness level while recording.

Playing video clips

Recorded video clips are saved to My Media. To play the saved video clips, see "Playing video clips" on page 133.

Video settings

In the preview screen, the following options are available by
pressing [▭] (Options).

Recording time	Select the video recording time from **Extended video** or **For MMS sending**.
Effect	Select the required colour from **Normal**, **Sepia**, **Monochrome** or **Negative**.
Self timer	Select the amount of time delay you require for recording from **Off**, **5 seconds** or **10 seconds**.
Switch to picture	Switch from Video mode to Picture mode.
Available space	Show the number of files which can be saved in the current recording time. You can see the number of files which can be saved in other recording time by pressing [▭] (RecTime).
Help	Show direct key operation in the preview screen.

Direct key operation

You can change the video settings by pressing one of the numeric
keys which correspond to the functions as follows. Some functions
are depicted by the icon. See "Icons on video preview screen" on
page 77.

[1]: Switch to picture
[2]: Recording time
[5]: Self timer
[7]: Effect
[0]: Help

Browser

Browser menu structure

> **PANASONIC BOX**

> **Note:** There are several ways to select items from menu lists. See "Menu selection method" on page 26.

Setting up your Browser

Your phone's WAP (Wireless Application Protocol) browser allows you to access services supported by the network such as news, weather reports, sports, etc.

Before Internet services can be accessed, you need to subscribe to your service provider to enable the relevant configuration information. (Your service provider may have already completed the connection settings. To configure the WAP profile settings, see "WAP profiles" on page 87.)

> **Note:** Modifying the preinstalled settings without accurate knowledge may cause a failure in connection.

Viewing the contents

Opening Browser

◯ Main menu > **Browser**

The off-line menu is displayed. You will not be connected until you choose a menu.

1. [▲/▼] to scroll to the required menu →
   [◉]

   The phone is connected to the web site.
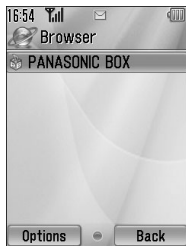
Shortcut: You can directly access Browser by pressing [▢] ( ) in standby mode.

Online status icons

	Non-secure CSD connection		Non-secure GPRS connection
	Secure CSD connection		Secure GPRS connection

Closing Browser

1. [▢] (Options) → Select **Exit browser**

Browser options

While Browser is on-line or off-line, the following options are available.

➲ Main menu > **Browser** [Off-line]

OR

➲ Main menu > **Browser** > Required menu [On-line]

1. [▢] (Options) → Select the required option

Select	Select the required item.
Bookmarks	Go to the bookmark list.
Enter address	Go to URL entry.
Save media*¹*²	The image in contents is saved to My Media.
Set as bookmark*¹	The displayed URL is saved to the bookmark list.
Service Inbox	Open Service Inbox.
Reload page*¹	Reload this page.
Advanced	Go to homepage, clear the cache, view or send the current URL, or view the current WAP information.
Settings	Edit WAP profiles/Push access settings or view the security information.
Exit browser*¹	Terminate the browser.

*¹ Available only when the web page is displayed.
*² Available only when the web page has the image, melody or video contents.

Bookmarks

Once you bookmark your favourite page or a frequently accessed page, you can jump to the page quickly. You can also categorise the bookmarked pages into 10 folders and rename each folder.

While off-line or on-line:

1. [▭] (Options) → Select **Bookmarks**
2. [▲ / ▼] to scroll to the required bookmark folder → [◉]
3. [▲ / ▼] to scroll to the required bookmark
4. To load the URL: [◉]
   To select the required option: [▭] (Options)

Go to page	Jump to the web page.
Add bookmark	Add to the bookmark list.
Edit	Edit the selected bookmark name and URL.
Move to	Move the selected bookmark to another folder.
Delete	Delete the selected bookmark.
Send bookmark	Send the bookmarked URL via **SMS** or **MMS**.
Delete all in folder	Delete all the bookmarks in the folder.

Renaming a bookmark folder

[▲ / ▼] to scroll to the required bookmark folder → [▭] (Options) → Select **Rename** → Enter a new folder name → [◉]

Deleting all bookmarks

In the bookmark list:

[▭] (Options) → Select **Delete all** → [▭] (Yes)

All the saved bookmarks are deleted, and the folder names return to the default.

Enter address

You can directly go to the required web page by entering the URL.
While off-line or on-line:

1. [▭] (Options) → Select **Enter address**
2. Enter URL → [◉]

Save media

Images, melodies or videos on the web page can be saved to My Media.
When the web page is displayed:

1. [▭] (Options) → Select **Save media**
2. [◉]/[▭] (Select) to save

> **Note:** Panasonic is not responsible for the performance of downloaded contents or possible corruption of phone software.

Set as bookmark

You can save the URLs of your favourite pages in Bookmarks.
When the web page is displayed:

1. [▭] (Options) → Select **Set as bookmark**
2. Enter title → [◉]
3. [▲/▼] to scroll to the required folder → [◉]/[▭] (Save)

Service Inbox

View WAP Push message and go to URL.
While off-line or on-line:

1. [⬜] (Options) → Select **Service Inbox**
2. To load the URL: [⬤]
   To select the required option: [⬜] (Options)

Go to page	Jump to the web page.
View message*[1]	View the message.
Delete	Delete the message.

*[1] Available only when text and URL are delivered from your service provider.

Reload page

Current page can be reloaded.
When the web page is displayed:

1. [⬜] (Options) → Select **Reload page**

Advanced

While off-line or on-line:

1. [⬚] (Options) → Select **Advanced**
2. Select the required option

Home	Jump to the set-up homepage.
Clear cache	Delete the contents stored in the cache.
View current URL*1	View the URL of the current page.
Send current URL*1	Send the URL of the current page via **SMS** or **MMS**.
WAP information	View WAP browser information.

*1 Available only when the web page is displayed.

Settings

WAP profiles

If no settings are present, contact your service provider.
You can check or edit the current WAP profile settings, or add new WAP profile settings.

➲ Main menu > **Browser** [Off-line]

1. [⬚] (Options) → Select **Settings**
2. Select **WAP profiles**
3. [▲ / ▼] to scroll to the required profile
4. [⬚] (Options) → Select **Activate**, **Edit** or **Delete**
5. If **Edit** is selected, you can edit the following information:
   Profile name, **Homepage**, **Proxy IP**, **Proxy port**, **Use proxy** and **Data connections**

Note: You need to configure GPRS or CSD before configuring the WAP profile settings. See "Data connections" on page 110.

Browser

Push access

Set up Push access to receive WAP messages.
While off-line or on-line:

1. [□] (Options) → Select **Settings**
2. Select **Push access**
3. Select **Service indication**, **Service loading** or **Other messages**
4. Select **On** or **Off**

Security

View security information.
While off-line or on-line:

1. [□] (Options) → Select **Settings**
2. Select **Security**
3. Select the required item

Certificates	Select **Certificate 1**-**20**.
Current certificate*[1]	View the current certificate.
Session info*[1]	View session information.

*[1] Available only while secure connection.

Settings

Settings menu structure

*1

*2

Note: There are several ways to select items from menu lists. See "Menu selection method" on page 26.

Phone settings

Profiles

You can switch among different profiles in your phone, each with a distinct combination of alert method, ringtone, etc. Profiles are set up for use in the following environments:

Normal	For everyday settings.
Silent	For formal occasions.
Meeting	For meetings.
Outdoor	For noisy environments.
Car	For driving occasions.

Activating a profile

➲ Main menu > **Settings** > **Phone settings** > **Profiles**

1. [▲ / ▼] to scroll to the required profile
2. [◉]

   OR

   [▢] (Options) → Select **Activate**

Setting a profile

You can personalise the individual settings within a profile. For further details about the individual settings, see "Sounds & alerts" on page 98.

➲ Main menu > **Settings** > **Phone settings** > **Profiles**

1. [▲ / ▼] to scroll to the required profile
2. [▢] (Options) → Select **Edit**
3. Select the required item
4. Select the required setting

Language

You can change the language used for display messages and/or text entry. **Automatic** uses the language dictated by the country/region code of the SIM card.

➲ Main menu > **Settings** > **Phone settings** > **Language** > **Display language** or **Input language**

1. Select **Automatic** or the required language

Time and date

You can set your Home clock and Away clock.

Home clock

You can set the current time and date on your phone.

➲ Main menu > **Settings** > **Phone settings** > **Time and date** > **Home clock**

1. Select the required setting

Set date & time	Enter the time → [▼] → Enter the date
Home area	Select your home area.
Summer time	Select **On** to activate the summer time mode.

Away clock

You can set Away clock to display the time in the area you choose.

➲ Main menu > **Settings** > **Phone settings** > **Time and date** > **Away clock**

1. Select the required setting

Set time zone	Select the required area.
Summer time	Select **On** to activate the summer time mode.

Choosing clock

You can choose either Home clock or Away clock to be displayed on your phone.

➲ Main menu > **Settings** > **Phone settings** > **Time and date** > **Select clock** > **Home clock** or **Away clock**

Display format

You can select the required display format for the date and time.

➲ Main menu > **Settings** > **Phone settings** > **Time and date** > **Display format** > **Time** or **Date**

1. To set **Time** format: Select **24 hour** or **12 hour**

   To set **Date** format: Select the required format (DD=date, MM=month, YY=year)

Illuminations

The Indicator/Illumination Light flashes or beams when you receive calls/messages, have a conversation, the flip is closed, the battery is charging or data is transferred.

➲ Main menu > **Settings** > **Phone settings** > **Illuminations**

1. Select the required event

Incoming	Select the required colour or **Off**.
Message	
In conversation	
Flip close	
Charging	Select **On** or **Off**.
Data transfer	

Note: You can check the **Flip close** illumination by pressing [⬛ / ⬛] while the phone is in standby mode with the flip closed.

Key settings

Key tone

You can change the key tone.

➲ Main menu > **Settings** > **Phone settings** > **Key settings** > **Key tone**
  1. Select the required tone

Key volume

You can change the key tone volume.

➲ Main menu > **Settings** > **Phone settings** > **Key settings** > **Key volume**
  1. $[\blacktriangle / \blacktriangledown / \blacktriangleleft / \blacktriangleright]$ to scroll to the required volume → $[\bullet]/[\square]$ (Select)

Key backlight

If you set the key backlight to off, you can maintain longer battery life.

➲ Main menu > **Settings** > **Phone settings** > **Key settings** > **Key backlight**
  1. Select **On** or **Off**

Settings

Keyguard

Keyguard prevents any keys from being accidentally pressed e.g. when the phone is being carried. When Keyguard is enabled, the Keyguard icon () appears on the display. When a call is received, Keyguard is temporarily disabled and you can answer the call.

To enable Keyguard:

⮑ Main menu > **Settings** > **Phone settings** > **Key settings** > **Keyguard**

1. "**Would you like to lock keypad?**" → [◉] **/** [▭] (Yes)

OR

In standby mode:

1. Press and hold [◉]
2. "**Would you like to lock keypad?**" → [◉] **/** [▭] (Yes)

Note: Emergency calls can still be made with the Keyguard enabled but there is no indication that you are dialling the number.

To disable Keyguard:

When () *appears on the display:*

1. [◉] → "**Would you like to unlock?**" → [◉] **/** [▭] (Yes)

Shortcut keys

Navigation key [▲ / ▼ / ◀ / ▶] can be used as a Shortcut key. It is possible to assign a specific menu to Navigation key so that you can access the menu directly from standby mode.

➡ Main menu > **Settings** > **Phone settings** > **Key settings** > **Shortcut keys**

1. Select **Navigation up**, **Navigation right**, **Navigation down** or **Navigation left**
2. Select the required menu

Master reset

You can reset your phone to the factory settings, except for the settings for Language, Time and date, and Calendar. User data such as contacts, messages, call logs and data stored in My Media remains on the phone.
Password is required for master reset. The factory set password is 0000.

Resetting

➡ Main menu > **Settings** > **Phone settings** > **Master reset** > **Reset settings**

1. "**Would you like to reset all phone settings?**" → [◉] / [▢] (Yes)
2. Enter the password → [◉] / [▢] (Ok)

Changing the password

➡ Main menu > **Settings** > **Phone settings** > **Master reset** > **Password setting**

1. Enter the current password → [◉] / [▢] (Ok)
2. Enter a new password → [◉] / [▢] (Ok)
3. Enter the new password again → [◉] / [▢] (Ok)

Display settings

Wallpaper

You can change the wallpaper on the standby screen.

➲ Main menu > **Settings** > **Display settings** > **Wallpaper**

1. Select **My Media** or **Download**[*1]
2. [▲/▼/◀/▶] to scroll to the required wallpaper
3. To set: [▭] (Select)
   To view and set: [◉] → [◉]/[▭] (Select)

Main menu icons

You can change menu icons or the background on Main menu screen.

Changing icons

To change menu icons:

➲ Main menu > **Settings** > **Display settings** > **Main menu icons**

1. [▲/▼/◀/▶] to scroll to the required menu icon → [◉]
2. Select **My Media** or **Download**[*1]
3. [▲/▼/◀/▶] to scroll to the required image
4. To set: [▭] (Select)
   To view and set: [◉] → [◉]/[▭] (Select)

To change the background:

➲ Main menu > **Settings** > **Display settings** > **Main menu icons**

1. [▭] (Options) → Select **Attach full image**
2. Repeat steps 2-4 in "To change menu icons:" on page 96

*1 ![icon]

Note: For downloading information, visit **http://box.panasonic.com/**

Setting back to default

➲ Main menu > **Settings** > **Display settings** > **Main menu icons**
1. [▭] (Options) → Select **Set to default**
2. "**Would you like to set default?**" → [◉]/[▭] (Yes)

Themes

You can change the colour theme of the display.

➲ Main menu > **Settings** > **Display settings** > **Themes**
1. Select the required colour theme

Brightness

You can adjust the brightness of the display.

➲ Main menu > **Settings** > **Display settings** > **Brightness**
1. [▲/▼] to adjust the brightness level → [◉]/[▭] (Select)

Backlight time

You can set the length of time the display is illuminated by the backlight.

➲ Main menu > **Settings** > **Display settings** > **Backlight time**
1. Select **10 seconds**, **30 seconds** or **60 seconds**

Operator name

You can change the position of your operator name on the standby screen.

➲ Main menu > **Settings** > **Display settings** > **Operator name**
1. Select **Default**, **Upper left** or **Lower left**

Sounds & alerts

Ringtone/Message alert

You can change the tone and/or the volume of the ringtone for
incoming calls and the Message alert for incoming messages.

Changing the ringtone/Message alert

➲ Main menu > **Settings** > **Sounds & alerts** > **Assign ringtone** or
Message alert

1. Select **My Media** or **Download**[*1]
2. [▲ / ▼] to scroll to the required tone
3. [◉] to listen to the tone → [☐] (Cancel) to stop the tone and
   return to the previous screen
4. [☐] (Select)

[*1]

Note: For downloading information, visit **http://box.panasonic.com/**

Changing the ringtone/Message alert volume

➲ Main menu > **Settings** > **Sounds & alerts** > **Incoming volume**
or **Message volume**

1. [▲ / ▼ / ◀ / ▶] to adjust the volume (**Volume 0**-**4**, **Step tone**) →
   [◉] / [☐] (Select)

Warning tone

The Warning tone informs you of low battery.

➲ Main menu > **Settings** > **Sounds & alerts** > **Warning tone**

1. Select **On** or **Off**

Startup tone/Shutdown tone

The Startup tone sounds after switching on the phone, while the Shutdown tone sounds after switching off the phone.

➲ Main menu > **Settings** > **Sounds & alerts** > **Startup tone** or **Shutdown tone**

1. Select **On** or **Off**

Vibration alert

The phone does not ring but vibrates to inform you of incoming calls and messages if you switch on vibration alert.

➲ Main menu > **Settings** > **Sounds & alerts** > **Vibration alert**

1. Select **On** or **Off**

Call settings

Call diverts

Voice, fax and data calls can be diverted to different numbers in different situations. For example, you can divert calls to your voice mailbox when you are out of reach.

Voice calls can be diverted in the following situations:

All calls	Divert all incoming voice calls.
When busy	Divert incoming voice calls when a call is in progress.
When no reply	Divert incoming voice calls if call is not answered.
When unreachable	Divert incoming voice calls when phone is not in a coverage area.

⮕ Main menu > **Settings** > **Calls** > **Call diverts**

1. Select **Divert voice**, **Divert all fax** or **Divert all data**
   (If **Divert all fax** or **Divert all data** is selected, go to step 3.)
2. Select the divert situation
3. Select **Direct input** or **From contacts**
4. If **Direct input** is selected: Enter the phone number to divert to → [◉]

   If **From contacts** is selected: Highlight the required contact → [▭] (Select) → If the card has several phone numbers stored, [▲ / ▼] to scroll to the required number → [◉]/[▭] (Select)
   When the setting is enabled, the divert icon (➡) is displayed on the standby screen.

To cancel each setting/check each status:

➲ Main menu > **Settings** > **Calls** > **Call diverts**

1. Select **Divert voice** → [▲/▼] to scroll to the required divert situation

   OR

   [▲/▼] to scroll to **Divert all fax** or **Divert all data**

2. [▭] (Options) → Select **Off** or **Status**

To cancel all the settings/check all the statuses:

➲ Main menu > **Settings** > **Calls** > **Call diverts**

1. Select **Cancel all** or **Status all**

Call waiting 🌀

If Call waiting is switched on, another call can be received while on a call and multiple calls can be made.

➲ Main menu > **Settings** > **Calls** > **Call waiting**

The current status is displayed.

To accept the current status:

1. [◉]

To change the setting:

1. [▭] (Options) → Select **Activate** or **Deactivate**

   The current status is displayed.

2. [◉] to accept the current status

Any key answer

Calls can be answered by pressing any key except [₀☎], [◉], [▭] (Cancel), [▯], [▯] and [▯].

When Any key answer is off, calls can only be answered by pressing [☎] or [▭] (Accept).

➲ Main menu > **Settings** > **Calls** > **Any key answer**

1. Select **On** or **Off**

Active flip

You can answer a call by opening the phone and end a call by closing the phone.

When Active flip is off, you need to press the appropriate key to answer or end the call. When you are using a headset, you can continue your conversation even while the phone is closed.

➲ Main menu > **Settings** > **Calls** > **Active flip**

1. Select **On** or **Off**

Auto answer

When you use the optional Personal Handsfree earpiece, you can answer a call automatically.

➲ Main menu > **Settings** > **Calls** > **Auto answer**

1. Select **On** or **Off**

Send my number

You can choose whether or not to show your name and/or number to another phone. You can comply with your network's own setting if you select **Network set**.

➲ Main menu > **Settings** > **Calls** > **Send my number**

1. Select **Network set**, **On** or **Off**

Call duration

You can check the duration of incoming or outgoing calls.

➲ Main menu > **Settings** > **Calls** > **Call duration**

1. Select **Incoming** or **Outgoing**
2. To reset the counter, [●]/[▭] (Reset)
3. "**Reset?**" → [●]/[▭] (Yes)

Service charge

Cost left

You can check the remaining call units available if Max cost is set.

➲ Main menu > **Settings** > **Calls** > **Service charge** > **Cost left**

Call meter

You can check the total costs of calls made.

➲ Main menu > **Settings** > **Calls** > **Service charge** > **Call meter**

To reset the counter:
1. [◉]/[▭] (Reset) → "**Reset total cost?**" → [◉]/[▭] (Yes)
2. Enter the PIN2 code → [◉]/[▭] (Ok)

Price/unit

You can set your personal rate of the cost that the service provider charges for one unit of call time.

➲ Main menu > **Settings** > **Calls** > **Service charge** > **Price/unit**

1. [◉]/[▭] (Edit) → Enter the PIN2 code → [◉]/[▭] (Ok)
2. Enter the currency → [◉]
3. Enter the value → [◉]/[▭] (Ok)
   To enter a decimal point: [#]

Max cost

You can set the maximum cost of calls allowed.

➲ Main menu > **Settings** > **Calls** > **Service charge** > **Max cost**

1. [◉] → Enter the PIN2 code → [◉]/[▭] (Ok)
2. Enter the credit limit → [◉]/[▭] (Ok)

To disable the Max cost:
In step 1, [▭] (Options) → Select **Disable** → [◉]/[▭] (Yes) →
Enter the PIN 2 code → [◉]/[▭] (Ok)

Connectivity

Infrared

You can transfer data between your phone and other infrared enabled devices using an infrared wavelength connection.
You can send Contacts card, calendar events, and pictures/sound clips/video clips stored in My Media.

Note: Some downloaded files may be protected under copyright laws. These files should not be sent.

Preparing for infrared connection

Place your phone and the other device within the effective range of 20 cm.

Infrared Port

- Verify there are no obstructions between the two devices. Nearby activated infrared devices may cause interference.
- Ensure that the infrared ports of the devices point at each other.
- On the receiving device, activate the Infrared port.
- If the other device is a computer, you need to set up infrared connection on the computer. (Example: For Windows XP, Start > Control Panel > Printers and Other Hardware > Wireless Link > Infrared tab > All others to send files to your computer using infrared communications)

Sending data via infrared

Prepare for infrared connection as described in "Preparing for infrared connection".

1. Select the item you wish to send

2. [⬜] (Options) → Select **Send via infrared**

   The phone automatically begins infrared connection.

   A confirmation message is displayed when complete.

Receiving data via infrared

Prepare for infrared connection as described in "Preparing for infrared connection" on page 104.

To activate infrared:

You need to activate the infrared function before receiving data. When infrared is set to on, the infrared icon (📶) appears on the display. If infrared is unused for 10 minutes or the phone is once switched off, it is automatically set to off and (📶) disappears.

➲ Main menu > **Settings** > **Connectivity** > **Infrared**

1. Select **On**

To receive data via infrared:

When (📶) is displayed, sender can begin transfer of data.

1. When transfer is started, "**Would you like to receive data?**" → [⬤]/[⬜] (Yes) to receive the data

2. When transfer is complete, "**Data received**" → Return to standby screen → Received file name is displayed → [⬤]/[⬜] (Save) to save the data

   The received data is stored in respective menus or files.

Synchronisation

You can synchronise your Contacts list with your network server. You may need to do this if you store your Contacts list on the network server, and you want them all to be the same. You can just send changes or send all your records to the network server. This function uses SyncML/OMA Standard technology.

Before you can synchronise your Contacts list, you need to set up a server profile and select a WAP profile.

Creating/editing a server profile

You can create up to 2 server profiles.

➲ Main menu > **Settings** > **Connectivity** > **Synchronisation**

1. [▭] (Options) → Select **Sync. settings**
2. [▲ / ▼] to scroll to the required profile
3. [▭] (Options) → Select **Edit**
4. Select the required setting → [◉]
5. Enter information → [◉]
6. [▭] (Save)

Profile name	Enter the profile name.
Server name	Enter the web address of the server.
Server database	Enter the database name of the server.
Server user ID	Enter your user name for the server.
Server password	Enter the password.

Selecting a server profile

➲ Main menu > **Settings** > **Connectivity** > **Synchronisation**

1. Repeat steps 1 and 2 in "Creating/editing a server profile" on page 106
2. [▭] (Options) → Select **Set**

Selecting a WAP profile

⊃ Main menu > **Settings** > **Connectivity** > **Synchronisation**

1. [▢] (Options) → Select **WAP profiles**
2. Select the required profile

Synchronising

To send only changes to the network server:

⊃ Main menu > **Settings** > **Connectivity** > **Synchronisation** > **Modified contacts**

The phone confirms completion.

To send all your records to the network server:

⊃ Main menu > **Settings** > **Connectivity** > **Synchronisation** > **All contacts**

The phone confirms completion.

> **Note:** If you are synchronising your Contacts list for the first time, or you need to make a large number of changes, then the synchronisation may take several minutes or more.
>
> You cannot synchronise the following fields: **Birthday**, **Postal address**, **Ringtone**, **Message alert**, **Illumination**, **Picture** and **Group**. There may be other fields that cannot be synchronised depending on the server.

Server or database authentication

While synchronising, you may be asked for server or database authentication. Enter the correct information and retry the synchronisation connection.

In authentication screen:

1. [▲ / ▼] to scroll to the required setting → [◉]
2. Enter the correct information → [◉]
3. To retry the synchronisation connection, [▢] (Options) → Select **Ok**

Cell Broadcast

You can receive messages on specified topics, such as weather information and traffic news, regularly from your service provider. You can specify the "topic(s)" of information and the language in which you wish to receive the information.

Activating Cell Broadcast

⊃ Main menu > **Settings** > **Connectivity** > **Cell Broadcast** > **On/Off**

1. Select **On** or **Off**

Reading a received message

⊃ Main menu > **Settings** > **Connectivity** > **Cell Broadcast** > **Read messages**

1. [▲/▼] to scroll to the required message → [◉]

Topics and languages

You can add, edit and delete topics and languages.

⊃ Main menu > **Settings** > **Connectivity** > **Cell Broadcast** > **Options** > **Topic** or **Language**

1. [▲/▼] to scroll to the required topic or language
2. [▣] (Options) → Select **Add**, **Edit** or **Delete**

GSM network

Selecting a network manually

You can manually select a network that is available in your current location.

➲ Main menu > **Settings** > **Connectivity** > **GSM network** > **New search**

  1. Select the required network

Network list

The network list is used when the Search mode is set to Automatic. The order in the list indicates the search priority. You can edit the list as required.

➲ Main menu > **Settings** > **Connectivity** > **GSM network** > **Select network**

  1. [▲ / ▼] to scroll to the required network
  2. [▢] (Options) → Select **Add**, **Insert**, **Edit** or **Delete**

  Add *stores a new network at the end of the list, while* **Insert** *stores a new network above the selected network.*

Search mode

You can set your phone to automatically or manually search for the other networks when roaming. When **Automatic** is selected, the phone automatically selects a new network in order to maintain optimum network availability. When **Manual** is selected, available networks are shown on the standby screen.

➲ Main menu > **Settings** > **Connectivity** > **GSM network** > **Search mode**

  1. Select **Automatic** or **Manual**

Note: National regulations may not permit roaming in your home region.

Data connections

GPRS settings and CSD settings are stored in the Data connections menu.

Data can be sent/received using GPRS or CSD technology.

Editing GPRS/CSD settings

➲ Main menu > **Settings** > **Connectivity** > **Data connections**

1. [▲ ∕ ▼] to scroll to the required setting you want to edit or **<Empty>** to add new setting → [◉]
2. If **<Empty>** is selected, select **GPRS** or **CSD**
3. Edit the required field → [▢] (Save)

Deleting GPRS/CSD settings

➲ Main menu > **Settings** > **Connectivity** > **Data connections**

1. [▲ ∕ ▼] to scroll to the required setting you want to delete
2. [▢] (Options) → Select **Delete**
3. [◉] ∕ [▢] (Yes)

Note: If your service provider has protected some of your settings, you may not be able to modify them.

USB

You can backup data stored on your phone to a PC using USB Cable. Install the Handset Manager software from the CD-ROM before using the USB Cable. (See "CD-ROM" on page 146.)

Security

PIN code

The PIN protects your SIM card against unauthorised use. If you enable the PIN, you will be prompted to enter the PIN code every time the phone is switched on.

The PIN2 controls security for certain service provider services such as Fixed dial and Service charge.

Note: If PIN is entered incorrectly 3 times the phone will be locked, and you will need to enter the PUK code. If PIN2 is entered incorrectly 3 times SIM card will be locked, and you will need to enter PUK2 code. If the PUK code is entered incorrectly 10 times, the phone will cease to operate permanently. All information stored in the SIM card will be lost and the SIM card will need to be replaced. Contact your service provider for further information.

Enabling/Disabling PIN entry

⥁ Main menu > **Settings** > **Security** > **PIN entry** > **Enable/disable**
  1. Select **Enable** or **Disable**
  2. Enter the PIN code (4-8 digits) → [⦿]/[▭] (Ok)

Changing PIN

You can change the PIN when PIN entry is set to Enable.

⥁ Main menu > **Settings** > **Security** > **PIN entry** > **Change PIN**
  1. Enter the current code → [⦿]/[▭] (Ok)
  2. Enter the new code → [⦿]/[▭] (Ok)
  3. Enter the new code again → [⦿]/[▭] (Ok)

Changing PIN2 ![icon]

➲ Main menu > **Settings** > **Security** > **Change PIN2**

1. Enter the current code → [●]/[▭] (Ok)
2. Enter the new code → [●]/[▭] (Ok)
3. Enter the new code again → [●]/[▭] (Ok)

Fixed dial ![icon]

When Fixed dial is enabled, only the phone numbers stored in SIM Contacts can be dialled. Any manually dialled phone numbers must match the phone numbers in SIM Contacts.

To store, edit or delete phone numbers in SIM Contacts, you need to enter your PIN2 code.

➲ Main menu > **Settings** > **Security** > **Fixed dial**

1. Select **Enable** or **Disable**
2. Enter the PIN2 code (4-8 digits) → [●]/[▭] (Ok)

Call barring

Call barring restricts certain calls, using a password supplied by your service provider.

The following Call bar settings are available:

Bar outgoing calls	All outgoing calls are barred.
Bar foreign calls	International outgoing calls are barred.
Bar foreign calls except Home	International outgoing calls except to your home country are barred.
Bar incoming calls	All incoming calls are barred.
Bar incoming if abroad	Roaming is barred if abroad.

Call barring setting

➲ Main menu > **Settings** > **Security** > **Call barring**
  1. Select the required setting
  2. Enter the password → [●]/[▭] (Ok)

To cancel setting/check status:

➲ Main menu > **Settings** > **Security** > **Call barring**
  1. [▲/▼] to scroll to the required setting
  2. [▭] (Options) → Select **Off** or **Status**
  3. If **Off** is selected, enter the password → [●]/[▭] (Ok)

To cancel all the settings/check all the statuses:

➲ Main menu > **Settings** > **Security** > **Call barring**
  1. Select **Cancel all** or **Status all**
  2. If **Cancel all** is selected, enter the password → [●]/[▭] (Ok)

Changing the password

➲ Main menu > **Settings** > **Security** > **Call barring** > **Password**
  1. Enter the current password → [●]/[▭] (Ok)
  2. Enter a new password → [●]/[▭] (Ok)
  3. Enter the new password again → [●]/[▭] (Ok)

Tools

Tools menu structure

[1]

> **Note:** There are several ways to select items from menu lists. See "Menu selection method" on page 26.

SIM Tool Kit

The SIM Tool Kit allows the applications existing on the SIM card to interact and operate with your phone. These applications, stored in the SIM memory, are Value Added Services. Your service provider can configure your SIM card with the applications that can be seen on your phone as additional menu items.

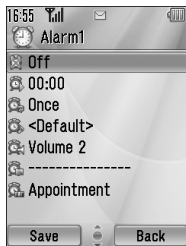For further information, contact your service provider.

Alarms

You can set up to 5 different alarms.

Setting the alarm

 Main menu > **Tools** > **Alarms**

1. [▲ / ▼] to scroll to the required setting → [◉]
2. [▲ / ▼] to scroll to the required field → [◉]
3. Enter information → [◉]
4. [▭] (Save) to store the entry

    The alarm icon (🔔) *appears on the standby screen.*

🔔 🔕	**Turn on/off**	Select **On** or **Off**.
🔔	**Time**	Enter the time.
🔔	**Repeat type**	Select **Once**, **Everyday** or **Weekly** for alarm repeat type.

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Tools

🕰	**Alarm tone**	Select alarm tone from **<Default>** or **My Media**. To download an alarm tone, select **Download***[1].
🕰	**Alarm volume**	Adjust alarm volume (**Volume 0**-**4** or **Step tone**).
🕰	**Stored pictures**	Select the required picture. The picture appears on the screen when the alarm sounds.
🕰	**Illumination**	Select the required illumination pattern or **Off**.

*[1] ⚡

Note: The alarm sounds at the time you set even if the phone is off.

For downloading information, visit **http://box.panasonic.com/**

Turning the alarm on/off

➲ Main menu > **Tools** > **Alarms**

1. [▲ / ▼] to scroll to the required setting
2. [□] (Options) → Select **Turn on** or **Turn off**

Stopping the alarm

When the alarm sounds, you can activate the snooze function to repeat the alarm 5 times at 5 minute intervals.

1. Press any key except [₀✂] → "**Stop snooze?**"
2. To stop the snooze function: [◉] / [□] (Turn off)
   To activate the snooze function: [□] (Snooze)

Shortcut: Stopping the alarm by pressing [₀✂] activates the snooze function and returns to standby mode.

Sound recorder

You can record sounds, your voice or phone conversation. The recorded sound clips (except for the phone conversation) can be attached to MMS messages.

Recording new sound clips

⮩ Main menu > **Tools** > **Sound recorder**

1. [◉]/[▭] (Start) to start recording
    The max. recording time is 3 minutes.
2. [◉]/[▭] (Stop) to stop recording
3. [◉] to play back if required
    [▲/▼] to adjust the volume
4. [▭] (Options) → Select **Save**
    The sound clip is saved to My Media.
    If you select **Send as MMS***, you can access MMS menu.*

Note: When you save the recorded sound clip and receive storage full message, press [◉]/[▭] (Yes) to save the recorded sound clip by deleting unwanted files in My Media.

Calculator

You can use the 4-function calculator (addition, subtraction, multiplication and division) to make simple arithmetic operations.

➲ Main menu > **Tools** > **Calculator**

1. Enter a number

   To enter a decimal point: [▢]

   To enter a negative sign: [#]

   To erase digits: [▢] (Clear)

2. [▲ / ▼ / ◀ / ▶] to select the arithmetic operation ([▲] to multiply, [▶] to add, [▼] to divide, [◀] to subtract)

3. Enter a number

4. [●] (=) to calculate

Calendar

Note: There are several ways to select items from menu lists. See "Menu selection method" on page 26.

Browsing Calendar

You can view the calendar by month, by week or by day.

Browsing operation

➲ Main menu > **Calendar**
To move around the calendar: [▲ / ▼ / ◀ / ▶]
To change the view format (Monthly view/Weekly view): see
View format in "Options"
To view the details of the selected day (Daily view): [◉]

Options

From Monthly view or Weekly view, the following options are
available by pressing [▢] (Options).

New entry	See "Creating Calendar events" on page 121.
View format	Change calendar view format, **Monthly** or **Weekly**.
Go to date	Go to specified date.
Send via infrared	Send calendar events via infrared. See "Infrared" on page 104.
Delete	See "Deleting multiple events" on page 123.
Lunar calendar detail[1]	Check Chinese Lunar calendar dates and festivals when viewing the western calendar.
Memory status	Show used memory for calendar.
Settings	See "Calendar settings" on page 124.

[1] Available only when **Display language** setting is set to Chinese
language. (See "Language" on page 91.)

Calendar

Calendar view

To change the calendar view format, see "Browsing operation" on page 119.

Monthly view

Current date	Red frame
Selected date	Coloured - Also displayed in the upper left of the calendar
Week number of selected date	Displayed in the upper right of the calendar
Scheduled note	Coloured - Also displayed in the schedule list with category icon, start time and note (up to 3 events)

Schedule list

Weekly view

Current date	Red line under week
Current week number	Displayed in the upper right of the calendar
Selected date	The day of the week is coloured - Also displayed in the upper left of the calendar
Scheduled note	The scheduled time zone is coloured

Daily view

Current date	Displayed in the upper left
Current week number	Displayed in the upper right
Scheduled note	Displayed with category icon, start time and note
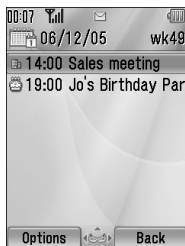
Creating Calendar events

➲ Main menu > **Calendar**

1. Select the day of the event you wish to store
2. [☐] (Options) → Select **New entry**
3. [▲ / ▼] to scroll to the required field → [◉]
4. Enter information → [◉]
   To enter characters, see "Text entry" on page 36.
5. [☐] (Save) to store the event

🗂	**Note**	Enter note (subject).
🗓	**Start date/time**	Enter the start time → [▼] → Enter the start date (Present time/date is already entered.)
🗓	**End date/time**	Enter the end time → [▼] → Enter the end date (Present time/date is already entered.)

	Calendar	
	Repeat type	Select an event repeat cycle.
	Reminder	Set the reminder to sound at the start time (**0 min.**) or certain minutes ahead of the start time. Select **Off**, **0 min.**, or **5**, **10**, **15**, **30**, **60**, **90 min. ahead**. When the reminder tone sounds, press [⬜] (View) to check the schedule or press [⬛] (Stop) to return to standby mode.
	Location	Enter location.
	Category	Select category.
	Calendar tone	Select a reminder tone from **<Default>** or **My Media**. To download a tone, select **Download**[*1].
	Calendar volume	Adjust the reminder volume (**Volume 0**-**4** or **Step tone**).
	Illumination	Select a reminder illumination pattern or **Off**.

[*1]

> **Note:** The reminder sounds at the scheduled time even if the phone is off.
>
> The calendar highlights only the start days of scheduled events if the events are scheduled for over days.
>
> For downloading information, visit **http://box.panasonic.com/**

Managing Calendar events

Editing events

➲ Main menu > **Calendar**
1. From Daily view, [▲/▼] to scroll to the required event
2. [▢] (Options) → Select **Edit**
3. Edit the required field → [▢] (Save) to overwrite

Deleting events

Deleting an event

➲ Main menu > **Calendar**
1. From Daily view, [▲/▼] to scroll to the required event
2. [▢] (Options) → Select **Delete**
3. [◉]/[▢] (Yes)

Deleting multiple events

To delete the events of the selected day or the past events:

➲ Main menu > **Calendar**
1. From Monthly view or Weekly view, [▲/▼/◀/▶] to scroll to the required date
2. [▢] (Options) → Select **Delete**
3. Select **Day** or **Past**
4. [◉]/[▢] (Yes)

To delete all events:

➲ Main menu > **Calendar**
1. From Monthly view or Weekly view, [▢] (Options) → Select **Delete**
2. Select **All**
3. [▢] (Yes)

Calendar settings

Selecting the starting day of the week

➲ Main menu > **Calendar**

1. [☐] (Options) → Select **Settings**
2. Select **Week starts on**
3. Select the required day of the week

Setting holidays

You can set holidays to be indicated in red.

➲ Main menu > **Calendar**

1. [☐] (Options) → Select **Settings**
2. Select **Holiday set**
3. [▲ / ▼] to scroll to the required day of the week → [●]
   Repeat this step to select other days of the week.
4. [☐] (Ok)

Chinese Lunar calendar

You can check Chinese Lunar calendar dates and festivals when still viewing western calendar. To display Chinese Lunar calendar, you need to select Chinese language in **Display language** setting (see page 91).

Switching on/off Chinese Lunar calendar

➲ Main menu > **Calendar**

1. [☐] (Options) → Select **Settings**
2. Select **Lunar calender**
3. Select **On** or **Off**

Viewing Chinese Lunar calendar detail

➲ Main menu > **Calendar**

1. [▲ / ▼ / ◀ / ▶] to scroll to the day you wish to view the detail
2. [☐] (Options) → Select **Lunar calendar detail**

My Media

My Media menu structure

*[1]

Note: There are several ways to select items from menu lists. See "Menu selection method" on page 26.

![My Media icon] **My Media**

Pictures

Pictures taken by Camera, images downloaded from a WAP site and received via infrared are stored in the Pictures folder.

Note: To use a file downloaded or indicated by the icon ( ), you may need to purchase the rights. For further information, contact your service provider.

Viewing pictures

⟳ Main menu > **My Media** > **Pictures** > **Stored pictures**

1. [▲ / ▼ / ◄ / ►] to scroll to the required thumbnail → [●]
   You can view the actual size of the selected picture by pressing [●] if the picture is larger than the display. To continue onto step 2, press [□] (Back).
2. [►] / [▼] to view the next picture or [◄] / [▲] to view the previous picture

Note: The file size of highlighted picture is displayed under the picture title, together with the date and time the image was stored. A picture of less than 1 kB is displayed as 1 kB.

Managing files

To make a new folder:
1. In the Stored pictures folder, [□] (Options) → Select **Manage files**
2. Select **New folder**
3. Enter folder name → [●]

To move the selected picture to another folder:
1. When the required thumbnail is highlighted, [□] (Options) → Select **Manage files**
2. Select **Move to folder**
3. Select the required folder

Options

When viewing the picture list, the following options are available by pressing [□] (Options).

Send as MMS	Attach the selected picture to an MMS message. See "Creating an MMS message" on page 58.
Use as	Use the selected picture as **Wallpaper** or **Contacts picture**. See "Using pictures" on page 128.
Delete	Delete the selected picture or folder.
Delete all	Delete all the pictures in the folder or all the folders.
Activate	Purchase your rights to view the selected picture.
Rename	Rename the selected picture or folder.
Send via infrared	Send the selected picture via infrared. See "Infrared" on page 104.
Resize	Resize the selected picture.
Edit	Edit the selected picture. See "Editing pictures" on page 128.
Change view	Change the picture list to **List** view or **Grid** view.
Manage files	Make a new folder or move the selected picture to another folder. See "Managing files" on page 126.
Details	Show details of the selected picture.

Note: Sending or editing of a forward locked picture indicated by the icon (➡✗) is restricted.

My Media

Using pictures

You can use the stored pictures as wallpapers or Contacts pictures.

➲ Main menu > **My Media** > **Pictures** > **Stored pictures**

1. [▲ / ▼] to scroll to the required picture
2. [▢] (Options) → Select **Use as**
3. Select **Wallpaper** or **Contacts picture**
    (If **Contacts picture** is selected, go to the next step.)
4. Highlight the required contact → [▢] (Select)
5. [▢] (Save)

Editing pictures

Adding frame

You can add a frame to your picture.

➲ Main menu > **My Media** > **Pictures** > **Stored pictures**

1. When the required thumbnail is highlighted or the required picture is displayed on the screen, [▢] (Options) → Select **Edit**
2. Select **Add frame**
3. Select the required frame
    The picture with the selected frame is displayed.
    You can change the frame by pressing [◀ / ▶].
4. [◉] / [▢] (Save)
5. Enter the file name → [◉]

Note: Adding a frame is available only when the size of the picture to be edited is **Medium 320x240**, **Small 160x120** or **Main display 240x320**.

Trimming

You can trim your pictures.

➲ Main menu > **My Media** > **Pictures** > **Stored pictures**

1. When the required thumbnail is highlighted or the required picture is displayed on the screen, [⬜] (Options) → Select **Edit**

2. Select **Trimming**

3. Select the required trimming size

4. If **Free size** is selected: [▲ / ▼ / ◄ / ►] to determine the starting point → [⬤] / [⬜] (Start) → [▲ / ▼ / ◄ / ►] to determine the ending point → [⬤] / [⬜] (Ok)

   If a size other than **Free size** is selected: [▲ / ▼ / ◄ / ►] to move the trimming box → [⬤] / [⬜] (Start)

5. [⬤] / [⬜] (Save)

6. Enter the file name → [⬤]

Clearing shadow

You can make dark pictures clearer.

➲ Main menu > **My Media** > **Pictures** > **Stored pictures**

1. When the required thumbnail is highlighted or the required picture is displayed on the screen, [⬜] (Options) → Select **Edit**

2. Select **Clear shadow**

3. [⬤] / [⬜] (Save)

4. Enter the file name → [⬤]

 My Media

Downloading picture files

➲ Main menu > **My Media** > **Pictures** > **Download**

The download site is displayed.

Note: Panasonic is not responsible for the performance of downloaded contents or possible corruption of phone software.

For downloading information, visit **http://box.panasonic.com/**

Taking a new picture

➲ Main menu > **My Media** > **Pictures** > **Take new picture**

The phone switches to Picture mode. See "Taking a picture" on page 72.

Sounds

Sound clips recorded by Sound recorder, downloaded from a WAP site and received via infrared are stored in the Sounds folder.

Note: To use a file downloaded or indicated by the icon (⊜), you may need to purchase the rights. For further information, contact your service provider.

Playing sound clips

➲ Main menu > **My Media** > **Sounds** > **Stored sounds**

1. [▲ / ▼] to scroll to the required sound file → [◉]

   [▲ / ▼] *to adjust the volume.*

2. To stop: [◉]

   To restart: [▭] (Restart)

Note: The MX6 supports the ISO standard for MP3, nonconforming MP3 formats may not play properly.

Managing files

You can make new folders or move the selected sound files to another folder. See "Managing files" on page 126.

Options

In the sound list, the following options are available by pressing [▣] (Options).

Send as MMS	Attach the selected sound clip to an MMS message. See "Creating an MMS message" on page 58.
Use as	Use the selected sound clip as **Ringtone**, **Message alert** or **Contacts ringtone**. See "Using sound clips" on page 132.
Play in sequence	Select **Looped** or **Random** to play all the sound clips in the selected folder in a loop or at random.
Delete	Delete the selected sound file or folder.
Delete all	Delete all the sound files in the folder or all the folders.
Activate	Purchase your rights to play the selected sound file.
Rename	Rename the selected sound file or folder.
Send via infrared	Send the selected sound file via infrared. See "Infrared" on page 104.
Manage files	Make a new folder or move the selected sound file to another folder. See "Managing files" on page 126.
Details	Show details of the selected sound file.

Note: The file size of highlighted sound is displayed at the top of the list, together with the date and time the sound file was stored. A sound file of less than 1 kB is displayed as 1 kB.

Sending or editing of a forward locked sound indicated by the icon (➡✗) is restricted.

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My Media

Using sound clips

You can use the stored sound clips as ringtones, Message alerts or Contacts ringtones.

➲ Main menu > **My Media** > **Sounds** > **Stored sounds**

1. [▲ / ▼] to scroll to the required sound clip
2. [▢] (Options) → Select **Use as**
3. Select **Ringtone**, **Message alert** or **Contacts ringtone** (If **Contacts ringtone** is selected, go to the next step.)
4. Highlight the required contact → [▢] (Select)
5. Select Ringtone (🎵) or Message alert (🎵)
6. [▢] (Save)

Downloading sound clips 🎐

➲ Main menu > **My Media** > **Sounds** > **Download**

The download site is displayed.

Note: Panasonic is not responsible for the performance of downloaded contents or possible corruption of phone software.

For downloading information, visit **http://box.panasonic.com/**

Recording new sound clips

➲ Main menu > **My Media** > **Sounds** > **Record new sound**

The phone switches to the Sound recorder mode. See "Sound recorder" on page 117.

Videos

Video clips recorded by Video recorder, downloaded from a WAP site and received via infrared are stored in the Videos folder.

Note: To use a file downloaded or indicated by the icon (⊸⓪), you may need to purchase the rights. For further information, contact your service provider.

Playing video clips

➲ Main menu > **My Media** > **Videos** > **Stored videos**

1. [▲ / ▼] to scroll to the required video file → [◉]
   [▲ / ▼] *to adjust the volume.*
2. To stop: [◉]
   To restart: [▢] (Restart)

Note: The file size of highlighted video is displayed at the top of the list, together with the date and time the video file was stored. A video file of less than 1 kB is displayed as 1 kB.

Managing files

You can make new folders or move the selected video files to another folder. See "Managing files" on page 126.

Options

In the video list, the same options in the Sounds folder are available. See "Options" on page 131. Note that **Use as** option is not available for video files.

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Downloading video clips

➲ Main menu > **My Media** > **Videos** > **Download**

The download site is displayed.

Note: Panasonic is not responsible for the performance of downloaded contents or possible corruption of phone software.

For downloading information, visit **http://box.panasonic.com/**

Recording a new video

➲ Main menu > **My Media** > **Videos** > **Record new video**

The phone switches to Video mode. See "Recording a video clip" on page 78.

Games

Preloaded games and downloaded games are stored in the Games folder.

Note: To use a file downloaded or indicated by the icon (⇦▯), you may need to purchase the rights. For further information, contact your service provider.

Playing games

➲ Main menu > **My Media** > **Games** > **Stored applications**

1. [▲ / ▼] to scroll to the required game → [●]
   For further details, see "Games" on page 138.

Downloading games

➲ Main menu > **My Media** > **Games** > **Download**

For further details, see "Download games" on page 140.

Note: Panasonic is not responsible for the performance of downloaded contents or possible corruption of phone software.

For downloading information, visit **http://box.panasonic.com/**

Text templates

You can use templates stored in the phone when creating a text message. You can also save frequently used text as templates.

Editing Text templates

➲ Main menu > **My Media** > **Text templates**

1. [▲ / ▼] to scroll to the required template → [◉]
2. Edit the template → [◉]

Options

In the text templates list, the following options are available by pressing [▭] (Options).

New	Create a new template.
Create message	Create an **SMS** or **MMS** message using the selected template.
Edit	Edit the selected template.
Delete	Delete the selected template.
Delete all	Delete all the templates.
Details	Show details of the selected template file.

Memory status

You can see how much data is stored in the individual folders in My Media.

➲ Main menu > **My Media** > **Memory status**

> **Note:** To decrease the amount of phone memory used, delete unwanted data or store data on your PC (see "CD-ROM" on page 146).

Games

Games menu structure

*1

Note: There are several ways to select items from menu lists. See "Menu selection method" on page 26.

Games

Selecting games

Your phone has preinstalled Java™ applications. The downloaded Java™ applications are also listed here.

➲ Main menu > **Games** > **Games**

1. [▲ / ▼] to scroll to the required application
2. [▢] (Options) → Select the required option

Run	Run the selected Java™ application.
Permission	Select **Network access**, **Messaging** or **Auto invocation**, then select **Always allowed**, **Ask first time**, **Ask every time** or **Not allowed**.
Details	Show the application name, version, vendor, storage size, etc.
Delete	Delete the selected Java™ application (except for the preinstalled applications).
Activate	Purchase your rights to run the selected Java™ application.

Note: Your phone supports J2ME™ Java™ applications. Other types of Java™ applications cannot be installed.

SONIC THE HEDGEHOG

This is a mobile version of the high speed action classic, "Sonic the Hedgehog", which originally debuted in 1991 on the Mega Drive (SEGA Genesis).

Save the animals from the evil scientific genius, Dr. Eggman, and stop him from taking over the world!

Your objective is to get Sonic to the end of the game in one piece! The game has 6 Zones, and each Zone is divided into 3 Acts. In Act 3, Dr. Eggman will arrive in his contraption. Beat him to clear the Zone.

➲ Main menu > **Games** > **Games** > **SONIC THE HEDGEHOG**

Key operation:

Move/Dash right	Press [▶] or press [6] key.
Move/Dash left	Press [◀] or press [4] key.
Jump	Press [▲] or press [2] key.
Look Up	Press [◉] or press [5] key.
Crouch	Press [▼] or press [8] key.
Spin	Press [▼] or press [8] key (during dash).

Soccer

This game is a 3D soccer game. Play and win exhibition game with selected country.

➲ Main menu > **Games** > **Games** > **Soccer**

Key operation:

Move/Dribble	Press Navigation key.
Shoot	Press [#] key.
Pass	Press [◉] or press [5] key with a ball.
Slide tackle	Press [◉] or press [5] key without a ball.

Suspending/Terminating the game

1. [⌀✕]

2. Select **Suspend** or **Terminate**

   When you select **Suspend***, Java^{TM} icon (▣) appears on the standby screen.*

To resume the game:

➲ Main menu > **Games** > **Games**

1. Select **Resume**

   The Java^{TM} application starts running.

Note: You can also suspend the Java^{TM} application by closing the flip.

Download games

You can download games to your phone from WAP sites. For customer support of downloaded contents, visit the respective supplier's web sites.

➲ Main menu > **Games** > **Download**

1. Select the required Java^{TM} application

   When the downloading is over, "Would you like to run application?" appears.

2. To run the Java^{TM} application: [◉]/[▭] (Ok)

   To exit: [⌀✕]/[▭] (Cancel)

Note: Panasonic is not responsible for the performance of downloaded contents or possible corruption of phone software.

For downloading information, visit **http://box.panasonic.com/**

Settings

➲ Main menu > **Games** > **Settings**

1. Select the required setting

Sound volume	Adjust the sound volume of Java^{TM} applications.
Backlight	Switch the backlight on in **Application preference** or **System preference**, or switch **Off**.
Vibration	Switch the vibration function for Java^{TM} applications **On** or **Off**.
Reset	Delete all the downloaded Java^{TM} applications, reset records of preloaded Java^{TM} application and initialise Java^{TM} settings.
WAP profiles	Select the required profile setting.

Information

You can view copyright information about the software used on the phone.

➲ Main menu > **Games** > **Information**

Appendix

Accessories

The following accessories are available for your Panasonic phone.

> **Note:** Availability depends on your country/region.

Battery (EB-BS002)
Double your talk time by having a spare battery.
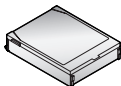
Travel Charger
Carry this wherever you go, so you can always recharge your battery.

(EB-CA001 AU) (EB-CA001 EU)
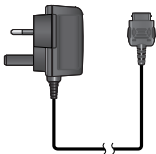
(EB-CA001 UK) (EB-CA001 US)
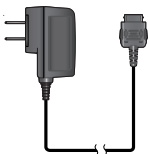
**Personal Handsfree (Mono)** (EB-EMX800)

Plug into your phone and talk without holding the
phone to your ear.

Personal Handsfree (Stereo) (EB-EM001)

Talk/listen to the music and move while keeping your
hands free, by using a Personal Handsfree. Put the
ear pieces in your ears and the adaptor in the side of
the phone.

In-Car Charger (EB-CD001)

Recharge the battery using your vehicle's
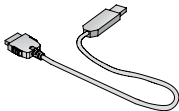cigarette lighter socket.
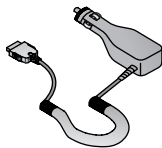
Car Holder (EB-KA001)

This can be mounted in your vehicle to store your
phone.
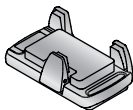
USB Cable (EB-USX800)

Use this to connect your phone to a PC to transfer data between them. Use in conjunction with the software provided on the CD-ROM.

Branch Cable (EB-CBX800)

This cable branches the connection to a USB Cable, Personal Handsfree and Travel Charger so that you can transfer data OR talk on handsfree while charging.
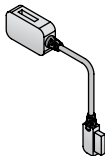
Contact

(ASIA-PACIFIC)		
AUSTRALIA	Panasonic Australia	**132-600**
HONG KONG	Shun Hing Technology Co., Ltd.	**2313-0888**
INDIA	Panasonic India Pvt. Ltd.	**(0120)-256-7045**
INDONESIA	PT. MET GOBEL	**(021)-8015666**
MALAYSIA	Panasonic Malaysia Sdn, Bhd.	**(03)-55422288**
NEW ZEALAND	Panasonic New Zealand Ltd.	**(09)-272-0100**
PHILIPPINES	Panasonic Philippines	**(02)-899-4595 to 98**
SINGAPORE	Panasonic Singapore	**6282-6868**
TAIWAN	Panasonic Systems Sales Taiwan Co., Ltd.	**(02)-2227-6111**
THAILAND	Panasonic Siew Sales (Thailand) Co., Ltd.	**(02)-731-8888 ex. 2310**
VIETNAM	Matsushita Electric Industrial Co., Ltd. Ho Chi Minh Office	**(08)-8219160**
(LATIN AMERICA)		
BRASIL	Panasonic do Brasil Ltda.	**(0800)-704-2019**
COLOMBIA	Panasonic de Colombia S.A.	**(1)-623-3383**
MEXICO	Panasonic de Mexico, S.A. de C.V.	**(55)-5-488-1000**
PANAMA	Panasonic Latin America, S.A.	**(229)-2955**
PERU	Panasonic Peruana S.A.	**(1)-614-0000**
VENEZUELA	Panasonic de Venezuela, C.A.	**(212)-945-3022**

CD-ROM

Note: Availability depends on your country/region.

PC Software

The CD-ROM supplied with your MX6 phone contains a software application which allows you to manage the information in your phone from a Personal Computer (PC). This application includes:

Handset Manager

With Handset Manager you can easily manage your phone information on a PC and synchronise it back to the phone. This information includes contacts, calendar, messages, and the image, video and sound data held in your MX6 phone. For further information please refer to the documentation on the CD-ROM, or to the Panasonic website
http://panasonic.co.jp/pmc/products/en/support/index.html

Installing the Software

The software is compatible with PCs and laptops running Microsoft Windows^{TM} 98 SE, Windows Me, Windows 2000 and Windows XP. On most PCs the software should auto-install when the CD-ROM is inserted into the CD drive. If not, then autoplay must be manually selected in Windows Explorer. Follow the instructions that appear on the PC screen to install the software.

Troubleshooting

Problems

Should any problem persist, contact your dealer.

Problem	Cause	Remedy
Phone will not switch on.		Check that the battery is fully charged and correctly connected to the phone.
Extremely short battery life for a new battery.	The network you are using and the condition of the battery can affect battery life.	
Short battery life for an old battery.	The battery has worn out.	Replace with a new fully charged battery.
The battery charge level indicator does not appear and the phone cannot be switched on when charging.	The battery is not attached to the phone or the battery has been deeply discharged.	Leave the phone charging the battery for a few minutes before the battery charge level indicator appears and attempt to switch the phone on.
Battery fails to charge.	The battery is not attached to the phone.	Ensure the battery is fitted to the phone prior to commencing charging.
	The battery was connected to the phone after the charger was connected.	

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Problem	Cause	Remedy
Battery fails to charge.	The battery temperature exceeds the charging temperature range (too hot or too cold).	Use the battery at room temperature.
Display looks faded.	The Brightness level is low.	Check the **Brightness** setting (see page 97).
Calls cannot be made.	Keyguard is on.	Disable keyguard.
	Outgoing calls are barred.	Disable outgoing call barring or barred dialling.
	Fixed dialling is switched on so that only the numbers stored in Contacts can be dialled.	Switch off the Fixed dialling.
	The phone is not registered with a network.	Move to a coverage area and operate your phone after it has registered with a network.
Calls cannot be received.	The phone is not switched on.	Switch the phone on.
	Incoming calls are barred.	Disable incoming call barring.
	The phone is not registered with a network.	Move to a coverage area and operate your phone after it has registered with a network.
Emergency calls cannot be made.	You are not in a GSM coverage area.	Check that the antenna symbol (**Y**) is displayed - move to a coverage area and operate your phone when the antenna symbol is displayed.

Error messages

These are some of the most important error messages which may
be displayed:

Location area not allowed!	Roaming in the selected area is not allowed.
Network not allowed!	Roaming with the selected network is not allowed.
Security failure!	The network has detected an authentication failure because your SIM card is not registered with that network - contact your service provider.
SIM blocked	The SIM card is blocked because the PIN unblocking key (PUK) has been entered incorrectly 10 times - contact your service provider.
Restarting SIM. Please wait	The phone has detected a problem with the SIM card - switch the phone off and then back on; if the message is still displayed - contact your service provider.
Invalid SIM	The SIM card has failed one or more of the SIM personalisation checks - contact your service provider.
Function unavailable	The selected feature is either not supported by the SIM card or is not available with the current subscription - contact your service provider.
PIN2 invalidated	The PIN2 is blocked permanently because the wrong PUK2 has been entered 10 times, services controlled by PIN2 cannot be used - contact your service provider.
Message rejected. Storage full or **Message rejected. SIM full**	A message has been received but the message store is full - to receive messages, delete some of the currently stored messages.
Phone number too long! (Max: xx)	The edited or newly created contact number is too long for the SIM card.

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Memory low! Message may not be stored	The message area is full. Your messages cannot be stored until some of the currently stored messages are deleted.
Verification failure	On changing the PIN/PIN2, verification of the new code is incorrect - retry changing the PIN/PIN2 with correct verification.

Glossary of terms

CSD	Circuit Switched Data. A communication method used to transmit data over telephone connections.
DTMF	Dual Tone Multi-Frequency allows you to communicate with computerised phone systems, voice mailboxes, etc.
GPRS	General Packet Radio Service. A GSM transmission technique that transmits and receives data in packets rather than setting up a continuous channel.
GSM	Global System for Mobile communications. The name given to the advanced digital technology that your phone uses.
Infrared	A type of wireless connection that allows data to be transmitted directly to another device.
Java^{TM}	A programming language developed by Sun Microsystems. Programs written in Java do not rely on an operating system.
Network Operator	The organisation responsible for operating a GSM network.
PIN / PIN2	Personal Identification Number. PIN is used for SIM card security. PIN2 is used for the control of Fixed dialling and Call charges metering. Supplied by your service provider. If the PIN or PIN2 is entered incorrectly several times (basically 3 times), the PIN or PIN2 will be blocked.

PUK / PUK2	PIN or PIN2 Unblocking Key. Used to unblock the PIN or PIN2 code. Supplied by your service provider. If the PUK or PUK2 is entered incorrectly 10 times, the PUK or PUK2 will be blocked.
Roaming	The ability to use your phone on networks other than your home network.
Service provider	The organisation responsible for providing access to the GSM/GPRS network.
SIM	Subscriber Identity Module. A small smart-card which stores unique subscriber and user entered information such as Contacts entries and short messages. Supplied by your service provider.
URL	Uniform Resource Locator. The URL is an alphanumeric address that points to homepages and other Internet locations.
WAP	Wireless Application Protocol. The communication standard which enables you to download resources from the Internet to your phone.

Specifications

Bands supported	GSM 900 Class 4 GSM 1800 Class 1 GSM 1900 Class 1
Standby time[1]	300-740 hours
Talk time[1]	4-12 hours
Charging time[2]	Up to 290 minutes
Temperature range	Charging: +5°C - +35°C Storage: -20°C - +60°C
Weight	130 g (including battery)

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Dimensions (excluding protrusions)	Height: 96 mm Width: 46 mm Depth: 26 mm
Volume	105 cc
Battery	1660 mAh Li-ion
Antenna	Internal
SIM type	1.8 V/3 V
Memory storage	MMS: 2 MB User data (excluding MMS) and preinstalled applications: 30 MB
Display	QVGA 240 x 320 pixels TFT LCD: Approx. 16 million colours (JPEG and camera/video image[3]) Brightness: Approx. 300 cd/m^2
Camera	1.3 M pixels CMOS
Connectivity	Infrared: SIR (slow infrared) USB: v2.0

[1] Talk and Standby times will be dependant upon network conditions, SIM card, backlight usage, battery condition/charging management and the use of applications such as camera and games where available.

[2] Charging time depends on usage and battery condition.

[3] 65k colours for other image formats

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CP8 Patent

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