

Bookmarks

Once you set your favourite page as a bookmark, you can quickly jump to the page.

Adding the Bookmark from the Browser menu

From **Browser**

1. **Bookmarks** (Select)
2. required empty bookmark (Options)
3. **Edit** (Select)
4. Enter the title and URL (Save)



Adding the Bookmark to the home page

1. **Start browser** (Select)
2. **Bookmarks** (Select)
3. **Mark Site**
4. Enter the URL (Save)

To bookmark **Panasonic Box**:
Enter
http://wap.panasonicbox.com
in step 4, then press to save.



NOTE: Panasonic Box is network dependent.

Viewing the Bookmark

From **Browser**

1. **Bookmarks** (Select)
2. required bookmark
 (Options)
3. **Launch** (Select)

OR

(Launch) after selecting the required bookmark



NOTE: This service is network dependent or may only be available on a subscription basis.

Push setting

You can set the push setting to decide how you want to receive push messages sent by your service provider.

From **Browser**

1. **Push setting** (Select)
2. **Always all, Always none or Always this specific SMS centre** (Select)

Connectivity

You must set the data connections (GPRS and CSD settings) before setting the server information.

From **Browser**

1. **Connectivity** (Select)
2. **CSD settings, GPRS settings** or **GPRS Info** (Select)
3. required setting (Select)
4. Edit the required information (Save)

You can edit the following after selecting the required connection setting:

CSD settings:

- *Server name*
- *Call type (ISDN/Analogue)*
- *Dial number*
- *Login name*
- *Password*

GPRS settings:

- *Server name*
- *GPRS APN*
- *Login name*
- *Password*
- *Authentication (Activate/Deactivate)*



GPRS Info:

You can also select the GPRS info in step 2 to view the memory and duration of the GPRS service used.

Camera Menu

Camera



Camera

Camera Preview mode

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Video

Video Preview mode

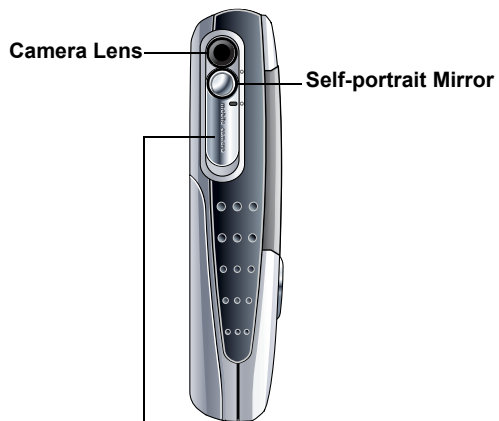
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Still Picture mode

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Your camera

(Left side view)



Lens Cover:

Slide the cover halfway down to turn the Camera Preview mode on. When the cover is in the uppermost position, the Camera Preview mode is off. When the cover is slid all the way down, the LCD pops open.

(Right side view: LCD Open)



Shutter Key:

Press to take a picture or record a video clip. If the Camera Preview mode is not on even with the Lens Cover open, press to turn the Camera Preview mode on.

Taking a picture

You can take pictures with the built-in camera and send them in multimedia (MMS) e-mail messages. You can also use them as wallpaper.

Camera Preview mode:

In Idle mode or from the Camera menu, slide the Lens Cover halfway down to launch the Camera Preview mode. You can also turn the Camera Preview mode on by pressing the Shutter Key if the Camera Preview mode is not on even with the Lens Cover open.

Still Picture mode:







In Camera Preview mode, press the Shutter Key to take a picture. The display then turns into the Still Picture mode.

In Camera Preview mode

Press the Shutter Key to take a picture





Key functions in Camera Preview mode

Key	Function
	Press to zoom in.
	Press to zoom out.
	Press to activate the camera function menu.
	Press to display the camera function icons. To activate one of the functions, press  ~  .




Zoom

In **Camera Preview** mode

Press  to zoom in or  to zoom out.

Viewfinder











In **Still Picture** mode

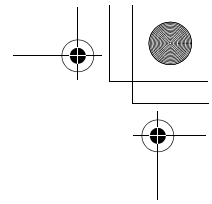
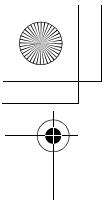
1.  (Options)
2.  **Viewfinder**  (Select)

➤ The viewfinder brings you back to the Camera Preview mode.

Sending the picture via MMS




In **Still Picture** mode

1.  (Options)
2.  **Send via MMS**  (Select)
3.  (Insert) to add multimedia files
4.  (Options)
5.  **Send via MMS**  (Select)
6. Enter the required information  (Options)
7.  **Send**  (Select)








Setting the picture as Wallpaper

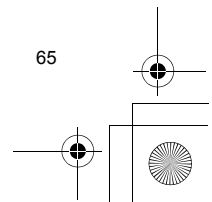
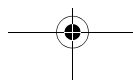
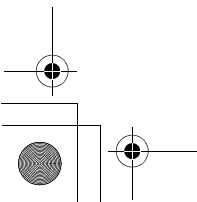
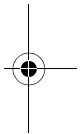
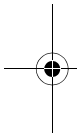
In **Still Picture** mode

1.  (Options)
2.  **Set as wallpaper**  (Select)

Viewing the stored picture

In **Still Picture** mode

1.  (Options)
2.  **View pictures**  (Select)
3.  required picture  (Select)



Camera settings

Self timer

The self timer delays shooting for 10 seconds.

In **Camera Preview** mode

1.  (Options)
2.  **Self timer**  (Select)
3.  **On or Off**  (Select)



Frame

You can take a picture with a frame of your choice.

In **Camera Preview** mode






1.  (Options)
2.  **Frame**  (Select)
3.  **Off or Frame 1~10**
 (Select)



Image size

You can make your picture larger or smaller.

In **Camera Preview** mode

1.  (Options)
2.  **Image size**  (Select)
3.  required image size  (Select)






The following image sizes are available:

- **VGA (640 x 480 pixels)**
- **CIF (352 x 288 pixels)**
- **QVGA (320 x 240 pixels)**
- **QCIF (176 x 144 pixels)**
- **QQVGA (160 x 120 pixels)**
- **Sub-QCIF (128 x 96 pixels)**

Quality

You can choose the image quality of your picture.

In **Camera Preview** mode

1.  (Options)
2.  **Quality**  (Select)
3.  **Fine (90%), Normal (80%) or Economy (50%)**
 (Select)

➤ *Fine produces a large file with a high resolution, while Economy produces a small file with a low resolution.*

Brightness

You can adjust the brightness in 5 steps.

In **Camera Preview** mode

1.  (Options)
2.  **Brightness**  (Select)
3.  Adjust the brightness
 (Select)



Special effects

You can change your picture's colours.

In **Camera Preview** mode

1.  (Options)
2.  **Special effects**  (Select)
3.  **Normal, Mono, Sepia or Bluish**  (Select)

Twilight

You can turn the Twilight mode on when taking a picture in low light conditions.






In **Camera Preview** mode

1.  (Options)
2.  **Twilight**  (Select)
3.  **On or Off**  (Select)

Close up mode

You can turn the close up mode on when taking a picture at a close range.

In **Camera Preview** mode






1.  (Options)
2.  **Close up mode**
3.  (Select)
3.  **On or Off**  (Select)



Anti flicker

The anti flicker indicates how many times an image appears on a display per second. The higher the anti flicker, the less obvious the screen flicker is.




In **Camera Preview** mode

1.  (Options)
2.  **Anti flicker**  (Select)
3.  **50 (Hz) or 60 (Hz)**  (Select)

Default settings

All personal settings can be returned to their factory default settings.

In **Camera Preview** mode

1.  (Options)
2.  **Default settings**  (Select)

Recording a video clip


While the Camera Preview mode is active, the camera can be switched to a video recorder.

Video Preview mode:



In Idle mode or from the Camera menu, slide the Lens Cover halfway down and press the Right Soft Key to launch the Video Preview mode. You can also turn the Video Preview mode on by pressing the Shutter Key followed by the Right Soft Key.

Still Picture mode:

In Video Preview mode, press the Shutter Key to record a video clip. The display then turns into the Still Picture mode.






To switch the Camera Preview mode to the Video Preview mode: press .

Key functions in Video Preview mode

Key	Function
	Press to activate the video function menu.
	Press to display the video function icon.




Quality

In **Video Preview** mode

1.  (Options)
2.  **Quality**  (Select)
3.  **Fine, Normal or Economy**  (Select)

Default settings

In **Video Preview** mode

1.  (Options)
2.  **Default settings**  (Select)

Recording

In **Video Preview** mode

Press the Shutter Key to start recording a video clip

Press the Shutter Key once more to stop recording a video clip.






Playing the video clip

In **Still Picture** mode

1.  (Options)
2.  **Play**  (Select)











Viewfinder

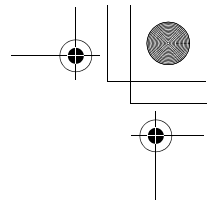
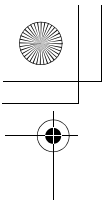
In **Still Picture** mode

1.  (Options)
2.  **Viewfinder**  (Select)

Sending the video clip via MMS






In **Still Picture** mode

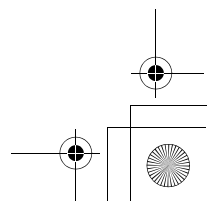
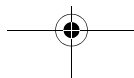
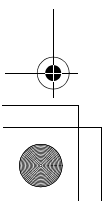
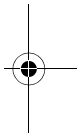
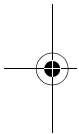
1.  (Options)
2.  **Send via MMS**  (Select)
3.  (Insert) to add multimedia files
4.  (Options)
5.  **Send via MMS**  (Select)
6. Enter the required information  (Option)
7.  **Send**  (Select)



Viewing the stored video clips

In **Still Picture** mode

1.  (Options)
2.  **View videos**  (Select)
3.  required video clip  (Select)



Messages Menu

Messages



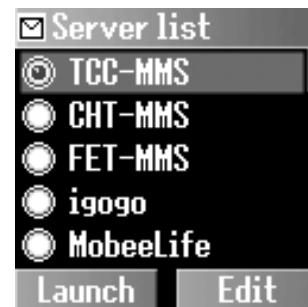
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MMS settings

Configuring MMS

From **Messages**

1. **Settings** (Select)
2. **MMS** (Select)
3. **Server list** (Select)
4. required server (Edit)



NOTE: Your network operator may have pre-installed this number. Do not change this number as it may cause failure of MMS messaging.









Five server settings can be set up in the phone. If you find your server's name under the settings option, select the server and (Edit). If no settings are present, contact your network service provider for these settings.

You can edit the following settings:

- **Server name**
- **IP address**
- **IP port**
- **Homepage**
- **Linger time**
- **Connection (Auto, CSD or GPRS setting)**
- **CSD settings**
- **GPRS settings**

Setting the Send Options

From **Messages**









1.  **Settings**  (Select)
2.  **MMS**  (Select)
3.  **Send Options**  (Select)
4.  required send option  (Select)

The following Send options are available:

Delivery report	Decide whether or not you want confirmation that your message has been delivered. Select On or Off.
Own address	Choose whether or not to let the recipient see your address. Select Show or Hide.
Priority	Set the priority level for your sent messages. Select High, Normal or Low.

Setting the Receive Options

From **Messages**

1.  **Settings**  (Select)
2.  **MMS**  (Select)
3.  **Receive Options**  (Select)
4.  required receive option  (Select)








The following receive options are available when you want to decide how to deal with incoming MMS message:

Validity period	Set the duration that your message is stored at the message centre. Select 1 Hour, 12 Hours, 1 Day, 1 Week or Maximum.
Normal	Select Auto retrieve, Auto reject or Auto defer.
Anonymous sender	Select Auto retrieve or Auto reject.
Advertisements	Select Auto retrieve or Auto reject.
Delivery report	Select Permit or Reject.

Creating an MMS message

Inserting a multimedia file

From **Messages**

1.  **Create**  (Select)
2.  **MMS**  (Select)
3.  (Insert)
4.  required insert option
 (Select)

The following options are available to select the required multimedia file:

- *Insert picture*
- *Insert text*
- *Insert video*
- *Insert sound*
- *Insert page*



MMS Options

From Messages

1. **Create** (Select)
2. **MMS** (Select)
3. (Insert) to add the required media (Select)
4. (Options)
5. required option (Select)



After completing an MMS message, you can select one of the following options:

Send MMS	Send the completed MMS message. Press (Options) to recall the Contacts list, then select the recipient's phone number. Press (Options) once more to send the message.
Store MMS	Store the completed MMS message. Press (Select) to confirm that the message has been saved.
Delete items	Delete the selected text, picture, sound and/or video clip.
Info	Show the page timing, the type of image and/or attached sound files, the message size, and the resolution.
Page timing	Set the time intervals at which each page is sent.
Delete page	Delete the selected page.
Preview page	Preview the selected page.
Preview MMS	Preview the completed MMS message.

Sending an MMS message

From **Messages**

1. **Create** (Select)
2. **MMS** (Select)
3. (Insert) to add the required media (Select)
4. (Options)
5. **Send MMS** (Select)
6. Enter the phone number

OR

- (Options) **Contacts list** (Select) to select the phone number
7. (Options) **Send** (Select)

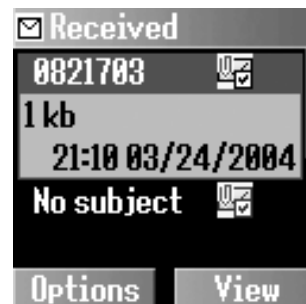
Receiving an MMS message

From **Messages**



1. **Inbox** (Select)
2. **MMS** (Select)
3. **Waiting** (Select)
4. required MMS message (Select) > (Receive) to receive the remainder of the MMS message

OR

- Received** (Select)




The following options are available after selecting the message in the received list in the Inbox:



Options 	View: View the selected MMS message.
	Delete: Delete the selected MMS message.
	Delete all: Delete all MMS messages.
View 	Reply: Reply to the selected MMS message.
	Reply all: Reply to all MMS messages.
	Forward: Forward the selected MMS message.
	Call: Make a call to the sender of the MMS message.
	Info: Show the page timing, the type of image, and/or sound files attached including the message size.
	Extract media: Save the multimedia data attached to the MMS message.
	Extract number: Save the phone number embedded in the MMS message.
	Hyperlink: Jump to the URL embedded in the MMS message.
	View again: Go back to View.

Viewing an MMS message in the Outbox

From Messages

1.  **Outbox**  (Select)
2.  **MMS**  (Select)
3.  **Unsent messages** or **Sent messages**  (Select)
4.  required MMS message  (Options) or  (View)

The following options are available after selecting the message in the unsent or sent messages list in the Outbox:

Options 	View: View the selected MMS message.
	Delete: Delete the selected MMS message.
	Delete all: Delete all MMS messages.
View 	View the selected MMS message

SMS settings

Message centre

From **Messages**

1. **Settings** (Select)
2. **SMS** (Select)
3. **Message centre** (Select)
4. Enter your message centre number in the international dialling format (OK) (see "International dialling" on page 15)

You can also change the following settings:

Protocol	Select the protocol type which specifies the format your SMS message is converted to. Select Standard text, Fax or E-mail.
Validity period	Set the validity period that the SMS message is stored at the Message centre. Select 1 Hour, 12 Hours, 1 Day, 1 Week or Maximum.
Delivery report	Choose whether you want to receive a confirmation when your SMS message has been delivered.
SMS via GPRS	Decide whether or not you want to send your SMS via GPRS.

Creating an SMS message

From Messages

1. **Create** (Select)
2. **SMS** (Select)
3. Enter your text
4. (Options)
5. required option
 (Select)









The following options are available after completing the text entry:

Send	Send your SMS message. Press (Options) to recall the Contacts list, then select the recipient.
Save	Save your SMS message in the Outbox.
Save & send	Save your SMS message, then send the message.
Picture & sound	Attach sound and/or a picture.
Format	Edit your SMS message by inserting new lines, changing the font face, and/or font colour.
User Messages	Select the pre-defined message to insert into your SMS message.

Receiving an SMS message

From **Messages**






1.  **Inbox**  (Select)
2.  **SMS**  (Select)
3.  required SMS message  (Options)

You can select one of the following options when you want to decide how to deal with the incoming SMS message:

View	View the selected SMS message.
Delete	Delete the selected SMS message.
Reply	Reply to the selected SMS messages.
Forward	Forward the selected SMS message.
Edit	Edit or add text, add pictures, and/or sounds.
Delete all	Delete all SMS messages.
Extract number	Save the phone number embedded in the SMS message.
Hyperlink	Jump to the URL embedded in the SMS message.

Viewing an SMS message in the Outbox

From **Messages**

1.  **Outbox**  (Select)
2.  **SMS**  (Select)
3.  required SMS message  (Options)


Select one of the following options when you want to decide how to deal with the outgoing SMS message:

View	View the selected SMS message.
Delete	Delete the selected SMS message.
Forward	Forward the selected SMS message.
Edit	Edit or add text, add pictures, and/or sounds.
Delete all	Delete all SMS message.
Extract number	Save the phone number embedded in the SMS message.
Hyperlink	Jump to the URL embedded in the SMS message.

User Messages

You can edit the User Messages, then save them for later use.

From **Messages**

1.  **User Messages**  (Select)
2.  required message  (Select)
3. Edit the message  (Options)
4.  **Save & Send** or **Save**  (Select)

Memory status

From **Messages**

1.  **Memory status**  (Select)
2.  **MMS or SMS**  (Select)








Memory status shows the free memory space and the used memory space:

- **MMS: max. 3 MB**
- **SMS: max. 100 spaces (SIM dependent)**

NOTE: This function is SIM dependent.

Connectivity

From **Messages**

1.  **Connectivity**  (Select)
2.  **CSD settings or GPRS settings**  (Select)
3.  required setting  (Select)
4. Edit the required information  (Save)

Cell Broadcast

You can receive your favourite information regularly from your service provider.

You need to specify the "topic(s)" of information and the language in which you wish to receive this information.

To receive the broadcasts, "Read Messages" must be on.

Auto display

In Idle mode, the latest information message is displayed on your phone automatically.

From **Messages**

1.  **Cell Broadcast**  (Select)
2.  **Auto display**  (Change) > **On/Off**

Receiving messages







To receive messages, you must turn the "Read Messages" on.

From Messages

1.  **Cell Broadcast**  (Select)
2.  **Read Messages**  (Change) > **On/Off**

Reading a Cell Broadcast message

From Messages










1.  **Cell Broadcast**  (Select)
2.  **Message List**  (Select)
3.  (Next) or  (Back) to select the available topic

NOTE: This function will depend on your network service operator.

Topic list




You can receive messages on specific topics from your network service operator.

From Messages

1.  **Cell Broadcast**  (Select)
2.  **Topic list**  (Select)
3.  **Current**  (Select)
4. < **Add topics** >  (Select)
5.  required topic  (Select)

OR

You can delete the required topic in step 5.

1.  required topic  (Select)
2.  **Delete**  (Select)

User defined topic

You can add your favourite topics to the user-defined topic list.

From Messages

1. **Cell Broadcast** (Select)
2. **Topic list** (Select)
3. **User defined** (Select)
4. **< New entry >** (Select)
5. Enter message ID (OK)
6. Enter name (OK)

Languages

You can set the language of the message you receive.

From Messages

1. **Cell Broadcast** (Select)
2. **Languages** (Select)
3. (Options)
4. **Insert or Add to end** (Select)
5. required language (Select)

OR

You can remove a language in step 4.

1. required language (Select)
2. **Delete** (Select)

> *Insert adds a required language to the top of the list whereas Add to end adds the language to the end of the list.*

Phone Menu

Phone Menu (or STK)*



Call Service

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Call Diverts

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Security

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Network

<i>Auto network</i>	99
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*STK (SIM Tool Kit) is SIM dependent.

Call Service

Time/Charges

From **Phone Menu**

1.  **Call Service**  (Select)
2.  **Time/Charges**  (Select)
3.  **Last call, All voice calls or Cost left**  (Select)







Last call	Display the duration of the last call.
All voice calls	Display the total duration and the units of all the voice calls.
Cost left	Display the remaining units.

NOTE: Time/Charges is SIM dependent.

Call waiting

If Call waiting is switched on, a second call can be received. Activate this function before making a multi-party (conference) call.

From **Phone Menu**

1.  **Call Service**  (Select)
2.  **Call waiting**  (Select)
3.  **Set, Clear or Status check**  (Select)

NOTE: Call waiting is network dependent.

Withhold ID

This function allows you to prevent showing your name and/or number to the calling party.

From **Phone Menu**

1.  **Call Service**  (Select)
2.  **Withhold ID**  (Select)

NOTE: When checking the status, the phone must be registered to a network.

NOTE: Withhold ID is network dependent.

Caller's ID

This function allows you to display the caller's name and/or number on your display.

From **Phone Menu**

1.  **Call Service**  (Select)
2.  **Caller's ID**  (Select)

NOTE: When checking the status, the phone must be registered to a network.










Charge settings

NOTE: The duration of one unit may vary between peak and off-peak times. Call charges can be calculated accordingly. However, the actual tariffs charged by your service provider may not be reflected in the calculation.

Currency:

Firstly, "Personal rate" must be entered. This is the cost that the service provider charges for one unit of call time.

From **Phone Menu**












1.  **Call Service**  (Select)
2.  **Charge settings**  (Select)
3.  **Currency**  (Select)
- > *The current setting is displayed.*
4.  (Edit)
5. Enter the PIN2 code  (OK)
6. Enter currency units (max. 3 characters)  (Save)

NOTE: This function is SIM dependent.

Personal rate:

You can set your personal rate.

From **Phone Menu**

1.  **Call Service**  (Select)
2.  **Charge settings**  (Select)
3.  **Personal rate**  (Select)
- > *The current setting is displayed.*
4.   (Edit)
5. Enter the PIN2 code  (OK)
6.  Enter your personal rate  (Save)

NOTE: This function is SIM dependent.

Max cost:

You can set the maximum cost of calls allowed.

From **Phone Menu**

1. **Call Service** (Select)
2. **Charge settings** (Select)
3. **Max cost** (Change)
- > *The current setting is displayed.*
4. (Edit) > Enter the PIN2 code (OK)
5. (Set) > **On/Off**
6. Enter credit limit (Save)

NOTE: This function is SIM dependent.

Auto display:

In idle mode, the cost of the latest incoming call is displayed on your phone automatically.

From **Phone Menu**

1. **Call Service** (Select)
2. **Charge settings** (Select)
3. **Auto display** (Change) > **On/Off**

Line

You can set either Line 1 or Line 2 as your service dialling number.









From **Phone Menu**

1. **Call Service** (Select)
2. **Line** (Select)
3. **Line 1 or Line 2** (Select)

NOTE: This function is SIM dependent (your SIM must support CPHS to use this function).

Call Diverts

From **Phone Menu**

1.  **Call Diverts**  (Select)
2.  required circumstance to initiate the divert  (Select)
3.  **Set, Clear or Check status**  (Select)
4. Enter the phone number to divert to 
 - > Enter the voice mail centre number if you want incoming voice calls to be diverted to the voice mail centre.
 - > When a divert situation is enabled, the divert icon (→) is displayed.
 - > When updating or checking the status of call diverts, the phone must be registered to a network ().

All voice calls	Divert all incoming voice calls.
Not reachable	When you are not in a coverage area, divert incoming voice calls.
No reply	If you do not answer the phone, divert incoming voice calls.
Busy	When a call is in progress, divert incoming voice calls.
Status check	Check the current Call Diverts status.
Cancel all	Cancel all Call Diverts settings.

Voice calls can be diverted to voice mailbox or to a number that you specify.

Security

Call bar

Call barring restricts certain outgoing and/or incoming calls using a password supplied by your service provider. When updating/ checking the status of Call bar, the phone must be registered to a network.

From **Phone Menu**

1. **Security** (Select)
2. **Call bar** (Select)
3. required setting (Select)
4. **Set, Clear or Check status** (Select)
5. Enter the required password (Select)

All outgoing	All outgoing calls are barred.
Outgo int'l	International outgoing calls are barred.
Out. int'l x home	International outgoing calls except to your home country are barred.
All incoming	All incoming calls are barred.
When roaming	All international incoming calls when roaming outside the home PLMN are barred.
Status check	Call bar status is displayed.
Cancel all	Cancel all Call bar settings.
Password	Change Call bar password.

Codes

Change phonecode:

The phonecode is used for the SIM lock, which protects the phone from being used with a SIM other than yours.

From **Phone Menu**

1. **Security** (Select)
2. **Codes** (Select)
3. **Change phonecode** (Select)
4. Enter a new phonecode (OK)
5. Enter the new code to verify (OK)

NOTE: If the phonecode is entered incorrectly 10 times, the phone will cease to operate permanently. If you change the phonecode from the second time on, you must enter the previous phonecode first, then enter the new phonecode twice.

PIN Control:

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

From **Phone Menu**










1. **Security** (Select)
2. **Codes** (Select)
3. **PIN Control** (Change)
4. Enter the PIN number (OK)
5. (Change) Set to either enable or disable the PIN
6. (OK)

NOTE: If the PIN code is entered incorrectly 3 times, the PIN will be blocked. To unblock the PIN, you must enter your PUK code. If you enter an incorrect PUK code 10 times, your SIM will be blocked permanently.

Changing PIN/PIN2:

You must enable the PIN before changing the code.

From Phone Menu








1.  **Security**  (Select)
2.  **Codes**  (Select)
3.  **Change PIN or Change PIN2**  (Select)
4. Enter the current code  (OK)
5. Enter the new code  (OK)
6. Enter the new code to verify  (OK)

NOTE: To enter the PUK code for your PIN, enter **05#. You will then be prompted to enter the PUK code. Follow the on-screen instructions. To enter the PUK2 code for your PIN2, enter **052#. You will then be prompted to enter the PUK2 code. Follow the on-screen instructions. If the PUK/PUK2 code is entered incorrectly 10 times, the phone will cease to operate permanently. All information stored in the SIM will be lost and the SIM will need to be replaced. Contact the service provider for more details.

Fixed dial

The Fixed dial feature allows you to limit your outgoing calls to a certain set of numbers saved in FDN, which is located in your SIM. When this function is on, only the Fixed dial numbers can be dialed, and any attempt to call any other number will fail. To enter Fixed dial numbers, see page 48.

From Phone Menu

1.  **Security**  (Select)
2.  **Fixed dial**  (Select)
3. Enter the PIN2 code  (OK)
4.  (Change)
5.  (OK)

- *When the fixed dial is on, any manually dialled phone numbers must be the same as the numbers in the fixed dial store, otherwise the call cannot be made.*
- *A phone number may be stored, edited or deleted. In this case, you will be prompted for your PIN2 code.*








NOTE: If the PIN2 code is entered incorrectly 3 times, the PIN2 will be blocked. To unblock the PIN2, you must enter your PUK2 code. If you enter an incorrect PUK2 code 10 times, your SIM will be blocked permanently.

NOTE: Fixed dial is SIM dependent.

SIM lock

Once you enable the SIM lock, you will be prompted to enter your phonecode when you switch on the phone with a different SIM inserted.

From Phone Menu

1.  **Security**  (Select)
2.  **SIM lock**  (Select)
3. Enter the phonecode  (OK)
4.  (Set) to set the SIM lock on/off
5.  (OK)

NOTE: You are advised to write down your phonecode. If you forget your phonecode, you will need to contact your service provider to unlock the SIM.





NOTE: This function is SIM dependent.

Network

Network settings

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

From **Phone Menu**

1.  **Network**  (Select)
2.  required network  (Change) > **On/Off**

Auto network	Allow the phone to reselect a new network automatically in order to maintain optimum network availability. Set Auto network On or Off.
New network	Manually select a network that is available in your current location.
Network list	The network list is used when the Auto network is on. The location numbers in the Network list show the search priority.
Band	Choose a network band: 900/1800, 900/1900, 900, 1800 or 1900MHz.

NOTE: This function is SIM dependent.

Records Menu

Records



Last dialled	100
Answered	100
Unanswered	100
Delete records	101

Last dialled/Answered/Unanswered number

Recently dialled phone numbers will be stored in Last dialled (max. 50).

If an incoming call with Caller's ID is answered, the number will be stored in Answered (max. 50).

If an incoming call with Caller's ID is not answered, the number will be stored in Unanswered (max. 50).

From **Records**







1. **Last Dialled, Answered or Unanswered** (Select)
OR
In idle mode, to view the last dialled numbers directly
2. required phone number you wish to redial

The following options are available when you select the required number:

- **Save**
- **Delete**
- **Delete all**

Deleting the records

From **Records**

1.  **Delete records**  (Select)
2.  **Delete last dialled**  (Select)
“Delete dialled calls?” is displayed.
3.  (Yes) or  (No)

You can select one of the following options in step 2:

- *Delete answered*
- *Delete unanswered*
- *Delete all*

Applications Menu

Applications



Games	103
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Notes	108
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Currency	<i>Rate setting</i> 112 <i>Rate computing</i> 112
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Games

From Applications

1. **Games** (Select)
2. required game (Select)

See "Games Menu" on page 53 for details.

Calendar

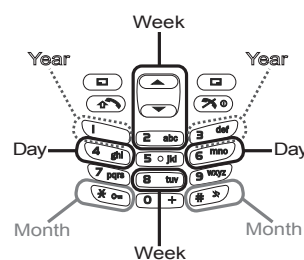
Creating a reminder

You can organise your calendar to remind you of a personal event, such as a holiday period or birthday. You need to set the clock, day and time before entering anything in the calendar.



From Applications

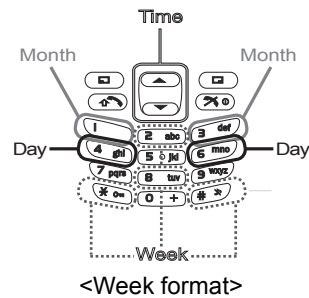
1. **Calendar** (Select)
2. (Options) to select **Week** or **Month** format (Select)
3. Press keys , , , , , , , , , , , , , , , to move the cursor , , and to the desired day. (Options) > **Agenda** (Select)



<Month format>

4. <New entry> (Select)
5. (Change) **Memo, Call** or **Meeting**
6. Enter the description
7. (Change) **Activate** or **Deactivate**
8. (Change) **Once, Daily, Weekly, Monthly** or **Annually**
9. Enter the start date
10. Enter the start time
11. Enter the end date
12. Enter the end time (Save)

Ensure that calendar settings will not contravene any regulations by switching on automatically when in an aircraft, medical facility, etc. (see "Introduction" on page 1).



Viewing the reminder









From Applications



1. **Calendar** (Select)
2. (Options) to select **Week** or **Month** format (Select)
3. **When Month format is selected:**
Select a day marked in green by using the keys (, , , , , , , , , and)
 (Options) > **Agenda** (Select)



When Week format is selected:


The time line marked in blue corresponds to a period of time that you have set as an agenda.

Select a day by using the keys

(, , ,  abc,  def,  ghi,  mno and  tuv)

When the cursor reaches the required scheduled day, press  or  to show what time the event starts and ends.

 (Options) >  **Agenda**

 (Select)

4.  required schedule  (Options)

5.  **View**  (Select)

Mar 2004 W12						
2.22		<--->			2.29	
	Mo	Tu	We	Th	Fr	Sa Su
16						
18						
20						
22						
24						
Options				Back		

You can also select one of the following options in step 5:

- **Deactivate**
- **Edit**
- **New entry**
- **Delete**
- **Delete all**
- **Capacity**

Scheduler

Creating a schedule

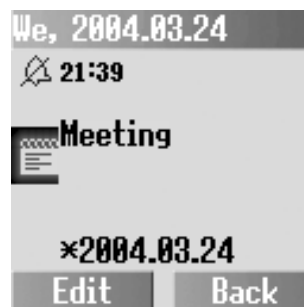
From **Applications**

1. **Scheduler** (Select)
2. **<New entry>** (Select)
3. (Change) **Memo, Call or Meeting**
4. Enter the description
5. (Change) **Activate or Deactivate**
6. (Change) **Once, Daily, Weekly, Monthly or Annually**
7. Enter the start date
8. Enter the start time
9. Enter the end date
10. Enter the end time (Save)

Viewing the schedule







From **Applications**

1. **Scheduler** (Select)
2. required entry (Options)
3. **View** (Select)











Editing the schedule

From Applications

1.  **Scheduler**  (Select)
 2.  required entry  (Options)
 3.  **Edit**  (Select)
- > To edit the schedule, please see step 3~10 in "Creating a schedule" on page 106 for details.







Deleting schedule entries

From Applications

1.  **Scheduler**  (Select)
2.  required entry  (Options)
3.  **Delete** or **Delete all**  (Select)
4. **"Delete entry?"** or **"Do you want to delete all?"**
 (Yes) or  (No)

Capacity

From Applications

1.  **Scheduler**  (Select)
 2.  required entry  (Options)
 3.  **Capacity**  (Select)
- > You can view the maximum number of entries and the remaining number of entries available.

Notes

You can enter text to remind yourself of special events

From **Applications**

1. **Notes** (Select)
2. **<New entry>** (Select)
3. Enter text
4. (Options) **Save, T9 input, Insert new line, Clear text or Send** (Select)

> You can send your note as an SMS message.

Clock

Clock settings

Display time:

You can show the time on the display in Idle mode.

From **Applications**

1. **Clock** (Select)
2. **Settings** (Select)
3. **Display time** (Change) > **On/Off**

Time zone:

Before setting the time and date, set the time zone of your region. When travelling abroad, your home time can be changed to your destination time.









From **Applications**

1. **Clock** (Select)
2. **Settings** (Select)
3. **Time zone** (Select)
4. required region (Select)
5. **"Daylight saving?"** is displayed.
5. (Yes) or (No)
6. **"Set this city to local"** (OK)

Time & date:

You can set the time and date to be shown on the display when in Idle mode.









From Applications

1.  **Clock**  (Select)
2.  **Settings**  (Select)
3.  **Time & date**  (Select)
4.  (Edit) Enter the date and the time  (Save)

Date format:

You can select the desired display format for the date.









From Applications

1.  **Clock**  (Select)
2.  **Settings**  (Select)
3.  **Date format**  (Select)
4.  required format  (Select)

Time format:

You can select the desired display format for the time.

From Applications

1.  **Clock**  (Select)
2.  **Settings**  (Select)
3.  **Time format**  (Change)
4.  **12 Hours or 24 Hours**  (Select)

Alarm

You can set the alarm to sound or vibrate when the set time is reached.

From **Applications**

1. **Clock** (Select)
 2. **Alarm** (Select)
 3. (Options) > **Edit**
 (Select)
 4. Enter the time (24 hour clock)
 5. (Change) select a day of the week
 6. (Change) Activate or Deactivate
 7. Enter the description
 (Save)
- The alarm set indicator appears on the idle display.
 - If you are on a call, the phone will vibrate without sound.



Ending the alarm:

Press any key or (Off) to end the alarm

OR

(Pause) to pause the alarm and start again after 5 minutes

NOTE: Even if the phone is switched off, when the alarm is set on, the phone will switch on automatically and start the alarm.

Power on/off time

The phone can be set to turn itself on/off automatically at a specified time using the power on/off time feature.

From Applications

1. **Clock** (Select)
2. **Power on time** or **Power off time** (Change)
3. (Change) **Automatic** or **Manual**
4. Enter the time (24 hour clock) (Save)

Calculator

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

From Applications

1. **Calculator** (Select)
2. Enter a number (max. 9 digits)
 - > If a decimal point is required, press . If a minus sign is needed, press .
3. Select the arithmetic operation
4. Enter a number (max. 9 digits)
 - > If is used to select another arithmetic operation, an intermediate calculation will be performed and the result will be displayed.
5. (=) to calculate



Currency

Rate setting

The currency converter enables you to convert from/to a home currency using a conversion rate that you enter. Before beginning conversions, choose a base currency and enter the conversion rate. The base currency rate is set to 1.

From Applications

1. **Currency** (Select)
 2. **Rate setting** (Select)
 3. Enter the conversion rate next to the red arrow
 (Compute)
 4. (Save)
- You can change the base currency by pressing .
- If a decimal point is required, press .

Rate computing

From Applications

1. **Currency** (Select)
 2. **Rate computing** (Select)
 3. Enter the amount of your home currency to convert into the foreign currency (Convert)
- You can also enter the amount of the foreign currency to convert into your home currency if you change the base currency by pressing .
- If a decimal point is required, press .

Melody composer

Composing a melody

From **Applications**

1. **Melody composer**
 (Select)
2. required melody
 (Options)
3. **Melody composer**
 (Select)
4. required track (Select)
5. Compose your melody – see the notes chart below (Options)
6. **Save** (Select)



Using the following table as a reference, enter notes (from the choice of low, middle and high), rests, and duration of each, to generate your composition. Main Track and Sub Tracks are played together when you play the composed music.

Key	pqrs	tuv	wxyz	+		
Func	B	Rep.	Dotted note	Rest	Duration	Low, Low #, Middle, Middle #, High, High #

Key		abc	def	ghi	jkl	mno
Func	C	D	E	F	G	A

Before you save the composed melody, you can change the tempo, and/or the instrument to play the melody.

Playing the composed melody

To play the composed melody before saving:

 (Options) >  **Play**  (Select)




Changing the tempo

To change the tempo of the composed melody:

 (Options) >  **Tempo**  (Select)

Selecting the instrument

To select the instrument to play the composed melody:

 (Options) >  **Select instrument**  (Select)

Phone menu


This menu is available under the Applications Menu if your SIM card provides STK services.

To use this menu, please refer to "Phone Menu" on page 88.

Troubleshooting

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 charging indicator does not light, the battery level indicator does not appear and the phone cannot be switched on when charging.	The battery is not attached to the phone, or when the battery has been deeply discharged, the phone will take a short time until the indicator lights.	Leave the phone charging the battery for a few minutes before the indicator lights and you 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 Fast Travel Charger was switched on.	
	The battery is defective or of the wrong type.	Replace with a new battery.
	The battery temperature exceeds the charging temperature range (too hot or too cold)	Use the battery at room temperature.
Calls cannot be made.	The phone is locked.	Unlock the phone.
	Outgoing calls are barred.	Disable outgoing call barring or barred dialling.
	The phone is not registered to a network.	Move to a coverage area and operate your phone after it has registered with a network.
Calls cannot be made from Fixed Dial Store.		Check whether your SIM supports Fixed dial. Check if the Fixed dial is switched on. Check whether the phone number is stored in Fixed Dial.

Problem	Cause	Remedy
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 to 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  is displayed – move to a coverage area and operate your phone when the antenna symbol is displayed.
Phone numbers cannot be recalled from Contacts list.	The phone is locked.	Unlock the phone.
	Phone number has been restricted.	Switch off restriction.

Important Error Messages

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

Please insert SIM card	SIM card is not inserted, or is not inserted correctly. Please insert the SIM card correctly.
New codes not same	When you change your password, you must enter the new password twice to confirm. The two codes you entered are not the same. Enter the same code twice.
Password invalid!	The password that you entered is not valid. Enter the correct password.
Can't access network	The service network you selected manually is inaccessible. Please contact your service provider.
Unable to select network	The service network you selected manually refuses your access. Please contact your service provider.
No service	There is no network within range or the received signal is weak. Please move to an area which has a stronger signal.
PIN blocked! Please enter PUK	You entered your PIN incorrectly three times in a row. To unblock it, please enter PUK.
PIN2 blocked! Please enter PUK2	You entered your PIN2 incorrectly three times in a row. To unblock it, please enter PUK2.
New PIN not accepted	Your new PIN code is not accepted. Please try again.
New PIN2 not accepted	Your new PIN2 code is not accepted. Please try again.
Incorrect entry!	You entered your PIN or PIN2 code incorrectly. Enter the code correctly.
Entries do not match!	When you change your password, you must enter the new password twice to confirm. The two codes you entered are not the same. Enter the same code twice.
SIM card error	Make sure the SIM card is inserted correctly. Clean the SIM card with a dry cloth or check if it is damaged. Contact your service provider.
Function unsupported	The function you selected is not supported by your service provider. Please contact your service provider.
Invalid password	The password that you entered is not valid. Please enter the correct password.
Not available	The function you selected is not supported by your service provider. Please contact your service provider.
Service not available	The function you selected is not supported by your service provider. Please contact your service provider.
Wrong PUK!	You entered the wrong PUK. Please enter the correct one.

SIM full! Please delete old message!	The SIM storage area for SMS message is full. Please delete old messages.
SIM memory full! Continue?	The SIM storage area is full. If you continue, data may be lost. Please delete old records.
Phone memory full! Continue?	The data storage area is full. If you continue, data may be lost. Please delete old records
SIM service not support	The SIM function you selected is not supported by the service provider. Please contact your service provider.
Unregistered SIM card	Your SIM card is not registered to your service provider. Please contact your service provider.
Authentication failure	Your SIM card is not registered with your service provider. Please contact your service provider.
Blocked	Your SIM card is blocked. Please contact your service provider.

Glossary of Terms

ADN	Abbreviated Dialling Number. Used for frequently called numbers.
APN	Access Point Name. Directs the user to the gateway or the required service.
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.
FDN	Fixed Dial Number. Used to restrict outgoing calls to a certain set of numbers.
GPRS	General Packet Radio Service. A GSM transmission technique that transmits and receives data in packets rather than setting up a continuous channel. It makes very efficient use of available radio spectrum and users pay only for volume of data sent and received.
GSM	Global System for Mobile communications. The name given to the advanced digital technology that your phone uses.
MMS	Multimedia Message Service. This service allows sending/receiving messages consisting of text, sounds, images, and video clips.
Network Operator	The organisation responsible for operating a GSM network.
Password	Used for the control of Call bar. Supplied by your service provider.
PIN	Personal Identification Number used for SIM card security. Supplied by your service provider. If the PIN is entered incorrectly 3 times, the PIN will be blocked.
PIN2	Personal Identification Number used for the control of Fixed Dial Store and Call Charge metering. If the PIN2 is entered incorrectly 3 times, the PIN2 will be blocked. The PIN2 is supplied by your service provider.
PLMN	Public Land Mobile Network. A network that provides land mobile telecommunications services.
PUK/PUK2	PIN/PIN2 Unblocking Key. Used to unblock the PIN/PIN2 code. Supplied by your service provider. If the PUK/PUK2 is entered incorrectly 10 times, the PUK/PUK2 will be blocked.
Registration	The act of logging on to a GSM/GPRS network. This is usually performed automatically by your phone.
Roaming	The ability to use your phone on networks other than your home network.
SDN	Service Dialling Number. This number enables you to access special services provided by your network operator, such as customer support, emergency services, etc.

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 SMS messages. Supplied by your service provider.
SMS	Short Message Service. A basic mail system used for cellular phones. This service allows sending/receiving of short text messages.
WAP	Wireless Application Protocol. The communication standard which enables you to download resources from the Internet to your phone.

Cautions

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U. S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-worn operation

This device was tested for typical body-worn operations with the back of the phone kept 1.5cm from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 1.5cm separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

Specifications

Bands Supported.....	GSM 900 Class 4 GSM1800 Class 1 GSM1900 Class 1
Standby Time*	Up to 200 hours
Talk Time*	Up to 7 hours
Temperature Range	
Charging	+5°C – +35°C
Storage	-20°C – +60°C
Weight	92 g (including battery)
Dimensions	
Height	92 mm
Width	48 mm
Depth	21.6 mm
Supply Voltage	3.7 V (780 mAh Li-ion)
Antenna	Internal
Charging Time**	Up to 150 min
SIM Type	3 V only
Contacts List Memory.....	500 entries + SIM
Animation Themes	2
User-composed Melodies.....	5
Games	3
Backlight Colour	White
Ringtones	Preset: 20 (Varies depending on Data Folder)
Scheduler	Up to 50 entries
Alarms	4
Graphics Formats Supported	GIF87a, GIF89, JPEG, WBMP, BMP, PNG
Graphics Storage Capacity	3 MB (including 700 KB in MMS)
Camera Range	23 cm – ∞

*: Talk and Standby times depend on network conditions, SIM usage and battery condition.

**: Charging time depends on usage and battery condition.

NOTE: Specifications are subject to change without notice.

NOTE: The PIN2 and PUK2 codes are supplied by your service provider.

CP8 Patent

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OpenWave

OpenWave is a pioneer in the mobile data transfer industry, supplying voice and data revenue to the mobile communications sector.



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