



Messaging

From the Messaging menu you can send and receive MMS, SMS and e-mail messages.

The nine menus are as follows:



Settings

- 1 MMS
- 2 SMS
- 3 e-mail



Inbox

- 1 MMS
- 2 SMS
- 3 e-mail



Broadcasts

- 1 Receive
- 2 Message List
- 3 Topics
- 4 Languages



Voice Mail

- 1 Voice Mailbox



Create

- 1 MMS
- 2 SMS
- 3 e-mail



e-mail

- 1 Send/Receive



Data Folders

- 1 My Pictures
- 2 My Sounds
- 3 My Themes
- 4 User 1 - 5



Outbox

- 1 MMS
- 2 SMS
- 3 e-mail



SMS Chat

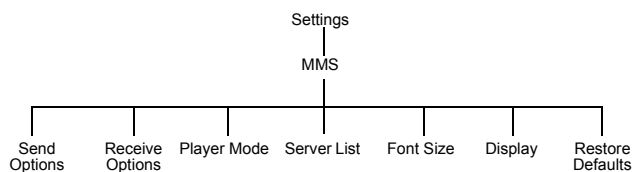
MMS

MMS stands for Multimedia Message Service. With MMS you can attach images and music to text messages. The recipient can play the images and music as a slide show.



Settings

Use **Settings** to set up MMS to suit your requirements.

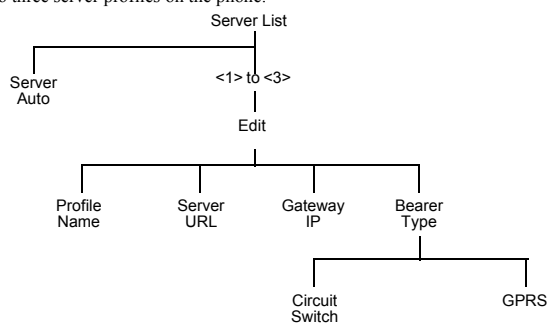


Messaging

Configuring MMS

Note: Your MMS settings may have been pre-configured by your service provider. MMS may not work if you change these settings.

You must configure your MMS before you can send or receive MMS messages. You can create up to three server profiles on the phone.



For **Circuit Switch**, select **Set**, then select **Edit** and set:

- Digital Dial number
- Analog Dial number
- Circuit Type. Select from **Digital** and **Analog**.
- User ID
- User Password

For **GPRS**, select **Set**, then select **Edit** and set:

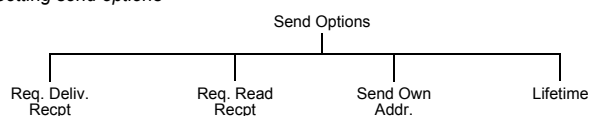
- Access Point Name
- User ID
- User Password
- Authentication. Select from **Normal**, **Encrypted** and **None**.

Menu > Messaging > Settings > MMS

Messaging

Messaging

Setting send options



You set send options to determine what happens to messages that you send.

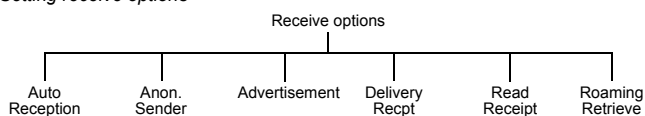
Req. Deliv. Recpt. Decide whether or not you want confirmation that your message has been delivered. Select **Yes** or **No**.

Req. Read Recpt. Decide whether or not you want confirmation that your message has been read. Select **Yes** or **No**.

Send Own Addr. Choose whether or not to let the recipient see your address. You can only show your address if your service provider allows. Select **Show** or **Hide**.

Lifetime. Set the time limit for the lifetime for sent messages. Select **Maximum** or **Manual**. If you select **Manual**, you need to enter the number of hours (1 - 99).

Setting receive options



When you have selected a message type, you can select how you want to deal with it.

Message type	Options
Auto Reception	Auto Retrieve, Ask
Anon. Sender	Accept, Reject
Advertisement	Accept, Reject
Delivery Recpt	Permit, Reject
Read Receipt	Permit, Reject
Roaming Retrieve	Ask, Pending, Off

Setting the player mode

Player Mode determines whether an audio attachment is played automatically, or manually.

- ▶ Select **Player Mode**.
- ▶ Select **Automatic** or **Manual**.

Messaging

Setting the font size

You can set the font size to use in your messages.

- ▶ Select **Font Size**.
- ▶ Select from **Large**, **Standard** and **Small**.

Setting what is displayed

You can decide whether to display the subject or the address in your inbox and outbox.

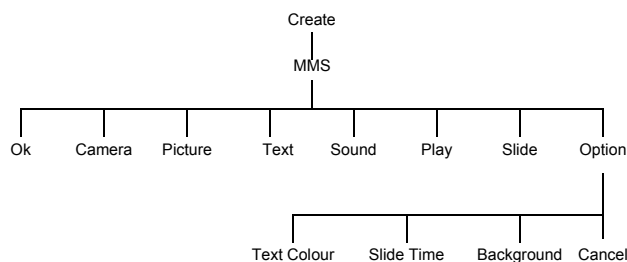
- ▶ Select **Display**.
- ▶ Select **Inbox** or **Outbox**.
- ▶ Select **Subject** or **Address**.

Restoring defaults

To cancel all the options that you have set select **Restore Defaults**.

Creating an MMS message

Use **Create** to create an MMS message.



- ▶ Select **Create > MMS**.
- ▶ Press **○**.
- ▶ Select the item that you want to enter.
- ▶ When your message is complete, select **Ok**.
- ▶ Select **Addr:**.
- ▶ Select **Edit** to enter an address.
- ▶ Enter an address.
- ▶ Select **Subj:**.
- ▶ Select **Edit** to enter a subject.
- ▶ Enter a subject.

Menu > Messaging > Settings > MMS

Menu > Messaging > Create

Messaging

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To send your message, press  or press  and select **Send**.

To save your message press  and select **Save**. Your message is stored in the **Outbox**, so you can send it or edit it later.

You can send a camera image, text, a picture from a data folder and/or a sound from a data folder.

To send a camera image:

- ▶ Select **Camera** as your item in Creating an MMS message.
- ▶ Take a picture.
- ▶ Press  to return to the MMS message.

To send a picture:

- ▶ Select **Picture** as your item in Creating an MMS message.
- ▶ Select a folder.
- ▶ Select the picture.

To enter text:

- ▶ Select **Text** as your item in Creating an MMS message.
- ▶ Enter the text.
- ▶ Select **Ok** or **Cancel**.

To attach an audio file:

- ▶ Select **Sound** as your item in Creating an MMS message.
- ▶ Select a folder.
- ▶ Select the audio file.

User messages

While entering text, you can enter one of the predefined user message in your MMS message:

- ▶ Select **Menu > User Msg**.
A list of the user defined messages is displayed.
- ▶ Select the message you require.
- ▶ Press .

To edit a user message, see Editing user messages on page 41.

Messaging

Retrieving received messages

The messages you receive are stored in the **Inbox**.



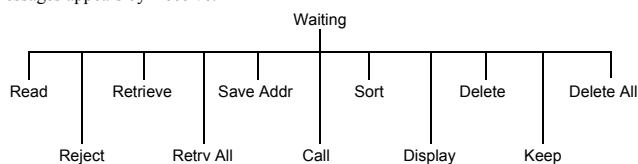
Select **Inbox > MMS**.

If there are messages waiting, a number appears by **Waiting**. You need to retrieve these messages before you can play any audio files attached to them.

Retrieving a message

- ▶ Select **Waiting**.
- ▶ Highlight a message.
- ▶ Press to retrieve the message.

When you have retrieved a message it is available in **Receive**. The number of retrieved messages appears by **Receive**.



When you select a message from the **Waiting** menu, you can choose from:

Read. Displays the message header. Press to retrieve the message.

Reject. Do not retrieve the selected message.

Retrieve. Retrieves the selected message.

Retrv All. Retrieves all waiting messages.

Save Addr. Saves the address of the selected message.

Call. Call the person who sent the selected message.

Sort. Sorts your messages.

Display. Displays the selected message.

Delete. Deletes the selected message.

Keep. Keeps a message for you to retrieve later.

Delete All. Deletes all messages.

Menu > Messaging > Inbox > MMS

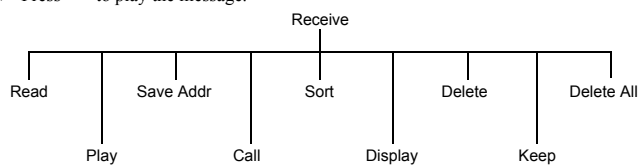
Messaging

Messaging

Reading received messages

Once you have retrieved a message, you can view it and play attached audio files.

- ▶ Select **Receive**.
- ▶ Highlight a message.
- ▶ Press  to play the message.



When you select a message from the **Receive** menu, you can choose from:

Read. Displays the message header.

Play. Plays the message.

Save Addr. Saves the address of the current message.

Call. Call the person who sent the message.

Sort. Sorts your messages.

Display. Displays the selected message.

Delete. Deletes the selected message.

Keep. Keeps a message for you to read later.

Delete All. Deletes all messages.

Viewing your messages status

To see a summary of waiting, received, sent, draft and pending messages select **Memory Status**.

Messaging



Outbox

To access your **Outbox** select **Outbox > MMS**.

From your outbox you can view all your draft, pending and sent MMS messages. You can also see a summary of your memory status.

You can highlight a message, then press  to get the following menu options. The available options depend on whether you are looking at a draft, pending or sent message.

Read. Displays any text in the message.

Play. Plays the message.

Send. Sends the selected message.

Send All. Sends all the messages in the list.

Save Addr. Saves the address of the selected message.

Sort. Sorts your messages.

Display. Displays the selected message.

Delete. Deletes the selected message.

Keep. Keeps a message for you to read later.

Delete All. Deletes all messages.

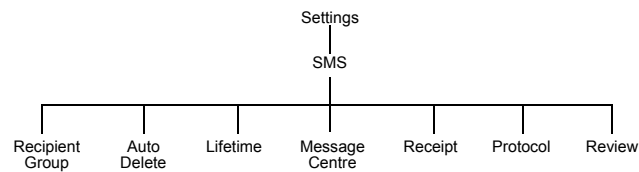
SMS

SMS is usually called text messaging. With text messaging you can send and receive text and images. You can receive, display, edit and send text messages of up to 459 characters to mobile phones on your service provider's network or any network that has a roaming agreement. The actual number of characters available depends on the language you use. You can only send text messages to phones that have text messaging functionality.



Settings

The following functions are all available from **Settings > SMS**.



Menu > Messaging > Outbox

Menu > Messaging > Settings

Messaging

Messaging

Message centre

You must enter the message centre number before you can send text messages.

Note: The message centre number may have been pre-programmed on the SIM.

- ▶ Select **Message Centre**.
- ▶ Enter the message centre number in international dial format (see Making international calls on page 24).

Note: The message centre number is provided by your service provider.

Recipient group

You can preset the destination of text messages. There are five recipient groups. You can store up to ten destinations in each group.

To name or rename a group:

- ▶ Highlight a group number or name.
- ▶ Press **OK**.
- ▶ Select **Rename**.
- ▶ Enter a new name.

To add names to a recipient group:

- ▶ Highlight a group number or name.
- ▶ Press **OK**.
- ▶ Select **Select**.
- ▶ Select **Entry**.
- ▶ Select required name.
- ▶ Select **Recall**.
- ▶ To add another name press **OK**.
- ▶ Select **Entry**.
- ▶ Select required name.
- ▶ Select **Recall**.

When you have added all the names, press **OK**.

Auto delete

You can set this to automatically delete messages. You select from:

Off. Turns off **Auto Delete**.

Received Read. Overwrites the oldest read message.

Received Any. Overwrites the oldest read message or the oldest unread message if there are no read messages.

Messaging

Lifetime

This is the time that your message is stored at the message centre. The message centre keeps trying to deliver the message until the message is delivered, or the **Lifetime** expires.

Receipt

You can choose whether you want to receive a confirmation when your message has been delivered. You select from **Yes**, **No** and **Ask**. If you select **Ask**, the recipient is asked if they want to send a confirmation.

Protocol

The **Message Centre** may be able to convert your message to the format specified by the selected protocol.

Review

You can see how many messages are stored in your SIM or in your phone. You can store up to 15 messages in your SIM and 200 in your phone. If your SIM storage is full or nearly full, you can move messages to your phone storage. To move a message from SIM to mobile:

- ▶ Select **Inbox > SMS**.
- ▶ Highlight the message.
- ▶ Press .
- ▶ Select **Move**.
- ▶ Confirm that you want to move the message from the SIM to your phone.

Creating a text message

Use **Create** to create an SMS message.



- ▶ Select **Create > SMS**.
- ▶ Enter your text.
- ▶ Press .
- ▶ Select **Ok** or **Cancel**.
- ▶ Press  to send the message.
- ▶ Enter the phone number.
- ▶ Press .
- ▶ Select **Ok** or **Cancel**.
- ▶ You are asked '**Request Delivery Confirmation?**' Press .
- ▶ Select **No** or **Yes**.

Menu > Messaging > Settings > SMS

Menu > Messaging

Messaging

Messaging

User messages

You can enter one of the predefined user message in your SMS message:

- ▶ Select **Menu > User Msg.**
A list of the user defined messages is displayed.
- ▶ Select the message you require.
- ▶ Press .

To edit a user message, see Editing user messages on page 41.

Receiving a text message

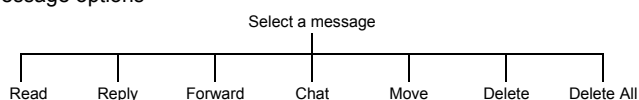
 Indicates that you have received a new message. An exclamation mark (!) on the left of the icon indicates that your message store is full.



Received text messages are stored in your **Inbox**.

Select **Inbox > SMS** to see a list of your received messages.

Message options



Read. Display any text in the message.

Reply. Reply to the person who sent the message.

Forward. Forward the message to someone else.

Chat. Read sent and received messages with another party on one screen.

- ▶ Select **Chat**.
- ▶ Enter a nickname. This can be up to 18 characters long.
- ▶ Send and receive messages.
- ▶ Press  to end the chat.

When you receive a message in chat mode, the text appears above your previous message.

If your phone is not in chat mode when you receive a reply to a chat message, it is received as normal SMS.

If you receive a voice call while you are in chat mode, you can accept the incoming call and return to chat mode at the end of the call.

Only the last sent and received messages are stored. All other messages from the latest chat are automatically deleted.

Move. Move the message to your phone memory.

Delete. Delete the message.

Delete All. Delete all messages.

Messaging



Outbox

To access your Outbox select **Outbox > SMS**.

From your outbox you can view all your sent text messages.

You can select a message, and choose from the following options:

Edit. Edit the message.

Send. Send the message.

Read. Read the message.

Chat. Read sent and received messages with another party on one screen.

- ▶ Select **Chat**.
- ▶ Enter a nickname. This can be up to 18 characters long.
- ▶ Send and receive messages.
- ▶ Press  to end the chat.

When you receive a message in chat mode, the text appears above your previous message.

If your phone is not in chat mode when you receive a reply to a chat message, it is received as normal SMS.

If you receive a voice call while you are in chat mode, you can accept the incoming call and return to chat mode at the end of the call.

Only the last sent and received messages are stored. All other messages from the latest chat are automatically deleted.

Create. Create another text message.

Move. Move the message to your phone memory.

Delete. Delete the message.

Delete All. Delete all messages.



Broadcasts

Broadcasts are messages sent on a variety of subjects by your service provider.

Topics

Before you can receive broadcasts, you need to specify the topics of information that you want to receive.

- ▶ Select **Topics**.
- ▶ Press .
- ▶ Select **Insert**.
- ▶ Use  to page through the list of available topics.
- ▶ Press  to select a topic.

If you want to specify more than one topic, keep paging through the topics and select all the ones that you want.

Menu > Messaging

Menu > Messaging > Broadcasts

Messaging

Messaging

Turning broadcasts on and off

If you are busy, or do not want to receive broadcasts for a while, you can turn them off, and turn them on again later.

- ▶ Select **Receive**.
- ▶ Select **On** or **Off**.

Message list

The **Message List** stores the last broadcast messages that you received. You can delete messages from here.

Languages

You can change the language for your broadcast messages.

- ▶ Select **Language**.
- ▶ Select the language from the list.



SMS chat

With **SMS Chat** you can read sent and received messages with another party on one screen.

Use this to start a call in chat mode.

- ▶ Enter the phone number you want to chat with.
- ▶ To enter a number using the keypad:
Enter the number, then select **Menu > Ok**.
- ▶ To select a number from the contacts list:
Press to go to the **Contacts List**.
Select the contact.
Select **Recall**.
Confirm the number, select **Menu > Ok**.
- ▶ Enter a nickname. This can be up to 18 characters long.
- ▶ Select **Menu > Ok**.
- ▶ Enter your message.
- ▶ Select **Menu > Send**.
- ▶ Press to end the chat.

You can also enter a user message in your chat.

- ▶ Select **Menu > User Msg**.
A list of the user defined messages is displayed.
- ▶ Select the message you require.
- ▶ Press .

To edit a user message, see Editing user messages on page 41.

Messaging**e-mail**

You can send e-mails via the mail server of an Internet Service Provider (ISP) that supports POP3/STMP protocols.

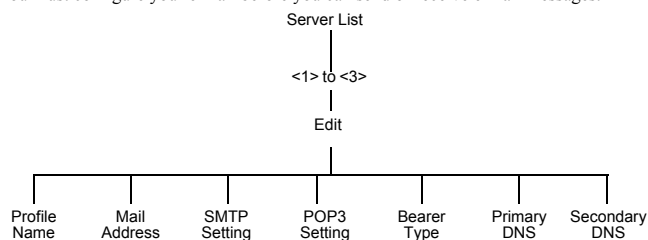
Before you can use the Internet e-mail feature your SIM must be data enabled, and you must have a contract with an ISP.

**Settings**

The following functions are all available from **Settings > e-mail**.

Server list

You must configure your e-mail before you can send or receive e-mail messages.



Use the following method to set the server options:

- ▶ Select the required option.
- ▶ Enter the option details or select the required setting.

Repeat these steps, until you have set all the required options.

Server profile option	Settings	Options	Options
Profile Name	Name for account, e.g. ISP name.		
Mail Address	Reply to address for sent e-mails		
SMTP Setting	SMTP server User ID Password Authentication	On Off	

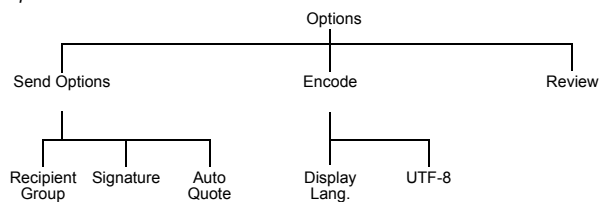
Messaging

Messaging

Menu > Messaging > Settings > e-mail

Server profile option	Settings	Options	Options
POP3 Setting	POP3 server User ID Password Mail delivery	Leave Msg Delete Msg	
Bearer Type	Circuit switch GPRS	Digital Dial # Analogue Dial # Circuit Type User ID User Password AccessPointName User ID User Password Authentication	Normal Encrypted None
Primary DNS	Name Server at ISP (Normally set automatically unless ISP gives details)		
Secondary DNS	Name Server at ISP (Normally set automatically unless ISP gives details)		

Options



Recipient Group. Use to preset the destination of e-mail messages. There are five recipient groups. You can store up to ten destinations in each group.

Signature. Use this to insert essential information in outgoing messages, for example, disclaimer.

Auto Quote. Use this to attach text from the message that you are replying to. Set to **On** or **Off**.

Messaging

Creating an e-mail message



Use **Create** to create an e-mail message.

- ▶ Select **Create > e-mail**.
- ▶ Highlight **To**, **Cc** or **Bcc**.
- ▶ Press  to select an entry from your **Contacts List**.
Or
Press  and select **Edit**. Select **Menu > Add**, then enter the e-mail address.
- ▶ Repeat the previous steps until you have added all the recipients.
- ▶ Highlight **Subj** to enter a subject line.
- ▶ Select **Edit**.
- ▶ Enter text.
- ▶ Highlight **Message** to enter your message.
- ▶ Select **Edit**.
- ▶ Enter your text.
- ▶ Select **Menu > Ok**.
- ▶ To attach a file, highlight **File**.
- ▶ Select **Edit**.
- ▶ Select **Menu > Add**.
- ▶ Select the required folder.
- ▶ Select the required file.

You can also enter a user message in your e-mail by:

- ▶ Select **Menu > User Msg**.
A list of the user defined messages is displayed.
- ▶ Select the message you require.
- ▶ Press .

To edit a user message, see Editing user messages on page 41.

Menu > Messaging > Create

Messaging

Messaging

Sending and receiving e-mail messages

You can send and receive e-mails at the same time. This sends any unsent messages in your **Outbox**, and downloads any messages that are in your server mailbox to your phone's **Inbox**.



You access this function from **e-mail**.

- ▶ Select **e-mail** > **Send/Receive**.
- ▶ Agree to send any unsent messages in your **Outbox**.
- ▶ Agree to download any new messages that are on the mail server to your **Inbox**. The number of messages appears next to the **Inbox**.

Note: If no messages are sent or received and the connection is left idle, it terminates after 60 seconds.

Reading an e-mail message



Your received e-mail messages are stored in your **Inbox**.

- ▶ Select **Inbox** > **e-mail**.
- ▶ Select a message.
- ▶ Select **View**.

Message status

The following icons indicate the status of a message:



Read or sent message.



Unread or unsent message.



Message is locked.



Broken message that is too long for the phone, or the message contains an attachment.

Messaging

Received messages options

With the message displayed, press .

Select from:

Reply. Send a reply to the sender.

Reply to All. Send a reply to all the people who were sent the message.

Forward. Send the message to another person.

Sort. Sort all the messages in your inbox.

Contacts List. Save the sender's address in your Contacts List.

Protect. Stop the message being overwritten when your **Inbox** is full.

Delete. Deletes the message.

Delete All. Delete all the messages in your **Inbox**.

Review. View details of the message, for example, file size (Kb).

Managing your inbox and outbox

When your **Inbox** or **Outbox** is full, any new messages that you create or receive will overwrite existing messages, starting with the oldest. To prevent messages being overwritten you should regularly clean up your lists, deleting any messages that you no longer require.



Voice mail

Before you can use voice mail, you may need to contact your service provider.

- ▶ Select **Voice Mailbox**.
- ▶ Press .
- ▶ Select **Recall**.
- ▶ Press  to dial the number.

Follow the instructions given by your service provider at this number.



Data folders

You can access your **Data Folders** directly from the top level menu. For details on the Data Folder options, see Data folders on page 90.

Menu > Messaging > Inbox > e-mail

Menu > Messaging

Messaging



Data folders

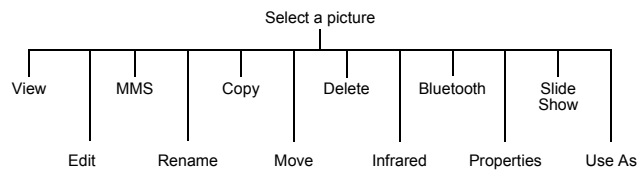
Use data folders to store your pictures, sounds and themes. There are three predefined folders for **My Pictures**, **My Sounds** and **My Themes**. These may contain preloaded files. There are five empty folders. You can customise any of these folders. The maximum capacity of **Data Folders** is 4Mb, and it can hold up to 900 files. The maximum file size is 100kB.

Note: You cannot change or forward wallpaper and ring type files that you have downloaded from the Internet.

Changing the SIM does not affect the contents of the data folders.

The phone can only display files that are in one of the supported formats. see Specifications on page 126 for the supported formats.

Pictures



Viewing stored pictures

- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture that you want to view.
- ▶ Press , or press  and select **View**.

Data folders

Editing stored pictures

From the **Edit** menu you can change the **Brightness**, **Effect**, **Frame**, **Size**, **Format** and **Trim** of a stored picture. When you have edited the picture, press  to save your changes.

- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture that you want to edit.
- ▶ Select **Edit**.
- ▶ Press .

Note: You cannot use this for predefined wallpaper files.

For information about these options, see Editing the picture on page 68.

Sending a picture by MMS

- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture that you want to send.
- ▶ Press  and select **MMS**.

A new MMS message is opened with the picture already embedded.

Note: You cannot use this for predefined wallpaper files.

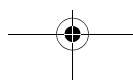
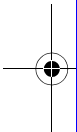
Renaming a picture

- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture that you want to rename.
- ▶ Press .
- ▶ Select **Rename**.
- ▶ Remove the existing text using , then enter the new name.

Note: You cannot use this for predefined wallpaper files.

Menu > Messaging > Data Folders > My Pictures

Data folders



Data folders

Copying or moving a picture

- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture that you want to copy or move.
- ▶ Press .
- ▶ Select **Copy** or **Move**.
- ▶ Select the folder to move or copy to.

Note: The default folder is the last one that you copied or moved to.
You cannot use this for predefined wallpaper files.

Deleting a picture

- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture that you want to delete.
- ▶ Press .
- ▶ Select **Delete**.
- ▶ Confirm delete.

Note: You cannot use this for predefined wallpaper files.

Sending a picture via infrared

Set up the devices so that the infrared ports are pointing at each other, and within the effective range of infrared connection.

Ensure that there are no obstructions between the devices.

- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture that you want to send.
- ▶ Press .
- ▶ Select **Infrared**.

Note: You cannot use this for predefined wallpaper files.

Data folders

Sending a picture via Bluetooth®

- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture that you want to send.
- ▶ Press .
- ▶ Select **Bluetooth**.
- ▶ Select the Bluetooth® device that you want to send to.
- ▶ Enter the Bluetooth® passkey provided with your device.

Note: You cannot use this for predefined wallpaper files.

Viewing the image properties

You can see the image name, the date and time that it was created, its size, whether or not it is copyrighted and whether or not you can forward and copy the file.

- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture that you want.
- ▶ Press .
- ▶ Select **Properties**.

Using the picture as your wallpaper

- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture that you want.
- ▶ Press .
- ▶ Select **Use As**.
- ▶ Select **Wallpaper**.

Your wallpaper is updated to use the selected picture.

Using images as a slide show

You can display the images in the folder as a slide show, starting with the current image. Each image displays for five seconds. You can select **Pause** to stop the slide show, and **Cont** to continue with the slide show.

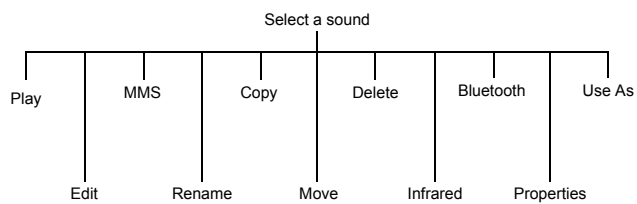
- ▶ Select the folder where your pictures are stored.
- ▶ Select the picture.
- ▶ Press .
- ▶ Select **Slide Show**.

Menu > Messaging > Data Folders > My Pictures

Data folders

Data folders

Sounds



Playing stored sounds

- ▶ Select the folder where your sounds are stored.
- ▶ Select the sound that you want to play.
- ▶ Press , or press  and select **Play**.

Editing stored sounds

- ▶ Select the folder where your sounds are stored.
- ▶ Select the sound that you want to edit.
- ▶ Select **EditMelody**.

See Creating a ring type on page 37, for information on how to edit a sound.

Note: You cannot use this for polyphonic ring types or music files.

Sending a sound by MMS

- ▶ Select the folder where your sounds are stored.
- ▶ Select the sound that you want to send.
- ▶ Press  and select **MMS**.

A new MMS message is opened with the sound already embedded.

Note: You cannot use this for polyphonic ring types or music files.

Data folders

Renaming a sound

- ▶ Select the folder where your sounds are stored.
- ▶ Select the sound that you want to rename.
- ▶ Press .
- ▶ Select **Rename**.
- ▶ Remove the existing text using , then enter the new name.

Note: You cannot use this for polyphonic ring types or music files.

Copying or moving a sound

- ▶ Select the folder where your sounds are stored.
- ▶ Select the sound that you want to copy or move.
- ▶ Press .
- ▶ Select **Copy** or **Move**.
- ▶ Select the folder to move or copy to.

Note: The default folder is the last one that you copied or moved to.
You cannot use this for polyphonic ring types or music files.

Deleting a sound

- ▶ Select the folder where your sounds are stored.
- ▶ Select the sound that you want to delete.
- ▶ Press .
- ▶ Select **Delete**.
- ▶ Confirm delete.

Note: You cannot use this for polyphonic ring types or music files.

Sending a sound via infrared

Set up the devices so that the infrared ports are pointing at each other, and within the effective range of infrared connection.

Ensure that there are no obstructions between the devices.

- ▶ Select the folder where your sounds are stored.
- ▶ Select the sound that you want to send.
- ▶ Press .
- ▶ Select **Infrared**.

Note: You cannot use this for polyphonic ring types or music files.

Menu > Messaging > Data Folders > My Sounds

Data folders

Data folders

Sending a sound via Bluetooth®

- ▶ Select the folder where your sounds are stored.
- ▶ Select the sound that you want to send.
- ▶ Press .
- ▶ Select **Bluetooth**.
- ▶ Select the Bluetooth® device that you want to send to.
- ▶ Enter the Bluetooth® passkey provided with your device.

Note: You cannot use this for polyphonic ring types or music files.

Viewing the sound properties

You can see the file name, the date and time that it was created, its size, whether or not it is copyrighted and whether or not you can forward and copy the sound.

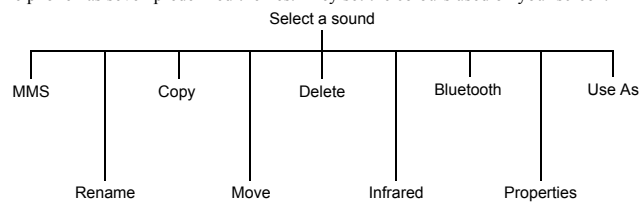
- ▶ Select the folder where your sounds are stored.
- ▶ Select the sound that you want.
- ▶ Press .
- ▶ Select **Properties**.

Using the sound as your ring type

- ▶ Select the folder where your sounds are stored.
- ▶ Select the sound that you want.
- ▶ Press .
- ▶ Select **Use As**.
- ▶ Select the type of call you want to use the ring type.
- ▶ Your ring type is updated to use the selected sound.

Themes

The phone has seven predefined themes. They set the colours used on your screen.



Data folders

Sending a theme by MMS

- ▶ Select the folder where your themes are stored.
- ▶ Select the theme that you want to send.
- ▶ Press  and select **MMS**.

A new MMS message is opened with the theme already embedded.

Renaming a theme

- ▶ Select the folder where your themes are stored.
- ▶ Select the theme that you want to rename.
- ▶ Press .
- ▶ Select **Rename**.
- ▶ Remove the existing text using , then enter the new name.

Copying or moving a theme

- ▶ Select the folder where your themes are stored.
- ▶ Select the theme that you want to copy or move.
- ▶ Press .
- ▶ Select **Copy** or **Move**.
- ▶ Select the folder to move or copy to.

Note: The default folder is the last one that you copied or moved to.

Deleting a theme

- ▶ Select the folder where your themes are stored.
- ▶ Select the theme that you want to delete.
- ▶ Press .
- ▶ Select **Delete**.
- ▶ Confirm delete.

Sending a theme via infrared

Set up the devices so that the infrared ports are pointing at each other, and within the effective range of infrared connection.

Ensure that there are no obstructions between the devices.

- ▶ Select the folder where your themes are stored.
- ▶ Select the theme that you want to send.
- ▶ Press .
- ▶ Select **Infrared**.

Menu > Messaging > Data Folders > My Themes

Data folders

Data folders

Sending a theme via Bluetooth®

- ▶ Select the folder where your themes are stored.
- ▶ Select the theme that you want to send.
- ▶ Press .
- ▶ Select **Bluetooth**.
- ▶ Select the Bluetooth® device that you want to send to.
- ▶ Enter the Bluetooth® passkey provided with your device.

Viewing the theme properties

You can see the theme name, the date and time that it was created, its size, whether or not it is copyrighted and whether or not you can forward and copy the theme.

- ▶ Select the folder where your themes are stored.
- ▶ Select the theme that you want.
- ▶ Press .
- ▶ Select **Properties**.

Using the theme

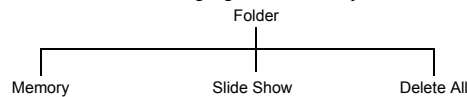
This changes the colours used on your screen to those in the selected theme.

- ▶ Select the folder where your themes are stored.
- ▶ Select the theme that you want.
- ▶ Press .
- ▶ Select **Use As > Theme**.

Your display changes to use the colours in the selected theme.

Manipulating folders

From the list of folders available, highlight a folder, and press .



Memory

Select **Memory** to display the percentage of memory used and the number of files currently in the folder.

Data folders

Slide show

Select **Slide Show** to display all the images stored in the folder in the order listed as a slide show. Each image displays for five seconds. You can select **Pause** to stop the slide show, and **Cont** to continue with the slide show.

Note: You can only do this for folders that contain graphics files.

Delete all

Select **Delete All** to delete all the downloaded contents of the folder. If the folder does not contain any downloaded files, nothing is deleted.

Downloading wallpapers and ringtones

You can download images to use as wallpaper and melodies to use as ringtones. The Panasonic website is <http://www.panasonicbox.com>.

Note: The Panasonic Box service is country and network operator dependent.

For a list of supported countries and operators:

- ▶ Go to <http://www.panasonicbox.com>.
- ▶ Select your region.
- ▶ Click on FAQ.
- ▶ Click on General.
- ▶ View the list of currently supported countries and network operators.

Before you can download any files you need to register with Panasonic Box.

- ▶ Go to <http://www.panasonicbox.com>.
- ▶ Select your region.
- ▶ Click on User Registration.
- ▶ Follow the instructions on the screen.

To access the site from your phone, you need to save the URL as a bookmark.

- ▶ Select **Browser**.
- ▶ Select **Enter URL**.
- ▶ Enter <http://wap.panasonicbox.com>.
- ▶ Select **Ok**. The Panasonic WAP home page is displayed.

Menu > Data Folders >

Menu > Browser

Data folders

Data folders

To download a colour logo:

- ▶ Log in to Panasonic Box.
- ▶ Select Logos and press .
- ▶ Select the category of the logo that you want to download and press .
- ▶ Select the number of the colour logo you wish to download and press .
- ▶ Check whether this is the logo you wish to download, select Download and press .
- ▶ Press  to select **Menu**.
- ▶ Select **Save Image**.
- ▶ Select the folder where you want to save the image.

To download a ringtone:

- ▶ Log in to Panasonic Box.
- ▶ Select Ringtones and press .
- ▶ Select the category of the ringtone that you want to download and press .
- ▶ Select the number of the ringtone you wish to download and press .
- ▶ Select Download and press .
- ▶ Press  to save the ringtone.
- ▶ Select the folder where you want to save the sound.



Organiser

The nine menus are as follows:



Synchronization

- 1 Sync Schedule
- 2 Sync Contacts
- 3 Server List
- 4 Restore Schedule
- 5 Restore Contacts



Contacts List

- 1 Browse
- 2 Create
- 3 Voice Dial
- 4 Groups
- 5 Settings
- 6 SIM
- 7 Storage



Converter



Business Card

- 1 View
- 2 Bluetooth
- 3 Infrared



Schedule



Calculator



Alarm



Memo

- 1 Record
- 2 Playback
- 3 Delete



Receive Object



Synchronization

Use this to synchronize your **Contacts List** and **Schedule** with data on an external server. You may need to do this if you store this type of information on several devices, and you want them all to be the same.

Setting your servers.

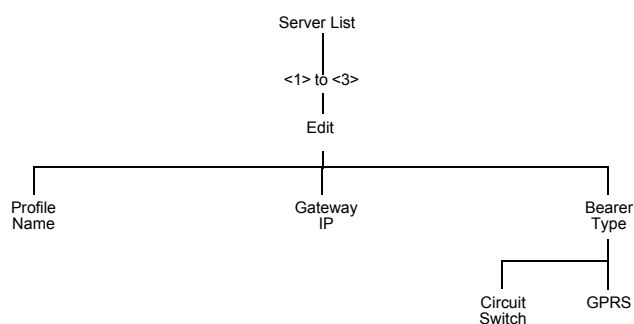
Note: Your server settings may have been pre-configured by your service provider. If you change them, you may not be able to synchronize with the server.

Before you can synchronize your data, you need to set up your servers. These are the servers that control your Internet connection.

Organiser

Organiser

Menu > Organiser > Synchronization > Server List



For **Circuit Switch**, select **Set**, then select **Edit** and set:

- Digital Dial number
- Analog Dial number
- Circuit Type. Select from **Digital** and **Analog**.
- User ID
- User Password

For **GPRS**, select **Set**, then select **Edit** and set:

- Access Point Name
- User ID
- User Password
- Authentication. Select from **Normal**, **Encrypted** and **None**.

Synchronizing your contacts list

Before you can synchronize your contacts list, you have to set up a connection to the external database. You can set up two connections.

- ▶ Highlight **Sync Contacts**.
- ▶ Select **Edit**.
- ▶ Select a connection.
- ▶ Select **Edit**.
- ▶ Enter the information about the connection.

Organiser

You need to set:

- Profile Name. This can be whatever you want to call the connection.
- Server Name. Enter the server URL.
- Server Database. Enter the name of the database.
- Server User ID. Enter your user ID.
- Server Password. Enter your user password

You can just send changes to the external database, or send all your records to the external database.

To just send changes to the external database:

- ▶ Select **Sync Contacts**.
- ▶ Select the server.

To send all your records to the external database:

- ▶ Select **Restore Contacts**.
- ▶ Select the server.

Synchronizing your schedule

Before you can synchronize your schedule, you have to set up a connection to the external database. You can set up two connections.

- ▶ Highlight **Sync Schedule**.
- ▶ Select **Edit**.
- ▶ Select a connection.
- ▶ Select **Edit**.
- ▶ Enter the information about the connection.

You need to set:

- Profile Name. This can be whatever you want to call the connection.
- Server Name. Enter the server URL.
- Server Database. Enter the name of the database.
- Server User ID. Enter your user ID.
- Server Password. Enter your user password

You can just send changes to the external database, or send all your records to the external database.

To just send changes to the external database:

- ▶ Select **Sync Schedule**.
- ▶ Select the server.

To send all your records to the external database:

- ▶ Select **Restore Schedule**.
- ▶ Select the server.

Menu > Organiser > Synchronization > Server List

Organiser

Organiser**Contacts list**

This accesses the same options as the Contacts List menu on the main menu. See Contacts list on page 51 for information on these options.

**Converter**

Use the converter to convert from/to a home currency using a conversion rate that you enter.

Entering an initial conversion rate

- ▶ Select **Converter** > **Edit**.
- ▶ Enter your abbreviation for the home currency (maximum three characters).
- ▶ Enter your abbreviation for the foreign currency (maximum three characters).
- ▶ Enter the current currency conversion rate.

Once you have entered a conversion rate it is retained in the phone. You can edit the conversion rate and currency abbreviation.

Converting a value

- ▶ Confirm that the conversion rate is correct, if not select **Edit** to edit it.
- ▶ Enter the amount to convert.

Reversing the currency conversion

When you have accepted the conversion rate and are ready to enter the value to convert, you can swap the currencies to convert from the foreign currency into the home currency.

- ▶ Select **Swap**.
- ▶ Enter the value to convert.

**Business card**

With **Business Card** you can enter some details about you, and send them to a Bluetooth® or infrared device.

Entering details

- ▶ Select **View**.
- ▶ Select the item you want to enter or change.
- ▶ Select **Edit**.
- ▶ Enter the text.

Organiser

You can enter the following information:

Item	Number of characters
First name	20
Last name	20
Home number	40
Work number	40
Mobile number	40
Other number	40
Home e-mail	80
Work e-mail	80
Other e-mail	80
URL	80
Title	16
Company name	20
Note	32
Picture	Select a picture from the list or take a picture with the camera.

Send your details to a Bluetooth® device

Select **Bluetooth**.

The phone looks for another Bluetooth® device.

Select a Bluetooth® device from the list.

Enter the Bluetooth® passkey provided with the device.

Send your details to an infrared device

Set up the devices so that the infrared ports are pointing at each other, and within the effective range of infrared connection.

Ensure that there are no obstructions between the devices.

Select **Infrared**.

Menu > Organiser > Business Card

Organiser

Organiser



Schedule

Use the schedule to register reminders for events and for planning holiday periods.

Caution: You need to ensure that any settings made in the schedule will not automatically power on the phone when you are in an aircraft, medical facility etc. See Important information on page 5.

Creating a reminder

- ▶ Select **Menu > Create**.
- ▶ Enter the start date.
- ▶ Enter the end date.
- ▶ Select the next menu item.
- ▶ Enter the start time.
- ▶ Enter the end time.
- ▶ Select the next menu item. Select from **Once**, **Daily**, **Weekly** and **Yearly**.
- ▶ Select the next menu item. Enter any notes that you want to make.
- ▶ Select the next menu item. Select a ring type.
- ▶ Press  to save the entry.

Viewing a reminder

- ▶ Highlight a date.
- ▶ Select **View** or select **Menu > View**.
- ▶ Select the reminder.
- ▶ Select **Detail**.

Deleting a reminder

- ▶ Highlight a date.
- ▶ Select **Menu > Delete**.
- ▶ Select from **Day**, **Past** and **All**.

Day, deletes all the reminders on the selected day.

Past, deletes all reminders prior to the selected day.

All, deletes all reminders.

Organiser

Setting a holiday reminder

- ▶ Select **Menu > Options**.
- ▶ Select **Holiday Set**.
- ▶ Select **Day** or **Day of the Week**.
- ▶ Press and hold  to remove the current date.
- ▶ Enter the new date.
- ▶ Repeat for each day of holiday as required.

Note: Dates that you set as holiday dates are shown in red.

Deleting holiday reminders

- ▶ Select **Menu > Options**.
- ▶ Select **Holiday Set**.
- ▶ Select **Holiday List**.
- ▶ Select required holiday date.
- ▶ Select **Delete**.
- ▶ Confirm delete.

To delete all your holiday reminders:

- ▶ Select **Menu > Options**.
- ▶ Select **Holiday Set**.
- ▶ Select **All Clear**.
- ▶ Confirm delete.

Changing the schedule layout

You can decide which day you want to have at the start of the week.

- ▶ Select **Menu > Options > Start of Week**.
- ▶ Select the day.

Jumping to a date

Rather than scrolling through each month on the schedule, you may want to go straight to a specific date to see whether you have any reminders set.

- ▶ Select **Menu > Jump**.
- ▶ Press and hold  to remove the current date.
- ▶ Enter the date you want to go to.
- ▶ Select **Ok**.

Menu > Organiser > Schedule

Organiser

Organiser



Calculator

The four function calculator performs simple calculations - addition, subtraction, multiplication and division.

- ▶ Select **Calculator**.
- ▶ Enter a number (maximum 10 digits).
- ▶ Use to select the arithmetic operator.
- ▶ Enter another number (maximum 10 digits).
- ▶ If the calculation is complete press to get the result.
- ▶ If the calculation is not complete, enter numbers and arithmetic operators, until the calculation is complete, then press to get the result.

Note: To enter a decimal point press .



Alarm

Sets the time, frequency and tone for an alarm call. You can set up to four alarms.

Setting an alarm

- ▶ Select to enter a new alarm, or select an existing alarm time to edit.
- ▶ Select .
- ▶ Enter the time.
- ▶ Select the next menu item to set the frequency of the alarm.
- ▶ Choose from **Repeat Daily** and **Once**.
- ▶ Select the next menu item to set an alarm tone.
- ▶ Select the folder where your sound is stored.
- ▶ Select a sound.
- ▶ Press to save your alarm settings.

Once you have set an alarm you can highlight it and use to cycle through **Repeat Daily**, **Once** or **Disabled**. The icon next to the alarm time changes to show which option you have selected.

Organiser

Disabling an alarm

- ▶ Select an existing alarm time.
- ▶ Select the frequency option.
- ▶ Select **Disabled**.
- ▶ Press  to save your alarm settings.

Or

- ▶ Highlight an existing alarm time.
- ▶ Press  to cycle through **Repeat Daily**, **Once** or **Disabled**.
- ▶ Stop at **Disabled**.
- ▶ Press  then  to save your alarm settings.



Memo

Use the Memo to record a two-way conversation during a call, and to use the phone as a voice recorder. You can record up to four memos. The maximum length of each memo is 14 seconds

Note: You can press the memo key on the side of the phone to access the memo function from idle mode.

If you install a different SIM you will lose your current memos.

When you have filled the four memo storage areas, any new recording overwrites the oldest memo.

Caution: You are responsible for the security of a recorded message. You should ask for the other party's consent before recording.

Recording a memo

- ▶ Select **Record**.
- ▶ Record your message.
- ▶ Press  to stop recording.
- ▶ Press  to start recording the next memo.

Recording a conversation

- ▶ To start recording during a call press  and select **Memo** or press the memo key on the side of the phone. A tone sounds when recording starts and again when it stops.
- ▶ To stop recording, press .

Menu > Organiser > Alarm

Menu > Organiser

Organiser

Organiser

Playing back a recording

- ▶ Select **Playback**.
- ▶ Select a recording.

To stop playing press  twice.

Note: You can use the notepad during play back, see Using the notepad on page 29.

Volume control during play back

While playing back a recording, use  to adjust the volume.

Deleting a recording

- ▶ Select **Delete**.
- ▶ Select the recording.
- ▶ Confirm delete recording.



Receive Object

Use this to receive data from another device.

For information on setting up infrared devices, see Infrared dialup on page 113.

For information on setting up Bluetooth® devices, see Discovering and pairing devices on page 111.

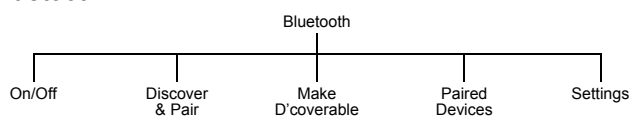


Connect

Note: Your phone can be used to connect a laptop or desktop PC to the Internet. For further information please refer to the documentation on the CD-ROM, or to the Panasonic website www.panasonicmobile.com/support/software.

From the **Connect** menu you can set up your connections to other devices, and receive data from other devices.

Bluetooth



Turning Bluetooth® on and off

- ▶ Select **On/Off**.
- ▶ Select **On** or **Off**.

If Bluetooth® is active and you choose to turn it off, you are asked if you want to disable Bluetooth® when the connection is active.

Discovering and pairing devices

Before you can transfer information between two Bluetooth® devices, they need to find each other and set up a connection. This is referred to as discover and pair.

- ▶ Select **Discover & Pair**.
As the phone discovers devices it displays them on the screen.
- ▶ When the device appears in the list you can select **Stop** to stop the search.
- ▶ If the phone does not discover your device, you can press  to try again.
- ▶ Highlight the device in the list.
- ▶ Select **Pair**.
- ▶ Enter the Bluetooth® Passkey provided with the device.

Note: The pairing will fail if you enter the wrong passkey.

The pairing may fail if the device is already paired with another device.
Your phone can be paired with up to ten devices.

Connect

Making the phone discoverable

If you want another Bluetooth® device to send data to your phone, you need to make your phone discoverable.

- ▶ Select **Make D'coverable**.
- ▶ Select **Start**.

Your phone will be discoverable for five minutes. While the phone is discoverable, the Bluetooth® icon flashes. If you pair your devices in less than five minutes you can turn off discoverable mode:

- ▶ Select **Make D'coverable**.
- ▶ Select **Stop**.

If you take longer than five minutes to pair your devices, your phone automatically turns off discoverable mode and you have to start it again.

Viewing, editing and deleting your paired devices

To see what devices you currently have paired select **Paired Devices**, and look at the list on the screen.

If you have no paired devices, you can select **Find** to discover a device.

You can select an item on the list and choose to edit it or delete it. If you choose **Edit**, you can rename the device.

Viewing your Bluetooth® settings

To view your Bluetooth® name and address select **Settings**.

To edit the name select **Menu > Edit**.

You cannot change your Bluetooth® address.

Sending data

You can send data from **Contacts List**, **Data Folders** and **Business Card**.

For **Contacts List**, select > **Contacts List > Browse > Bluetooth**.

For **Data Folders**, highlight the object you want to send. Press . Select **Bluetooth**.

For **Business Card**, select **Organiser > Business Card > Bluetooth**. Select the device from the list.

Connect

Infrared dialup

You can use the infrared connection to transfer information between another X70 or devices with an infrared port. You can also use GSM fax and data services, and you can access the Internet and e-mail via other devices.

Preparing for infrared connection

Place your phone and the other device within the effective range of the infrared connection.

- ▶ Ensure that there are no obstructions between the two devices.
- ▶ Ensure that the infrared ports of the devices point at each other.
- ▶ If you use a PC, you need to set up infrared connection on the PC.
For example, Start > Settings > Control Panel > Infrared > Options Tab
> Enable Infrared Communication.

Sending data

You can send data from **Contacts List**, **Data Folders** and **Business Card**.

For **Contacts List**, select > **Contacts List** > **Browse** > **Infrared**.

For **Data Folders**, highlight the object you want to send. Press . Select **Infrared**.

For **Business Card**, select **Organiser** > **Business Card** > **Infrared**.

Press  to stop the transmission at any time.

Receive object

The phone searches for devices that it can receive data from. To receive data from a Bluetooth® device you need to be paired with that device.

When you receive **Calendar** or **Contacts List** data, these applications are launched, and you are prompted to save the received data.

When you receive multimedia data, the **Data Folders** are opened, and you can choose where to save the file.

Using the Internet and faxing

You can join your X70 and a PC together via an infrared connection to access the Internet and to send and receive faxes. The following explains how to set up communication between the X70 and a PC. You should use these instructions in conjunction with your Internet platform software and/or your fax software.

Prerequisites

Faxing: Contact your network operator to find out whether this feature is available to you.

Ensure that you have set up a dial up account with an ISP.

You need the installation CD from your ISP, or your account details (phone number, user name and password) to configure Dial Up Networking within Windows.

Menu > Connect

Connect

Connect

When you set up your Internet account for the first time, select X70 as the connecting modem device. For more details contact your ISP or for help on using Windows Dial Up Networking, search your Windows Help Files, Start > Help.

Testing the infrared connection

The following describes how to set up a PC to connect to your X70, using the Windows standard communication software, HyperTerminal, as an example. The procedure described may differ for other software packages.

Note: HyperTerminal may not be located in Communications on your PC.

- ▶ On your PC, select Start > Programs > Accessories > Communications > HyperTerminal.
 - ▶ In the Connection Description dialogue box, enter a name of your choice in the Name field and click OK.
 - ▶ In the Phone Number dialogue box, select the country code
 - ▶ Enter your Internet Service Provider's phone number and confirm that X70 is selected in the "Connect using" box.
 - ▶ Click OK.
 - ▶ When the connect dialogue box is displayed, click Cancel.
 - ▶ Select File > Properties and confirm that X70 is selected.
 - ▶ Click OK.
 - ▶ In the HyperTerminal window, type AT+CGMI and click.
- If the X70 has connected successfully, you will receive the reply OK.

Connecting to the Internet

To connect to the Internet, you need to type in the AT command in the terminal screen on your PC.

On the PC:

Display the terminal screen in the communication software on your PC. In our example, select Start > Programs > Accessories > Communications > HyperTerminal.

On the X70:

- ▶ Select **Connect > Infrared Dialup**.
- ▶ When **Ready for Communication** is displayed, type in the AT command in the terminal screen of your PC.
- ▶ Enter the phone number to connect to for **Circuit Switch**. Use the dedicated phone number to packet, for **Packet** connection.
- ▶ Enter AT commands as necessary.



Connect



Faxing

Ensure that you have fax application software installed on your PC. We recommend that you use one of the following packages:

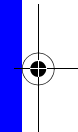
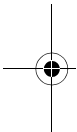
Microsoft Fax (www.Microsoft.com)

WinFax Pro or ProComm Plus (www.symantec.com)

Note: Ensure that the fax application is set up to use the area code and, for international calls, the country code.

Menu > Connect

Connect



Accessories

Bluetooth® headset (EB-BHX70)

You can use this to talk in your car without holding your phone.



Car charger (EB-CDX70)

Top up your battery in your vehicle by attaching this to your cigarette lighter socket.



Car holder (EB-KAX70)

This can be mounted in your vehicle to store your phone. Can be used with car charger and personal handsfree to provide basic in-car handsfree operation.



Carry case (EB-YKX70)

This hip case protects your phone, and can be attached to your belt to keep it close at hand.



Accessories

Fast travel charger (EB-CAX70UK)



Carry this wherever you go so you can always recharge your battery.

Fast travel charger (EB-CAX70EU)



Li-Ion battery (EB-BSX70)



Double your talk time by having a spare battery.

Personal handsfree (EB-EMD87)



Talk and move while keeping your hands free, by using a personal handsfree. Put the ear piece in your ear and the adaptor in the side of the handset, and talk

USB and charging data cable (EB-UCX70)



Use this to connect your phone to a PC, so you can transfer data between them. You should use this in conjunction with the software on your CD-ROM.

Accessories

CD-ROM

Accessories

PC Software

The CD-ROM supplied with your X70 phone contains software applications which allow you to manage the information in your phone from a Personal Computer (PC), and to enable your PC to communicate with the Internet through your phone. These applications include:

X70 GPRS Data Connection Assistant Software

The Panasonic GPRS Data Connection Assistant Software allows you to connect a laptop or desktop PC to the Internet and other network services via your X70 mobile phone. For further information please refer to the documentation on the CD-ROM, or to the Panasonic website www.panasonicmobile.com/support/software.

X70 Handset Manager

With Handset Manager you can easily manage your phone information on a PC and synchronize it back to the phone. This information includes contacts, messages, calendar and the image or sound data held in your X70. For further information please refer to the documentation on the CD-ROM, or to the Panasonic website www.panasonicmobile.com/support/software.

Installing the Software

The software is compatible with PCs and laptops running Microsoft Windows™ 98 or later. 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.

Care and maintenance



Pressing any of the keys may produce a loud tone. Avoid holding the phone close to your 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. If you use your phone in a temperature over 40°C for a long time, the display quality may deteriorate.



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



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



Avoid contact with liquids. If the equipment becomes wet immediately remove the battery and contact your dealer.



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



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, key, etc.).



Care and maintenance

Care and maintenance



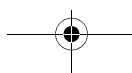
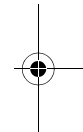
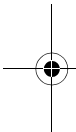
Always charge the battery in a well ventilated area, not in direct sunlight, between +5°C and +35°C. It is not possible to recharge the battery if it is outside this temperature range.



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.



Troubleshooting

Please contact your dealer, if any problem persists, or if your problem is not dealt with here.

Problem	Cause	Remedy
Phone will not switch on.	The network you are using and the condition of the battery can affect battery life.	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 is lit and attempting to switch it 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.
	Battery has been connected to the phone after the Fast Travel Charger has been switched on.	
Calls cannot be made.	The phone is locked.	Enter the lock code to unlock the phone.
	Outgoing calls are barred	Disable the outgoing call barring, or barred dial.
	The phone is not registered to a network.	Move to a coverage area and operate your phone after it has registered with a network.

Troubleshooting

Troubleshooting

Problem	Cause	Remedy
Calls cannot be made from Fixed Dial Store.		Check your SIM supports Fixed Dial. Check if the Fixed Dial is switched on. Check the phone number is stored in the Fixed Dial.
Calls cannot be received.	The phone is not switched on.	Switch the phone on.
	Incoming calls are barred.	Disable the 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.	Enter the lock code to unlock the phone.
	Phone number has been restricted.	Switch off restriction.

Important error messages

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

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 is not registered with that network – contact your service provider.
SIM Blocked/Contact service provider.	The SIM is blocked because one of the PIN/PIN2 unblocking keys (PUK/PUK2) has been entered incorrectly ten times – contact your service provider.

Troubleshooting

SIM Error.	The phone has detected a problem with the SIM – switch the phone off and then back on; if the message is still displayed contact your service provider.
SIM Invalid.	The SIM 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 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 ten times, services controlled by PIN2 cannot be used – contact your service provider.
Message Rejected Store Full.	A message has been received but the message store is full – to receive messages, delete some of the currently stored messages or set messages to Auto Delete.
Phone Number Too Long (Max:20).	The edited or newly created Contacts List number is too long for the SIM.
Warning Store Full Continue?	The message area is full. Your messages cannot be stored until some of the currently stored messages are deleted.
Verification Failure.	On changing the phone lock code, verification of the new code is incorrect – retry changing the lock code with correct verification.
Incorrect Lock Code.	Disabling or enabling the lock code has failed due to incorrect entry of the lock code – re-enter lock code.
Incorrect PIN/PIN2/PUK/ PUK2.	The entered code is incorrect – re-enter code correctly.
Auto Redial List Full.	Redial list of unsuccessfully dialled numbers is full – switch the phone off and then on again.

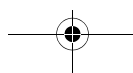
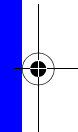
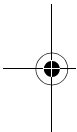
Glossary

APN	Access Point Name. Directs the user to the gateway or the required service.
CHAP	Challenge Handshake Authentication Protocol. A security feature for the GPRS network.
DTMF Tones	Dual Tone Multi-Frequency tones allow you to communicate with computerised phone systems, voice mailboxes etc.
GPRS	General Packet Radio Service. The technology the phone uses.
GSM	Global System for Mobile Communications. The name given to the advanced digital technology that your phone uses.
ISP	Internet Service Provider.
Network Operator	The organization responsible for operating a GSM network.
PAP	Password Authentication Protocol. A security feature for the GPRS network.
Password	Used for the control of the Call Bar. Supplied by your service provider.
PIN	Personal Identification Number used for SIM 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. Supplied by your service provider. If the PIN2 is entered incorrectly 3 times, the PIN2 will be blocked.
PUK/PUK2	PIN/PIN2 Unblocking Key. Used to unblock the PIN/PIN2. Supplied by your service provider. If the PUK/PUK2 is entered incorrectly 10 times, the PUK/PUK2 will be blocked.
Registration	The act of locking on to a GSM network. This is usually performed automatically by your phone.
Roaming	The ability to use your phone on networks other than your Home network.
Service Provider	The organization responsible for providing access to the GSM network.



Glossary

SIM	Subscriber Identity Module. A small smart-card which stores unique subscriber and user-entered information such as Contacts List entries and Short Messages. Supplied by your service provider.
WAP	Wireless Application Protocol. The communication standard which enables you to download resources from the Internet to your phone.



Specifications

Bands supported GSM900 Class 4, GSM1800 Class 1
 GSM1900
 Standby Time (hrs.) 75 – 250
 Talk Time (hrs.) 1.5 – 5

Note: Talk and Standby time are dependant upon network conditions, SIM usage and battery condition.

Temperature Range

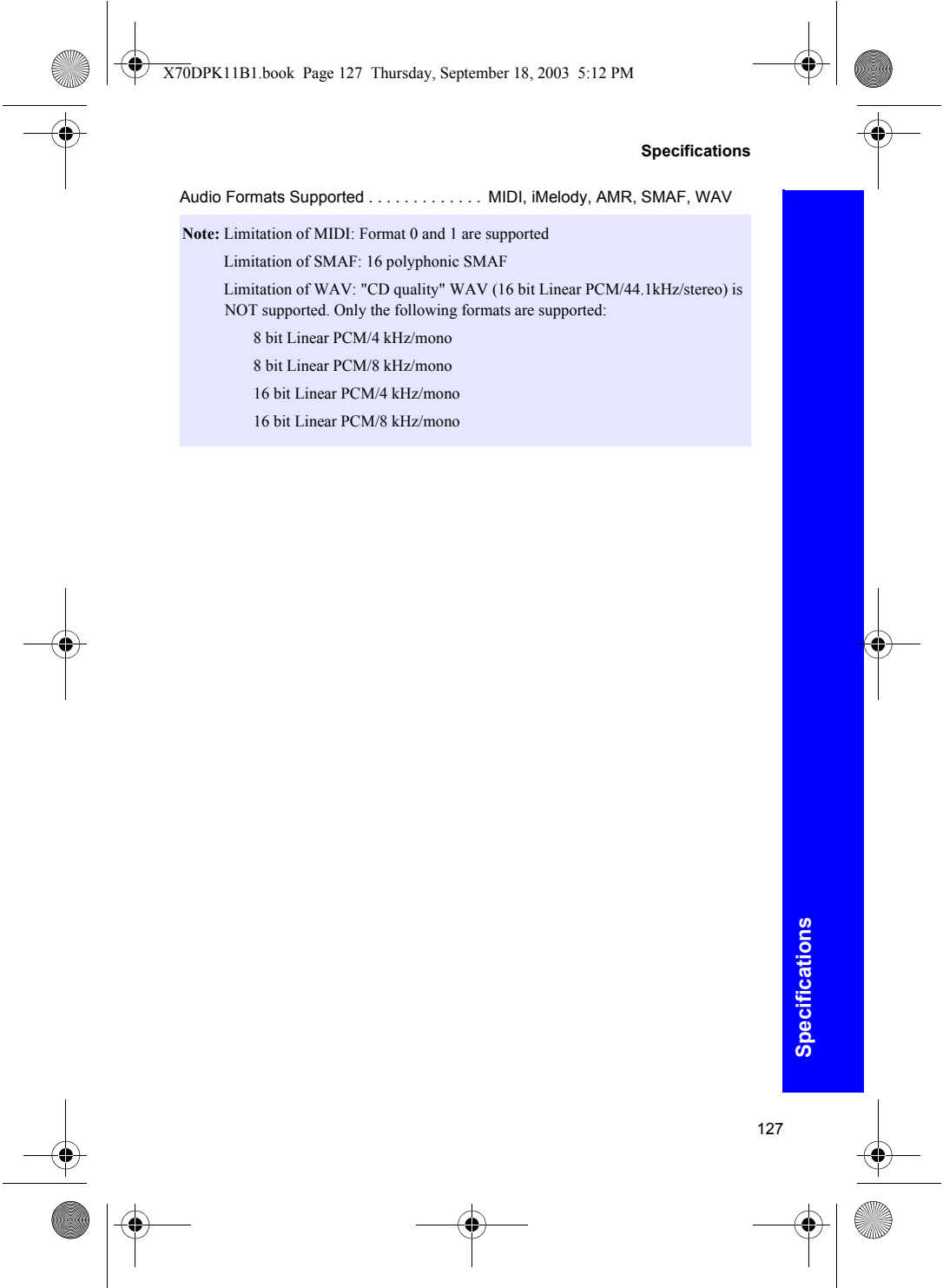
Charging +5°C – +35°C
 Storage -20°C – +60°C
 Weight: 92 g (including battery)

Dimensions

Height 87 mm
 Width 47 mm
 Depth 23.9 mm
 Supply Voltage 3.7 V DC, 680 mAh Li-ion
 Antenna Fixed
 Charge Time Up to 120 min.

Note: Charging time is dependant on usage and battery condition.

SIM Type 3 V only
 Contacts List Memory 500 + SIM
 Animation Themes 2
 Memo & Voice Recorder 4 x 14 seconds
 Games 4 or 2 (depends on service provider)
 Backlight colours 8
 Ringtones 15 Fixed (depends on Data Folder)
 Schedule Up to 100 entries
 Alarms 4
 Graphics Formats Supported GIF87a, GIF89, JPEG, WBMP,
 BMP, PNG
 Maximum Graphics Size 50 kB
 Graphics Storage Capacity 1 Mb
 Camera Resolution 132 x 176 or 288 x 352



Specifications

Audio Formats Supported MIDI, iMelody, AMR, SMAF, WAV

Note: Limitation of MIDI: Format 0 and 1 are supported
Limitation of SMAF: 16 polyphonic SMAF
Limitation of WAV: "CD quality" WAV (16 bit Linear PCM/44.1kHz/stereo) is NOT supported. Only the following formats are supported:
8 bit Linear PCM/4 kHz/mono
8 bit Linear PCM/8 kHz/mono
16 bit Linear PCM/4 kHz/mono
16 bit Linear PCM/8 kHz/mono



EU warranty and licensing

EU/EEA – Wide guarantee is applicable in the EU/EEA and Switzerland.

Panasonic GSM European Service Guarantee Conditions

Dear Customer,

Thank you for buying this Panasonic digital cellular telephone. The Panasonic GSM European Service Guarantee only applies while travelling in countries other than where the product was purchased. Your local guarantee is applicable in all other cases. If your Panasonic GSM telephone requires service while abroad, please contact the local service company shown on this document.

The Guarantee

The applicable period of the European wide guarantee for GSM is generally 12 months for the main body and 3 months for the rechargeable battery. With respect to a product used in a country other than a country of purchase, notwithstanding what is stated in the conditions below, the customer will benefit, in that country of use, from these guarantee periods of, respectively, 12 and 3 months, if these conditions are more favourable to him than the local guarantee conditions applicable in such country of use.

Conditions of Guarantee

When requesting guarantee service the purchaser should present the warranty card together with proof of purchase, to an authorised service centre.

The guarantee covers breakdowns due to manufacturing or design faults; it does not apply to other events such as accidental damage, however caused, wear and tear, negligence, adjustment, modification or repair not authorised by us.

Your sole and exclusive remedy under this guarantee against us is the repair, or at our option the replacement, of the product, or any defective part or parts. No other remedy, including, but not limited to, incidental or consequential damage or loss of whatsoever nature shall be available to the purchaser.

This is in addition to and does not in any way affect any statutory or other rights of consumer purchasers. This guarantee applies in countries shown on this document at the authorised service centres detailed for that country.

EU warranty and licensing

UK

Service Centres in England
Tel. +44 8705 159159

IRL

Service Centres in Ireland
Tel. +353 1 2898333

D

Panasonic Service Center Dresden
SERKO GmbH
Großenhainer Straße 163
01129 Dresden
Tel. +49 (0)351/ 85 88 477
Panasonic Service Center Cottbus
Petsch Kundendienst GmbH
Am Seegraben 21
03058 Gross-Gaglow
Tel. +49 (0)355/ 58 36 36

Panasonic Service Center Leipzig
KES Keilitz-Electronic-Service GmbH
Föppelstraße 19
04347 Leipzig
Tel. +49 (0)341/ 244 33 33

Panasonic Service Center Chemnitz
WPS Rundfunk- u. Fernsehservice GmbH
Fietzenstraße 16
09130 Chemnitz
Tel. +49 (0)371/ 40 10 359
Panasonic Service Center Berlin
SERKO GmbH
Schwedter Straße 34a
10435 Berlin
Tel. +49 (0)30/ 44 30 322

Panasonic Service Center Berlin
RUESS SYSTEMS
Thrasoltstraße 11
10585 Berlin
Tel. +49 (0)30/ 342 2013

Panasonic Service Center Rostock
warnow electronic service gmbh
An der Jägerbäk 2
18069 Rostock
Tel. +49 (0)381/ 82 016

Panasonic Service Center Hamburg
ELVICE Service GmbH
Spaldingstraße 74
20097 Hamburg
Tel. +49 (0)40/ 23 08 07

Panasonic Service Center Rendsburg
FERNSEH-DIENST B&W Service GmbH
Kieler Straße 41
24678 Rendsburg
Tel. +49 (0)4331/ 14 11-0

Panasonic Service Center Bremen
COM Elektronik Service GmbH
Rübekamp 50
28219 Bremen
Tel. +49 (0)421/ 691 80 69

Panasonic Service Center Hannover
COM Elektronik Service GmbH
Vahrenwalder Straße 311
30179 Hannover
Tel. +49 (0)511/ 37 27 91

Panasonic Service Center Magdeburg
SERKO GmbH
Ebendorfer Chaussee 47
39128 Magdeburg
Tel. +49 (0)391/ 289 90 69

Panasonic Service Center Düsseldorf
VTH GmbH
Kölner Straße 147
40227 Düsseldorf
Tel. +49 (0)211/ 77 90 25
Panasonic Service Center Essen
Bernd van Bevern GmbH
Heinrich-Held-Straße 16
45133 Essen
Tel. +49 (0)201/ 84 20 220

Panasonic Service Center Osnabrück
Petsch Kundendienst GmbH
Pagenstecherstraße 75
49090 Osnabrück
Tel. +49 (0) 541/ 68 038

Panasonic Service Center Wiesbaden
J. Hemmerling - VAD GmbH
Ostring 7
65205 Wiesbaden
Tel. +49 (0)6122/ 90 91 10

EU warranty and licensing

EU warranty and licensing

Panasonic Service Center Mannheim
N. Schaaf
Reichenbachstraße 21-23
68309 Mannheim
Tel. +49 (0)621/ 72 787-0

Panasonic Service Center Stuttgart
Hans Beck
Friedrich-List-Straße 38
70771 Leinfelden-Echterdingen
Tel. +49 (0) 711/ 94 701-0

Panasonic Service Center Reutlingen
Herbert Geissler
Lichtensteinstraße 75
72770 Reutlingen
Tel. +49 (0)7072 / 92 96-0

Panasonic Service Center München
G. Berghofer & W. Kaller GmbH
Helene-Wessel-Bogen 7
80939 München
Tel. +49 (0)89/ 318 907-0

Panasonic Service Center Augsburg
Klaus Bienek
Affinger Straße 4
86167 Augsburg
Tel. +49 (0)821/ 70 70 75

Panasonic Service Center Nürnberg
Herbert Geissler GmbH
Friedrich-Ebert-Straße 21
90537 Feucht
Tel. +49 (0)9128/ 70 67-0

Panasonic Service Center Eisenach
Blitz Electro-Electronic-GmbH
Bahnhofstraße 17
99817 Eisenach
Tel. +49 (0)3691/ 29 29 42 8

A

Panasonic Service Center in Österreich
Frisch
Lokalbahnweg 12
4060 Leonding
Tel. +43 7326 76961

FR

CETEELEC
FI de la Delorme
5 Avenue Paul héroult
13015 MARSEILLE
Tél. : 04 96 15 77 77
Tél. : 04 91 58 07 55

CORDON Electronique
BP 460
FI Taden
22107 DINAN CEDEX
Tél. : 02.96.85.82.20
Fax : 02.96.85.82.21

EASY REPAIR
26 rue des Cosmonautes
31400 Toulouse
Tél. : 05.62.71.48.14
Fax : 05.62.71.48.15

EASY REPAIR
22 boulevard des Brotteaux
69006 Lyon
Tél. : 04.72.83.02.02
Fax : 04.78.52.40.38

ELECTRONIQUE SERVICE
Avenue Figuières
FAC Font de la Banquière
34970 LATTES
Tél. : 04.67.15.96.30
Fax : 04.67.20.04.72

GENERAL ELECTRONIQUE
16 rue Joseph Cugnot
F.I. Bracheux
60000 BEAUVAIS
Tél. : 03.44.89.79.00
Fax : 03.44.05.16.96

Négoce Technique etMaintenance
40 boulevard Bessières
75017 PARIS
Tél. : 01.44.85.21.66
Fax : 01.42.29.60.05

S.B.E.
F.I. de la Liane
BP 9
62360 SAINT LEONARD
Tél. : 03.21.10.10.21
Fax : 03.21.80.20.10

EU warranty and licensing

NL

Service-centra in Nederlands

Panasonic-Centre Nederland
(Servicom bv)
P.O Box 16280
2500 BG
Den-Haag
Nederland
Tel. +31 703314314

Fonweg 60
2516 BM
Den-Haag
Nederland
Tel. +31 703314314

I

Per I Centri Assistenza in Italia
Servizio Clienti
Tel. +39 02/ 67072556

E

Panasonic España, S.A.
Servicio de Atención a Usuarios:
Tel: 902 15 30 60

DK

For nærmeste servicecenter ring Panasonic
Danmark
Tel. +45 43 20 08 50

S

Firmor i Sverige

Komrep
Rosenlundsgatan 4
411 20 Göteborg
Tel. +46 031-173354

Signalstyrkan
Kungsholmstorg 4
104 22 Stockholm
Tel. +46 08-6542500

CR service
Industribyn 3
232 37 Malmö
Tel. +46 040-430030

SF

Huoltokeskukset Suomessa:

KAUKOMARKKINAT OY PANASONIC-
HUOLLOT Kutojantie 4
02630 Espoo
Puh. +358 09 521 5151 Huolto
Puh. +358 09 521 5155 Varaosat Ja
Tarvikkeet

SETELE OY
Vanha Viertotie 7
00300 Helsinki
Puh. +358 09 549100

PLAY-SHOP SERVICE Keskuskatu 3
00100 Helsinki
Puh. +358 09 27053626

MEGAFIX KY
Louhenkatu 9
74100 Iisalmi
Puh. +358 017 14631

T: M.I.M.HAAPOJA
Miilukatu 7
40320 Jyväskylä
Puh. +358 014 677121

OUTOKUMMUN PUHELIN
Pohjoisahonkatu 9
83500 Outokumpu
Puh. +358 013 562211

SETELE OY
Rengastie 31
60100 Seinäjoki
Puh. +358 06 4148344

TURUN J-MARKKINAT OY Tuureporinkatu
6
20100 Turku
Puh. + 358 02 2332685

EU warranty and licensing

EU warranty and licensing

N

Servicesenter I Norge

Norsk Elektronikkcenter
Fetveien 1
2007 Kjeller
Tlf: +47 63 80 45 00

Panasonic Norge AS
Østre Aker vei 22
0508 Oslo
Tlf: +47 22 91 68 00

GR

Κέντρα τεχνικής υποστήριξης

INTERTECH S.A.
International Technologies
Αφροδίτης 26, 167 77 Ελληνικό
Ταχ. Θυρ.: 738 21, 167 10 ΕΛΛΗΝΙΚΟ
Τηλ. Κέντρο: (01) 9692.300

Υποκατάστημα Βόρειας Ελλάδας:
Κ. Καραμανλή 11, 54638 ΘΕΣΣΑΛΟΝΙΚΗ
Τηλ. Κέντρο: (031) 245.840-3

P

Centros de Assistência em Portugal

PAPELACO, S.A.
Vale Paraíso - Ferreiras
8200 ALBUFEIRA
ALGARVE
Tel. +351 89 589960

PAPELACO, S.A.
Largo de Santos, 9
1200 LISBOA
Tel. +351 1 3970539
PAPELACO, S.A.
Largo do Tribunal, Lote 11
2400 LEIRIA
Tel. +351 44 28071

PAPELACO, S.A.
Rua Cidade de Santos, 31R/C
9000 FUNCHAL
MADEIRA
Tel. +351 91 231523

PAPELACO, S.A.
Rua do Outeiro,
Lote 25 - Gemunde
4470 MAIA
PORTO
Tel. +351 2 944 0354/9

PAPELACO, S.A.
Rua Major Leopoldo da Silva,
Lote 3
3500 VISEU
Tel. +351 32 424771

B

Centres de service après-vente en Belgique

BROOTHAERS
Hoevelei 167
2630 AARTSELAAR
Tel. +32 03/887 06 24

HENROTTE
Rue du Campinaire 154
6240 FARCENNES
Tel. +32 071/39 62 90

PIXEL VIDEOTECH
Rue St Remy 7
4000 LIEGE
Tel. +32 041/23 46 26

DELTA ELECTRONICS
Rue P d'Alouette 39
5100 NANINNE
Tel. +32 081/40 21 67

ELEKSERVICE FEYS Houthulstseweg 56
8920 POELKAPELLE
Tel. + 32 057/48 96 37

AVS WAASLAND Lavendelstraat 113
9100 ST NIKLAAS
Tel. +32 03/777 99 64

A.V.T.C SA
Kleine Winkellaan 54
1853 STROMBEEK-BEVER
Tel. + 32 02/267 40 19

RADIO RESEARCH
Rue des Carmélites 123
1180 BRUXELLES
Tel. +32 02/345 68 56

EU warranty and licensing

VIDEO TECHNICAL SERVICE
Av. du Roi Albert 207
1080 BRUXELLES
Tel. +32 02/465 33 10

SERVICE CENTER Kapellestraat 95
9800 DEINFE
Tel. +32 09/386 67 67

TOP SERVICE
Westerloseweg 10
2440 GEEL
Tel. +32 014/54 67 24

TELECTRO SC
Quai des Ardennes 50
4020 Liège
Tel. +32 041/43 29 04

L

Centres de service après-vente au
Luxembourg

NOUVELLE CENTRAL RADIO
Rue des Jones 15
L - 1818 Howald
Luxembourg - Grand Duché
Tel. +32 40 40 78

CH

Jonh Lay Electronics AG
Littauerboden
6014 Littau
Phone: +41 41 259 9090
Fax: +41 41 252 0202

TR

TEKOFAKS ISTANBUL CENTRE OFFICE
KAĞITHANE CADDESİ SEVYLEN SOKAK
NO. 58 80340 ÇADLAYAN-ISTANBUL
Tel: 90-212-220 60 70 / 14 Lines
Fax: 90-212-220-60 94

ANKARA BRANCH OFFICE
CETIN EMEE BULVARI NO: 53
06450 OVECLER/ANKARA
Tel: 90-312-481 64 64/6 Lines pbx

ÝSMÝR BRANCH OFFICE
CUMHURÝYET BULVARI NO:330 K.:6
D.:608 SEVÝL ÝP MERKEFÝ 35520
ALSANCAK-ÝFMÝR
Tel: 90-232-464 29 01 pbx
Fax: 90-232-422 67 44

BURSA BRANCH OFFICE
PEHREKÜSTÜ MAH.LLESÝ DURAK
CADDESÝ NO.:7 BURSA
Tel: 90-224-225 10 46 pbx
Fax: 90-224-223 81 03

ADANA BRANCH OFFICE
REPATBEY MAH.FUFULÝ CAD.GÜLEK
SÝTESÝ A BLOK NO: 75b 01120 ADANA
Tel: 90-322-458 39 52 pbx
Fax: 90-322-453 21 32

TRABFON BRANCH OFFICE
MARAŞ CAD.MARAŞ APT.NO:51 D.:2
61200 TRABFON
Tel: 90-462-321 33 08
Fax: 90-462-326 37 78

ANTALYA BRANCH OFFICE
ALTINDAĞ MAH. 146 SOKAK ÖFKOÇ
APT.NO:9/1-2A ANTALYA
Tel: 90-242-243 23 70 / 3 Lines
Fax: 90-242-243 23 72

DÝYARBAKIR BRANCH OFFICE
LYSE CADDESÝ GÖKALP APT.NO: 18/A
DÝYARBAKIR
Tel: 90-412-228 73 00
Fax: 90-412-223 59 00

EU warranty and licensing

EU warranty and licensing

EU/EEA – Wide Guarantee: Conditions applicable in any country other than the country of original purchase.

When the purchaser finds the appliance to be defective, he should promptly contact the proper sales company or national distributor in the EU/EEA country where this guarantee is claimed, as indicated in the "Product Service Guide" or the nearest authorised dealer together with this guarantee and proof of date of purchase. The purchaser will then be informed whether:

- (i) the sales company or national distributor will handle the repair service; or
- (ii) the sales company or national distributor will arrange for trans-shipment of the appliance to the EU/EEA country where the appliance was originally marketed; or
- (iii) the purchaser may himself send the appliance to the sales company or national distributor in the EU/EEA country where the appliance was originally marketed.

If the appliance is a product model which is normally supplied by the sales company or national distributor in the country where it is used by the purchaser, then the appliance, together with this guarantee card and proof of date of purchase, should be returned at the purchaser's risk and expense to such sales company or distributor, which will handle the repair service. In some countries, the affiliated sales company or national distributor will designate dealers or certain service centres to execute the repairs involved.

If the appliance is a product model which is not normally supplied in the country where used, or if the appliance's internal or external product characteristics are different from those of the equivalent model in the country where used, the sales company or national distributor may be able to have the guarantee repair service executed by obtaining spare parts from the country where the appliance was originally marketed, or it may be necessary to have the guarantee repair service executed the sales company or national distributor in the country where the appliance was originally marketed.

In either case, the purchaser must furnish this guarantee card and proof of date of purchase. Any necessary transportation, both of the appliance and of any spare parts, will be at the purchaser's risk and expense, and there may be a consequent delay in the repair service.

Where the consumer sends the appliance for repair to the sales company or national distributor in the country of use of the appliance, the service will be provided on the same local terms and conditions (including the period of guarantee coverage) as prevail for the same model appliance in the country of use, and not the country of initial sale in the EU/EEA. Where the consumer sends the appliance for repair to the sales company or national distributor in the EU/EEA country where the appliance was originally marketed, the repair service will be provided on the local terms and conditions prevailing in the country of initial sale in the EU/EEA.

Some product models require adjustment or adaptation for proper performance and safe use in different EU/EEA countries, in accordance with local voltage requirements and safety or other technical standards imposed or recommended by applicable regulations. For certain product models, the cost of such adjustment or adaptation may be substantial and it may be difficult to satisfy local voltage requirements and safety or other technical standards. It is strongly recommended that the purchaser investigates these local technical and safety factors before using the appliance in another EU/EEA country.

This guarantee shall not cover the cost of any adjustments or adaptations to meet local voltage requirements and safety or other technical standards. The sales company or national distributor may be in a position to make the necessary adjustments or adaptations to certain product models at the cost of the purchaser. However, for technical reasons it is not possible to adjust or adapt all product models to comply with local voltage requirements and safety or other technical standards. Moreover, where adaptations or adjustments are carried out the performance of the appliance may be affected.

If in the opinion of the sales company or national distributor in the country where the appliance is used the purchaser has the necessary adjustments or adaptations to local voltage requirements and technical or safety standards properly made, any subsequent guarantee repair service will be provided as above indicated, provided the purchaser discloses the nature of the adjustment or adaptation if relevant to the repair. (It is recommended that the purchaser should not send adapted or adjusted equipment for repair to the sales company or national distributor in the country where the appliance was originally marketed if the repair relates in any way to the adaptation or adjustment.)

This guarantee shall only be valid in territories subject to the laws of the European Union and the EEA.

Please keep this guarantee with your receipt.

EU warranty and licensing

Licensing

In-Fusio



In-Fusio have developed specific software called ExEn for the purpose of downloading and playing games from mobile handset.

In-Fusio is a trademark or registered trademark of In-Fusio, France.

Tegic

T9® is a trademark of Tegic Communications Inc. T9® Text Input is licensed under one or more of the following: U.S. Pat Nos. 5,818,437, 5,953,541, 5,187,480, 5,945,928, and 6,011,554; Canadian Pat No. 1,331,057; United Kingdom Pat No. 2238414B; Hong Kong Standard Pat. No. HK0940329; Republic of Singapore Pat No. 51383; Euro. Pat No. 0 842 463 (969272260.8) DE/DK,FI, FR, IT, NL, PT, ES, SE, GB: and additional patents are pending worldwide.

CP8 Patent

Panasonic Mobile Communications Development of Europe Ltd. 2003.

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CE 0168

EU warranty and licensing

Personal settings and notes

Use the table below to record your GSM/GPRS WAP settings.

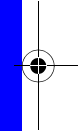
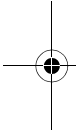
Item	Provisioning Information Setting No 1	Provisioning Information Setting No 2	Provisioning Information Setting No 3	Provisioning Information Setting No 4	Provisioning Information Setting No 5
Name					
Home URL					
Linger Time					
Gateway IP					
Security	Non secure/ Secure (Delete One)				
Bearer Type					
Circuit Switched (GSM)					
Digital Dial #					
Analog Dial #					
Circuit Type					
User ID					
User Password					
Packet Switched (GPRS)					
Access Point Name					
User ID					
User Password					
Authentication	Normal/ Encrypted/ None (PAP) (Chap)				



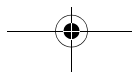
Personal settings and notes



Notes



Personal settings and notes



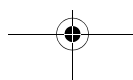
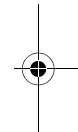
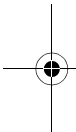


Personal settings and notes

The Serial Number can be found on the outside of the phone under the battery. For your convenience we recommend that you note the following details as a record of your purchase.

Part Number	
Serial Number	
Dealer Name	
Purchase Date	

Personal settings and notes



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