

[M]900

This guide describes the operation of the GSM telephones M900.
Edition 1, 2004. © Melco Mobile Communications Europe S.A., 2004

Whilst every effort has been made to ensure the accuracy of the instructions contained in this guide, Melco Mobile Communications Europe S.A. reserves the right to make improvements and changes to the product described in this guide and/or to the guide itself, without prior notice.



Java™ and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the US and other countries.

Melco Mobile Communications Europe S.A. is a Mitsubishi Group Company.

TABLE OF CONTENTS

Page 5	Introduction	
	SAR	5
	Declaration of conformity	6
	General safety	6
	Vehicle safety	6
	Emergency calls	7
	Care and maintenance	7
	AC/DC adaptor charger	7
	Battery use	7
	PC cable	8
	Your responsibility	8
	Security Code: PIN codes	8
	Disposing of waste packaging	8
Page 9	Using this guide	
Page 13	Getting started	
	Preparing the phone for operation	12
	Basic operations	12
Page 16	Tools	
	Diary	15
	Calculator	18
	Currency converter	18
	Alarm clocks	19
	Infrared port	19
	Using your mobile as a modem	20
	MetaFile Exchange	20
Page 22	Messages/Text editing	
	Contents of the Messages menu	21
	Reading a received SMS message	21
	Reading stored SMS messages	21
	Moving messages to SIM	21
	Forwarding messages	22
	Activating or deactivating the message alert tone	22
	Preparing the phone to send SMS messages	22
	Entering text / Edition mode	23
	Sending a new SMS message	27
	Creating text models	27
	Editing a text model	27
	Signature	28
	Outbox and SIM archive emitted messages	28
	Draft messages	28
	Status request	28
	Voice mail	29
	Storage consumption	30
Page 33	Multimedia messages	
	Reading a received MMS message	31
	Saving received multimedia message content	31
	Writing and sending a multimedia message	32
	Filling in the multimedia message card fields	32
	Preparing the phone to send MMS messages	34
	Sending messages from the outbox	36
	Editing multimedia messages from the drafts folder	36
	Storage consumption	36

Page 39	e-mails	
	Reading a received e-mail	37
	Composing an e-mail	38
	Settings	39
	Sending an e-mail from the outbox	40
	Editing e-mails from the drafts folder	40
	Storage consumption	40
Page 43	Calls & times	
	Call logs	41
	Call timers	41
	Call costs - management	42
	Recorded call	43
	Line selection	43
Page 46	Phone book	
	Storing names and telephone numbers	44
	Adding a video to your Phone book card	46
	Adding a picture or an icon to your Phone book card	46
	Setting a melody, a music or a speech note as a ringtone	47
	Editing a Phone book or a SIM name card	47
	Viewing and calling Phone book numbers	48
	Voice dialling	48
	Free space in the Phone book	49
	Creating a group of cards	49
	My card	50
	My number(s) display	50
	Fixed dialling numbers	50
	Export	51
Page 54	Camera	
	The Camera screen and the related icons	52
	Closed clamshell: scenery shots	53
	Open clamshell: self-portraits	57
Page 63	Video	
	Video display	61
	Closed clamshell: scenery shots	62
	Open clamshell: self-filming	66
Page 71	Fun & media box	
	Pictures	69
	Melodies	72
	Videos	73
	Music	75
	Speech notes	77
	Frames	78
	Java™ applications	80
	Others	81
	Storage used	83
Page 86	miniSD™ Card	
	Handling and storage precautions	84
	Protecting your data	84
	How to insert/extract your miniSD™ Card	85
	How to access the miniSD™ Card contents	85
	How to configure your miniSD™ Card	86
	Storage used	86
Page 89	Calendar	
Page 89	Network services	
Page 90	Wap™	
	Storing the connection settings	88
	Starting a Wap™ session	88
	Ending the online connection	89
	Personalising your connection settings	90
	Advanced settings on Wap™ profiles	92

Page 96	Settings	
	Tones	94
	Display	95
	Keypad	96
	Phone settings	97
	Connection manager	99
	GSM services	100
	Security features	104
	Certificates	105
	WIM manager	105
	Privacy	106
	miniSD™ Card	106
Page 109	Appendix	
	Glossary	107
	Troubleshooting	108
	Error messages	109
	Guarantee	111
Page 114	Index	

INTRODUCTION

Thank you for purchasing the M900 (GSM, DCS, PCS) mobile telephone. The mobile telephone described in this guide is approved for use on all GSM 900, DCS 1800 and PCS 1900 networks. Some of the messages displayed on your phone may be different according to your subscription type and/or service provider.

As with all types of radio transceivers, this mobile telephone emits electromagnetic waves and complies with international regulations when it is used under normal conditions and in accordance with the safety and warning messages given below.

SAR

THIS M900 PHONE MEETS THE EU REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Before a mobile phone is available for sale to the public, compliance with the European R&TTE directive(1999/5/EC) must be shown. This directive includes as one essential requirement the protection of the health and the safety of the user and any other person.

Your mobile phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the limits for exposure to radiofrequency (RF) energy recommended by The Council of the European Union¹. These limits are part of the comprehensive guidelines and establish permitted levels of RF energy for the general public. The guidelines were developed by independent scientific organisations through periodic, thorough evaluation of scientific studies. The limits include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for mobile phones (CENELEC standard EN 50360: 2001) employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit² recommended by The Council of the European Union is 2.0 W/kg. Tests for SAR have been conducted using standard operating positions (with reference to CENELEC standard EN 50361: 2001) with the phone transmitting at its highest certified power level in all tested frequency bands³. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a base station antenna, the lower the power output.

The highest SAR value for this M900 model when tested for compliance against the standard was 0.754W/kg. While there may be differences between the SAR levels of various phones and at various positions, they all meet the EU requirements for RF exposure.

Additional information from the World Health Organization (WHO)

Individuals: Present scientific information does not indicate the need for any special precautions for use of mobile phones. If individuals are concerned, they might choose to limit their own or their children's RF exposure by limiting the length of calls, or using "hands-free" devices to keep mobile phones away from the head and body.

RF absorbing devices: Scientific evidence does not indicate any need for RF-absorbing covers or other "absorbing devices" on mobile phones. They cannot be justified on health grounds and the effectiveness of many such devices in reducing RF exposure is unproven.

Source: WHO Fact Sheet 193, June 2000.

WHO: www.who.int/peh-emf.

There are a number of independent sources of information available to users including:

Royal Society of Canada: www.rsc.ca

The International Commission on Non-Ionizing Radiation Protection (ICNIRP): www.icnirp.de

1. European recommendation 1999/519/EC
2. The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of tissue. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.
3. The maximum level of GSM emitted power is 250mW at 900 MHz and 125 mW at 1800 MHz according to the GSM standard.

The US Food and Drug Administration: www.fda.gov/cellphones/

The World Health Organization: www.who.int/emf

Melco Mobile Communications Europe S.A. belongs to the MMF, an international association of radio equipment manufacturers.

The MMF produces this type of information in order to develop and present industry positions to independent research organisations, government and other research bodies.

Mobile Manufacturers Forum
Diamant Building, 80 Blvd. A. Reyers
B-1030 Brussels Belgium
www.mmfai.org

■ Declaration of conformity

Melco Mobile Communications Europe S.A. hereby declares that this M900 (VGH08A) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the full Declaration of Conformity may be found on our website:

<http://www.mitsubishi-telecom.com>

■ General safety

Due to the possibility of radio frequency interference, it is important to follow special regulations regarding the use of radio equipment.

Please follow the safety advice given below.

	Switch off your phone and remove the battery when in an aircraft. The use of mobile telephones in an aircraft may endanger the operation of the aircraft, disrupt the mobile phone network and is illegal.
	Switch off your phone when at any refuelling point or near flammable materials.
	Switch off your phone in hospitals and any other places where medical equipment may be in use.
	Respect restrictions on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress.
	There may be a hazard associated with the operation of phones close to inadequately protected personal medical devices such as hearing aids and pacemakers. Consult your doctor or the manufacturers of the medical device in question to determine whether it is adequately protected.
	Operation of your phone close to other electronic equipment may also cause interference if the equipment is inadequately protected. Observe any warning signs and manufacturers recommendations.

■ Vehicle safety

Respect national regulations on the use of mobile telephones in vehicles.

Road safety always comes first! Always give your full attention to driving.

- Do not use a hand-held phone while driving. If you do not have a 'hands free' car kit, stop and park your vehicle safely before using your phone. Please ensure that you are fully aware of the laws in your country regarding the use of hand-held mobile devices whilst driving.

- If incorrectly installed in a vehicle, mobile telephones can interfere with the proper operation of the vehicle electronics, such as ABS anti-lock brakes or air bags. To avoid such problems ensure that only qualified personnel carry out the installation.

- Do not place the phone on the passenger seat or where it could fall during sudden braking or a collision. Always use the holder.

■ Emergency calls

You can make emergency calls by dialling the European standard emergency number **112** or the USA emergency number **911** even if there is no SIM card in your phone. Emergency calls can even be made if the phone is PIN or electronically locked or call barred. In some countries local emergency numbers can still be used for emergency purposes but the phone may have to contain a valid SIM card.

When making an emergency call remember to give all the necessary information as accurately as possible. As the phone may be the only means of communication at the scene of an emergency, do not cut off the call until you are told to do so.

 Mobile phones rely on wireless and landline networks which cannot be guaranteed in all conditions. You should therefore never rely solely on wireless phones for essential emergency communications.

■ Care and maintenance

This mobile telephone is a product of advanced engineering, design and craftsmanship and should be treated with care. Adhere to instructions below will help you to enjoy this product for many years.

- Do not expose your phone to any extreme environment with high humidity or temperature.
- Do not expose your phone to or store your phone in cold temperatures. When the phone warms up to its normal temperature after switch on, moisture may form inside and damage the electrical parts.
- Do not attempt to disassemble the phone. There are no user serviceable parts inside.
- Do not expose your phone to water, rain or spilt beverages. It is not waterproof.
- Do not drop, knock or violently shake your phone. Rough handling may damage it.
- Do not clean your phone with strong chemicals or solvents. Wipe it only with a soft, slightly dampened cloth.
- Do not place the telephone alongside computer discs, credit or travel cards or other magnetic media. The information contained on discs or cards may be affected by the phone.
- Do not connect incompatible products. The use of third party equipment or accessories, not made or authorised by Mitsubishi Electric, invalidates the warranty of your phone and may be a safety risk.
- Do not remove the labels. The serial numbers on it are important for aftersales service and other related purposes.
- Contact an authorised service centre if help is needed.

■ AC/DC adaptor charger

This mobile phone was designed to be used only with the supplied AC/DC charger. Use of any other charger or adaptor invalidates any approval given to this apparatus and may be dangerous.

■ Battery use

Batteries may be charged hundreds of times and will gradually wear out. When the operating time (stand-by and talk time) is noticeably shorter than normal, it is time to replace the battery.

If the battery is totally empty the battery level symbol may not be displayed at once when connecting the battery charger, moreover the phone cannot be turned on. Up to 15 minutes may be necessary to reach the required 4% battery charge to turn your phone on and allow the battery charge symbol to be displayed. Battery charging may only operate between 0°C and + 45°C.

- Do not leave batteries connected to a charger longer than necessary. Overcharging shortens battery life.
- Disconnect battery chargers from the power source when not in use.
- Do not expose batteries to high temperatures or humidity.
- Do not dispose of the batteries in fire. They may explode.
- Keep batteries away from contact with metal objects which can short circuit the battery terminals (e.g. keys, paper clips, coins, etc.).
- Do not drop or subject the batteries to strong physical shocks.
- Do not try to disassemble any of the battery packs.
- Use only the recommended battery chargers (see above).
- If the battery terminals become soiled, clean them with a soft cloth.

- Batteries may warm up during charging.



Caution:

Risk of explosion if the battery is replaced by any other battery than the Mitsubishi MA-0803..

Battery disposal

In compliance with European environmental protection directives, used batteries must be returned to the place of sale, where they are collected free of charge.
Do not dispose of your batteries within household waste.

■ PC cable

The PC cable enables connection of the GSM phone to a Personal Computer in order to exchange data. The PC cable may not be supplied with your phone. Please check this accessory availability with your retailer.

■ Your responsibility

This GSM mobile telephone is your responsibility. Please handle it with care and in respect of local regulations. Please keep it in a safe place at all times and out of reach of children. Familiarise yourself with and use the security features to block unauthorised use. If your phone and/or SIM card are lost or stolen, call your service provider immediately to prevent illegal use. When not in use for a prolong period of time, turn off the phone and remove the battery.

■ Security Code: PIN codes

The phone and SIM card are delivered to you pre-programmed with codes that protect the phone and SIM card against unauthorised use. A short description of each follows. See "Security features" on page 104 to change your PIN and phone lock codes.

PIN and PIN2 codes (4-8 digits)

All SIM cards have a PIN (Personal Identity Number) that protects the card against unauthorised use.

Entering the wrong PIN code three times disables the SIM card and the message **SIM Blocked** is then displayed. Enter your PUK code when **Enter PUK:** appears.

PUK and PUK2 codes (8 digits)

Please contact your service provider for your PUK code. Use it to unblock a disabled SIM card (see "Security features" on page 104).

The PUK2 code is required to unblock the PIN2 code (see above).

Call barring password (4 digits)

This password is used to bar various types of calls, made or received, from the phone (see "Call barring password" on page 104).

Phone lock code (4 digits)

This code is set to 0000 on delivery. You can change it. Once changed it cannot be identified by the manufacturer over the phone. Please refer to "PIN code" on page 104 for more details.

It is advisable that you remember these codes and familiarize yourself with their purpose and operation.

■ Disposing of waste packaging

The packaging used for this phone is made of recyclable materials and as such should be disposed of in accordance with your country's national legislation on the protection of the environment.

Please take care to dispose the cardboard and plastic elements separately in the correct manner.

USING THIS GUIDE

Please read this user guide carefully. It contains information about your phone and the way that it operates on the network. Some of the features described in this user guide are network dependent. Do not forget to check with your service provider which of these you can use. You may need to take out additional subscriptions to activate certain features.

Main screen / External screen

Your M900 is a clamshell-type phone with two colour display screens: an internal screen (Main screen) and an external screen. Both screens are designed to help you enjoy clear information about the phone and network connection status. All features described in this guide are to be reached via the Main screen, unless otherwise specified (e.g.: features related to the Camera and Video applications).

Key actions

To help you quickly familiarise yourself with your phone, these are the keypad and side keys symbols used throughout the guide.

- Ⓞ [OK] key in the middle of the cursor key (to validate OK on the display and to get direct access to the Camera (short press) and Video (long press) applications).
- Ⓜ Left softkey (to validate the item above (usually an action), give direct access to the menu displayed above (short press) and to the softkey function list (long press) from the standby display).
- Right softkey (to validate the action above: usually **Exit** - and give direct access to the menu displayed above (short press) and to the softkey function list (long press) from the standby display).
- ☰ [Menu/T9] key (to access the nine icons Main menu, to switch from the T9 mode to the Multitap mode (and vice-versa) while in edition mode).
- ☎ [Phone book] key gives direct access to the Phone book list from the standby display or the «To» field edition mode, while a call is in progress or to swap from the Phone book names list to the SIM names list.
- Ⓞ [Clear] key (to delete a character in edition mode).
- ➡ [Right] arrow on cursor key
- ➡ [Left] arrow on cursor key
- ⬆ [Up] arrow on cursor key
- ⬇ [Down] arrow on cursor key
- ☎ [Send/Call] key
- Ⓞ [End, On/Off] key
- ⬅ [Up] side key
- ⬇ [Down] side key
- [Menu] side key
- 📷 [Camera/Video] side key



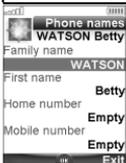
Icons menu

⚠ The availability of the Calendar or Network services menu depends on your SIM card.

User guide notes

Here are the instructions for using this user guide. These are examples. The bold text stands for information displayed while using your phone.

USER GUIDE INFORMATION TYPES	ACTIONS TO PERFORM
Press OK	Press the  key to validate OK (middle of the display).
Press the [Menu/T9] key. Select Settings .	From the standby display press the  key to access the main menu, scroll Up, Down, Left or Right to the Settings menu item and press OK to access the sub-menu.
Select Read (item above left softkey)	Press the  key underneath Read .
Select Exit (item above right softkey)	From the standby display press the  key underneath Exit once to return to the previous screen. Press and hold  to return to the standby screen.
Select Camera/Video	Use the cursor key to scroll up, down, left or right to the required menu item and validate by pressing OK . E.g. 'Select Camera/Video ': scroll to the Camera/Video menu item with the navigation keys (Up  , Down  , Left  , Right ) and press the [OK] key to validate your selection.
Insert 	The  indicates that more options or sub-menus are available when pressing OK .
...	The ... at the beginning or at the end of an Options menu indicates that more options or sub-menus are available by scrolling up or down.



Using the dynamic scroll panels

When scrolling the menu, the following scroll panel type gives you a clear view of the information to be entered.

-  1 The list of elements to be entered is displayed. Scroll down to the field(s) you want to fill in and press **OK**.
-  2 Enter the requested information or select the requested item and select **OK** to validate.
-  3 Fill in as many fields as necessary and select **Save** to store all the information entered.



The arrow keys displayed at the bottom of the screen show the scrolling possibilities.

Understanding the graphic display indicators (icons)

Icons may be displayed at the top of the mobile screen.

The icons indicate the phone's state and operational conditions when in use. The following icons may be displayed:



SIM memory in use



Phone memory in use: refers to information from the Phone book cards.



GPRS service. Data packet services or connection are available.



GPRS connection. GPRS connection is in progress.



GPRS attached. The phone is connected to a GPRS network.



Home zone. The phone is connected to its home network.



Roaming. The phone is connected to a network other than its home network.



Call diverting. All incoming calls are being diverted. Call diverting is network dependent.



Alarm clock.



Vibrator alert.



Keypad lock.



Line 2. The second line is in use (subscription dependent).



Silent mode On.



Mute.



Auto-switch-off/on mode is activated.



Infrared port. The infrared port is active. i.e. that data can be received via the infrared port.



New message reception. One or more messages (SMS or MMS) have been received and not yet read. flashes when the reception box for SMS, MMS and e-mail is full and no new messages can be stored. SMS, MMS and e-mail availability is network dependent.



Voice Mail. A Voice Mail message has been received and stored by the networks Voice Mail centre. Voice Mail availability is network dependent.



Outgoing Call.



Incoming Call.



Withheld number. The caller does not wish his identity to be shown.



Unanswered call. An incoming call has not been answered.



Battery level indicator. Show the current battery charge level. Five levels are shown: from full (5 bars) to low (one bar). If the icon is empty, the phone needs recharging.



Signal strength level. There are five strength levels. These show the strength of the received signal. The more bars, the stronger the signal. If the network cannot be found, no strength level is displayed.



Tegic edition mode.



Multitap edition mode.



Arrow keys. Indicate that more items in the menu can be accessed by pressing

or .



Secured connection. A secured connection is in progress.



Games & Applications. software in use.



Games & Applications. A game or an application is running.



Problem in launching an **application** in Auto Start mode.

Application set as wallpaper. An application is set as wallpaper.



New push message. One or more push messages have been received and not yet read. flashes when the push message box is full and no new message can be stored. Push message availability is network dependent.



Closed user group



Written e-mail with attachment.



Read e-mail with attachment.



Sent e-mail with attachment.



E-mail to be read with attachment.

Light status

At the bottom of the external screen (please refer to Getting started with your M900) several light colours indicate your mobile's state (charging, event on mobile, etc.). The lights can be green, red, yellow or blue. You can activate/deactivate these lights:

MODE	MOBILE ON		MOBILE OFF
	Network available	No network	
Power saver	The green light flashes	The red light flashes	
Incoming call	The blue light flashes		
Missed event (SMS, unanswered call, etc.)	Flashes alternately green and yellow	Flashes alternately red and yellow	
Battery charging	The green light flashes	The red light flashes	The red light is On
Battery charging over	The green light flashes	The red light iflashes	



While charging, the battery charge symbol is displayed. Once charging is over, the screen backlight is turned Off (black screen).

■ Preparing the phone for operation

Please refer to the Getting started with your M900 booklet.

■ Basic operations

Turning the phone On

- 1 Open the clamshell.
- 2 Press and hold the [On/Off] key. A beep sounds at mobile activation. When switching the mobile On for the first time or if the phone has been incorrectly switched off,  may be displayed.
- 3 If your SIM card is PIN protected, **Enter PIN** is displayed. Enter the PIN code and select **OK**.
- 4 If prompted, enter the date & time or select **Exit** to leave existing information unchanged.

 Please refer to "Security Code: PIN codes", page 8 and to "Security features", page 104 for more details on your PIN and lock codes.

If you like to set up a Welcome screen or Welcome melody, please see "Setting a still or animated image to standby display (for the Main screen or the External screen), as a Welcome screen or as a Goodbye screen from the "Pictures folder" on page 71 and "Melodies" on page 72).

Making a call

The phone can make and receive calls only when it is switched on, when a valid SIM card is inserted and when it is connected to a GSM, DCS or PCS network service.

If the keypad is locked you can receive calls but you cannot make any (see "Keypad lock" on page 14) except emergency calls.

To make a call:

- 1 Open the clamshell.
- 2 Dial the phone number or select one from your Phone book (press the [Left] arrow key or the Phone book key from the standby display and select a name).
- 3 Press the [Call/Send] key ( is displayed).

Whilst in conversation an **Options** list (**Speaker On** or **Speaker Off**, **AutoDTMF**, **Hold**, **Retrieve**, **Mute** or **Unmute**, **End call** and **Record**) and **Sp.on** (Speaker On)/**Sp.off** (Speaker Off, after the speaker has been set to On) is available from the left and right softkeys.

You can set the conversation volume by scrolling Up and Down.

In compliance with European regulations, you are obliged to inform your correspondent before recording a phone conversation.

Answering a call

When receiving a phone call ( is displayed):

- 1 Press the [Call/Send] key.
You can also answer a call by opening the clamshell. Please see "active flip", page 98.

When a phone call is received the caller name, number (see "Receiving caller ID", page 102), picture (see "Storing names and telephone numbers", page 44) may be displayed if you created a Phone book card corresponding to this caller.

Rejecting a call

When receiving a phone call:

- ▶ 1 Press the [On/Off] key or close the clamshell to reject the call (the call is then forwarded to your mailbox).

⚠ Closing the clamshell only reject the call if the Active-flip feature is activated (please see page 98).

or:

- ▶ 1 Press the [Camera/Video]  side key if the clamshell is closed.

Ending a call

- ▶ 1 Press the [On/Off] key.
You can also end a call by closing the clamshell. Please see "active flip", page 98.

To stop the ringtone when receiving a phone call

- ▶ 1 Press **No ring** if the clamshell is open or press the [Menu]  side key if the clamshell is closed.

Holding your mobile (while making or receiving a call)

How to hold the phone.



Avoid covering the upper back of the phone to allow maximum emission and reception quality.



⚠ When using the hands free mode, do not put the phone to your ear.



The standby display (Main screen)

When switched On, the phone searches for connection with the network. Once the connection has been established, a beep sounds and the network and/or service provider name or logo are displayed together with the time and date, the signal strength and the battery charge level. If the phone cannot find a valid network, the signal strength and the operator name are not displayed.

On the main screen, the four arrows indicate that features can be accessed via the four arrows on the cursor key.

The camera symbol in the middle of the cursor key indicates that the Camera application (short press) and the Video application (long press) can be accessed by pressing the [OK] key (in the middle of the cursor key).

Message and **Wap** indicate that you can directly access the Messages and Wap feature by pressing the softkeys.



The standby display (External screen)

The provider name as well as the time, the signal strength and the battery charge levels are also displayed on the external screen when the phone is activated.

On both screens,  indicates that your phone is connected to a GPRS network.

Keypad lock

When activated, the keypad lock feature prevents accidental actions occurring (e.g. camera activation) whilst the phone is being carried in a pocket or a bag for instance. Incoming calls can however be received and answered. Once the call is over, the keypad lock is automatically reactivated.

To activate the keypad lock from the standby display:

- ▶ **1** Open the clamshell.
- ▶ **2** Press and hold . **Keypad locked** is displayed.

To activate the keypad lock from the main menu:

- ▶ **1** Open the clamshell.
- ▶ **2** Press the [Menu/T9] key. Select **Settings**.
- ▶ **3** Select **Keypad**, then select **Keypad lock**.

To deactivate the keypad lock:

- ▶ **1** Open the clamshell.
- ▶ **2** Select **Unlock** and press  or press and hold . **Keypad unlocked** is displayed.

Turning the phone Off

- ▶ **1** Open the clamshell.
- ▶ **2** Press and hold the [On/Off] key.

A melody sounds to confirm your action and a Goodbye screen is displayed whilst the phone switches off. You can set a melody and/or a picture to be played/displayed when the phone is switched off (please see "Setting a still or animated image as a standby display (for the Main screen or the External screen), as a Welcome screen or as a Goodbye screen from the Pictures folder", page 71 and "Melodies", page 72).

 Do not take the battery out of the phone without first turning the phone off. Data might be lost. Should this happen a first-aid kit symbol is displayed the next time the phone is activated.

Power saver

When the phone has not been used for more than one minute, the internal and external screens turn Off (black screens). Press any key or open the clamshell to turn the internal and external screens On.

However, this does not prevent any operation on your phone from taking place. You can therefore receive a call, an SMS, etc. whilst the internal and external screens are turned Off.

TOOLS



When scrolling to the Tools menu from the main icons menu, direct access to the Infrared port section is possible by selecting Infrared on the left side of the display.

The **Tools** menu allows access to a diary, a calculator, a currency converter, several alarm clocks and the infrared port opening.

Diary

The Diary is divided into three parts:

- The Calendar (to manage events),
- The Tasks list (to manage tasks),
- The Storage used (to provide the diary memory information).

An event is a diary entry that has a direct implication on your timetable (e.g. a meeting).

A task is a diary entry that has no direct implication on your timetable (e.g. organising a journey).

Calendar

The calendar allows you to store up to 100 events scheduled to occur either once, daily, weekly, monthly or yearly. Each entry can contain up to 50 characters plus a reminder alarm. Events may be viewed on a daily, a weekly or a monthly basis, and may be sent via the Infrared port or by SMS.

To enter an event

- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Diary**.
- 3 Select **Calendar**. A Monthly or Daily view is displayed (the Daily view is displayed if an event is related to the current day).
- 4 Select **Options**.
- 5 Select **New event**.

An empty new event card is displayed with the following fields: Title (up to 10 characters), Description (up to 50 characters), Start date & time, End date & time, Alarm, Location, Repetition.

- 6 Enter or select the requested data. Confirm each entry by pressing **OK**.
- 7 Select **Save** to confirm data storage.

To view the current day's entries



- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Diary**.
- 3 Select **Calendar**.
- 4 Select **Options**.
- 5 Select **View...** and then **Today** to view the current day's entries or select **Day view** to view the selected day's entries.

In the Today view each event is displayed on one line as follows: a graphic representation (A) if an alarm has been set, the event starting time, the first part of the event title, Red events indicated that two or more events clash.

The following actions are available:

ACTIONS	PURPOSE
	To move down to the next event or loop back to the first one
	To move up to the previous event or loop to the last one
	To move to the previous day
	To move to the next day

An Options list is available. It allows you to change the current **View...**, **Create a new event** or

Modify an event, Send it by... infrared port, e-mail and SMS, Export... it, Delete one event or Delete all events.

To view weekly entries



- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Diary**.
- 3 Select **Calendar**.
- 4 Select **Options**.
- 5 Select **View...** and then **Week view**.

The week's events are displayed in chronological order. Each event is represented as a bar (its length depends on its duration). Red indicates clashes. Purple indicates that the alarm has been activated).

The following actions are available:

ACTIONS	PURPOSE
⏴	To move down to the next time interval
⏵	To move up to the next time interval
⏪ (short press)	To move to the previous day
⏪ (long press)	To scroll to the previous week
⏩ (short press)	To move to the following day
⏩ (long press)	To scroll to the following week

An Options list is available. It allows you to change the current **View...**, **Create an event**, **Export...** the **Events** in a defined **period/All events** or **Delete all events**.

To view monthly entries



- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Diary**.
- 3 Select **Calendar**.
- 4 Select **Options**.
- 5 Select **View...** and **Month view**.

The whole month is displayed.

If the selected month is the current one, the date is displayed in a different colour. Colours are used to indicate the days (and alarm activation) of the stored events. The following actions are available:

ACTIONS	PURPOSE
⏴	To move down within the current display
⏵	To move up within the current display
⏪ (short press)	To move to the previous day
⏪ (long press)	To scroll to the previous month
⏩ (short press)	To move to the following day
⏩ (long press)	To scroll to the following month



An Options list is available. It allows you to change the current **View...**, **Create an event**, **Export...** the **Events** in a defined **period/All events** or **Delete all events**.

Tasks list

This feature allows you to store up to 100 tasks to be done (To do), scheduled with a start and a due date, with or without a reminder alarm.

To enter a new task

- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Diary**.
- 3 Select **Tasks list**.
- 4 Select **New task** and enter the required information.

An empty task card is displayed with the following fields: a title (up to 10 characters), a description (up to 50 characters), a start date, a due date, an audio alarm which can be activated at your specified time.

- 5 Enter or select the requested data. Confirm each entry by pressing **OK**.
- 6 Select **Save** to confirm data storage.

To display a tasks list

- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Diary**.
- 3 Select **Tasks list**.
- 4 Select **Current tasks** or **Elapsed tasks**.

The tasks are displayed in a list, ordered by date. If an alarm is activated for a task **A** is displayed. An Options list is available. It allows you to create a **New task**, **Modify** the current **task**, **Send a task by...** **Infrared port** or **by SMS**, to **Export... Tasks in period** or **All tasks**, to **Delete** the current **task** or to **Delete all tasks period**.

Sending an event/a task

The Send by... option allows you to directly send the selected file via the Infrared port, by SMS or by Mail.

- 1 Press **Options** (from the Day, Week or Month view). Scroll down and select **Send by...**
- 2 Select **Infrared port**, **SMS** or **Mail** (if available), then proceed as usual when using these features.

Exporting an event/a task

The **Export...** option allows you to create a file so as to exchange events or tasks with another device such as a PC or another phone. The created file can contain all the events or tasks stored in the calendar or in the tasks list (select **All events/tasks**) or in a time interval (Select **Events/Tasks in period**).

- 1 Press **Options** (from the Day, Week or Month view). Scroll down and select **Export...**
- 2 Select **All events/tasks** or select **Events/Tasks in period** then define the time period (Between / And) and select **Export**.
- 3 The exported file is stored in the **Others** folder of the **Fun & Media box** menu. You can then send it to another device (please see "Others", page 83).



1. The exported calendar or tasks list item is stored as a .vcs file.
2. Once your task/event is exported to the Others folder, a confirmation screen is displayed. Then you can directly send your task/event by selecting the Send by... option.

Alarm notification

The alarm notification screen is displayed at the specified time according to the event or task to which it relates.

If it is not acknowledged, the alarm stops ringing after 60 seconds. It automatically restarts after a snooze time until it is stopped or up to the start/finish time and date of the event/task. If the phone is off at alarm time, it automatically switches on.

If the phone is locked or if the PIN setting is on, the phone returns to this locked state after the alarm has rung until you use it.

- 1 Press **Valid** to acknowledge the alarm or press **Snooze** to repeat the alarm after the snooze period.



Snooze is not available on a task alarm.

Storage used

This feature displays the number of Diary registered events and tasks. The following actions are available in the **Options** menu:

ACTIONS	PURPOSE
Delete events	To delete the events of the defined time period.
Delete tasks	To delete the tasks of the defined time period.
Delete all events	To delete all the events stored in Calendar.
Delete all tasks	To delete the tasks stored in the Diary.

Calculator

This feature allows you to make simple calculations using + (plus), - (minus), * (multiplication), / (division) and % (percentage) functions.

If the currency converter is activated, numbers can be converted during calculations.

To use the calculator

- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Calculator**.
The phone is ready to perform simple calculations.

Press keys ① to ⑨ to enter numbers. Press the \otimes multitap (for further details on the multitap text entry method please see "Entering text / Edition mode", page 24) to get +, -, * and / symbols. Use the $\#$ multitap to enter decimal points or %.

Press the [Clear] key during a calculation to correct an entry. Press = to get the operation result.

Example	144 x 12 = 1728	
	key sequence	display
	① ④ ④	144
	Press \otimes 3x	*
	① ②	12
	= \ominus	1728

In the above example, pressing = again calculates $1728 \times 12 = 20736$

Pressing the [Clear] key deletes the result.

-  The % function can only be used (entered) as the last operation during a calculation.
e.g. $250 - 10\% = 225$

For instruction on setting currency converter, please see "Currency converter" on the same page for details.

Example	using the currency converter £ - €	
	€154 + €3 = £97.1374	
	key sequence	display
	Select Curr.	
	① ⑤ ④ ①	95.2813
	\otimes	+
	③ ①	1.8561
	= \ominus	97.1374

-  1. This example was made on the basis of the following exchange rate: **€1 = £0.61871**
2. The Currency converter feature can be accessed from the Calculator and from the Currency converter sub-menus.

Currency converter

This feature allows currency conversion. The currencies and exchange rates must be entered prior to use. The conversion is calculated on the per unit exchange rate of the second selected currency.

To set up the currencies and the exchange rate

- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Currency converter**.
- 3 Select **Settings**.
- 4 Enter the original currency name (e.g. Euro). Press **OK**.
Enter the target currency name (e.g. Dollar). Press **OK**.
Enter the exchange rate using $\frac{\#}{\#}$ to enter a decimal point.
- 5 Press **OK** to validate the entry. Press **Save** to confirm data storage.

To calculate the conversion between the selected currencies

- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Currency converter**.
- 3 Select the pre-defined currencies from the list.
- 4 Enter the amount to be converted. Press $\frac{\#}{\#}$ to insert a decimal point if needed.
- 5 Press **OK**. The converted amount and the exchange rate information are displayed.

■ Alarm clocks

You can set up up to three different alarm clocks in your phone. They can set to be played once, daily, or on selected days.

To set alarms

- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Alarm clocks**.
- 3 Select **Alarm 1**, **Alarm 2** or **Alarm 3**. Select **On** then enter the alarm time or press **OK** to accept the existing setting.
Select **Repetition** (1, 2 or 3 under the respective Alarm setting) to set up your repetition options. Select **Once** (the alarm will be played once only), **Daily** (the alarm will be played every day at the time set) or **Weekdays** (press **OK** to select the days required, then select **Valid** to validate the days selected and return to the Alarm clocks screen).
A is displayed in main screen after setting is completed.

If the phone is off at alarm time, it automatically switches on.

If the phone is locked or if the PIN setting is on, the phone returns to this locked state after the alarm has rung until you use it again.

If the alarm is acknowledged but not validated after the 3rd (and final) alarm, the alarm indicators remain on the display for up to 15 minutes (the phone then either goes back its previous state, 'on' or 'off').

1. If a call is in progress at alarm time a 'Call in progress' alert beep sounds and a visual alert is displayed every 3 minutes. Validate or acknowledge the alarm in the usual way.
2. If several alarms are set to be played at the same time, the alarm tone is played once only. Any action performed on the phone to acknowledge the alarm tone is then applied to all the alarms.

To use the alarm as a Reminder or a Snooze Alarm

- 1 Press **No ring**, or any other key (except **Valid**, and **OK**) to snooze the alarm. The alarm icon remains on the display and the alarm starts ringing again 3 minutes later.
Or press **Valid** or **OK** to acknowledge the alarm and stop the alarm clock process.

To turn the alarm Off

- 1 Press the [Menu/T9] key. Select **Tools**.
- 2 Select **Alarm clocks**.
- 3 Select **Off**.

■ Infrared port

The infrared port allows you to exchange data between the phone and other devices (provided they have an infrared port).

You can for instance download or send files such as videos, images for your Standby display (see "Pictures", page 71), send or receive name cards,...

You can send files via the Infrared port from several menus or sub-menus (e.g. by selecting Options after having captured a picture, then by selecting Send by... Infrared port).

To initiate a transfer via the infrared port, your phone must be facing another infrared port. Both ports can then be opened and synchronised. The requested transfer can then be performed. Files (e.g name cards) are transferred one by one.

Opening the Infrared port

- ▶ **1** Place your phone directly opposite the infrared port of the other device.
 - ▶ **2** Press the [Menu/T9] key. Select **Tools**.
 - ▶ **3** Select **Infrared port**. The infrared port opens and the phone automatically acknowledges the state of the opposite infrared port.
- ⚠ 1. If the infrared port is already open, selecting the Infrared port item closes it.
2. The Infrared port cannot be opened while using the Camera or the Video applications. The Infrared port is automatically closed when accessing the Camera or Video applications.

Transferring a name card via the infrared port

You can transfer a name card via the infrared port:

- ▶ **1** Place your phone directly opposite the infrared port of the other device.
- ▶ **2** Open the infrared port of the other device.
- ▶ **3** Select the card you wish to transfer as explained in the section "Viewing and calling Phone book numbers", page 50.
- ▶ **4** Select **Options**. Select **Send by... Infrared port**.
The infrared port opens and the transfer is performed.

■ Using your mobile as a modem

You can use your phone as a modem for other devices (PC, PDA,...) via the infrared port (on both devices) or via a PC cable. In order to activate a connection, a standard modem driver must already be installed in the other appliance:

- ▶ **1** Install the PC cable or open the infrared port on your PC or PDA.
 - ▶ **2** Install the modem driver.
 - ▶ **3** Configure the PC according to the instructions given with the modem driver.
Please enter the following parameters:
 - Flow control: Hardware
 - Data Bits: 8
 - Parity: No parity
 - Stop Bit: 1 stop Bit
 - Speed: 921000b/s
- ⚠ 1. The PC cable may not be supplied with your phone. Please ask your retailer for an M900 compatible PC cable.
2. The compatibility between GPRS and WAP™ features is operator dependent.

Your mobile:

- ▶ **1** Plug in the PC cable (please refer to the Getting Started with your M900 booklet).
- or:
- ▶ **1** Open your mobile Infrared port.
- ⚠ If your phone is set to Modem mode, (Please see "Operation mode", page 102) all incoming calls are rejected. If your phone is not set to Modem mode, your Internet connection may be interrupted by incoming calls.

Once both devices are ready, the Internet connection can be activated (without any action being performed on your phone).

■ MetaFile Exchange

The MetaFile Exchange (MFE) feature allows to exchange files between the phone and the PC via the infrared port or a PC cable :

- ▶ **1** Install the corresponding application on your PC (Please ask your retailer).
 - ▶ **2** Install the PC cable or open the infrared port on you PC and on your phone.
 - ▶ **3** Navigate in your multimedia files. You can send files from the PC to the target multimedia folders (Pictures, Melodies, Videos, Music, Speech notes and Others) and from the multimedia folders to the PC.
- ⚠ The phone must be in idle state.

MESSAGES/TEXT EDITING



This section describes the features about Short Message Service under the Messages menu.

The Short Message Service (SMS) allows you to send or receive text messages to or from other mobile phones. You can store, edit and forward messages as well as save any of the numbers, mail addresses, web site addresses they may contain.

These SMS are stored on the phone memory; they may also be stored in the SIM card if they are sent by a service provider.

You can also access the Messages menu by pressing and holding the [Mail] softkey from the standby display.

Please refer to the MMS and Mail sections (page31 and page37) for full information on MMS and e-mails.

■ Contents of the Messages menu

Your phone enable you to manage three message types: SMS, MMS and e-mails. A summary of unread message is displayed in the Messages menu for your quick access.

To select one of these message types:

- 1 Press the [Menu/T9] key. Select **Messages**
- 2 Select **SMS, MMS** or **e-mail**.
A number is displayed on the SMS and MMS and e-mail lines, on the right of the screen. It indicates the number of unread received messages in the corresponding Inbox folder.

■ Reading a received SMS message

When the phone receives an SMS message, a new SMS alert beep or melody sounds and  is displayed on the Standby display. The message is automatically stored in the phone or in the SIM card. A flashing  indicates that the SIM or the phone memory are full and cannot store any further messages. Delete messages to allow new messages to be delivered.

- 1 Press **Read** to read new messages (from the standby display only).
- 2 Press **Options** to **View, Reply, Reply (+text), Delete, Delete all, Forward, Move to SIM, Numbers & addresses** (to store or call the number(s) contained in the SMS header or text, or store the mail or web address contained in the message text. All the message characters that are displayed between «» can also be stored on your phone).



1. According to the selected item, another Options list may be available so that you can proceed with the action.
2. If you select a melody as a new SMS alert (please see "Melodies", page 74), press the [OK] key to acknowledge receipt of the new incoming SMS and to stop the melody.

■ Reading stored SMS messages

- 1 Press the [Menu/T9] key. Select **Messages**. Or press and hold the **Mail** softkey.
- 2 Select **SMS**.
- 3 Select **Inbox** or **SIM archive** then select **Received messages** to display the message list. Use the arrow key to scroll up and down and access the message you want to read.
- 4 Select **OK** or **Options/View** to read the message text.

Unread messages are indicated by the  icon + bold text. Messages that have already been read are indicated by .

■ Moving messages to SIM

It is possible to move a message from the Inbox or the Outbox to the SIM memory. However, according to the message size, the message may be truncated (the 160 first characters only are moved to the SIM memory). The sending date (for sent messages) and the 'Copy to' addressees are lost when moving the message to the SIM memory.

To move a message to the SIM memory:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **SMS**.
- 3 Select **Inbox** or **Outbox**.
- 4 Choose the message to be moved and select **Options**.
- 5 Select **Move to SIM**.

■ Forwarding messages

You can forward a received message to other people/number(s):

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **SMS**.
- 3 Select **Inbox** or **SIM archive/Received messages**.
- 4 Select the message to be forwarded and select **Options**.
- 5 Select **Forward**.
- 6 Press **OK**. Select the **To** field and select one of the displayed names or in the Phone book list select **Options** then **New** or **Other folder** if you want to send your message to another mobile number. Press **OK** to validate.
- 7 In the **Text** field enter the message text (see "Entering text / Edition mode", page 24) or select one of the models (**Models**) and press **OK**.
- 8 If you want to send the message to several addressees, enter one or several phone numbers/names in the **Copy to** list (up to 4 more addressees) and press **OK** then **Valid** to return to the previous screen.
- 9 Select **Options**.
- 10 Select **Send, Store & send** or **Store**.
- 11 A warning message displays the number of SMS needed to send the message if it is more than one. Select **Go on** if you want to send the message or select **Cancel** if you do not want to send it or if you want to amend your message.

■ Activating or deactivating the message alert tone

Each time a message is received, a new SMS alert tone sounds. To activate or deactivate this tone:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **Parameters**.
- 3 Select **Reception alert**.
- 4 Select **On** or **Off**, and select the required melody.



You can personalise the Message alert tone (please see Melodies, page 74).

■ Preparing the phone to send SMS messages

Before sending your first SMS or if you want to register a new profile, the network SMS centre number (obtainable from your service provider) must be stored:

FIELDS	DESCRIPTION	DEFAULT
Name	To enter the profile name.	Profile1
Message centre	To enter the centre number.	Empty
Format	To set the message format: text, voice, fax or paging.	Text
Validity period	Time the message remains at the message centre until delivered.	Maximum

- ▶ 1 Press the [Menu/T9] key. Select **Messages**.
 - 2 Select **SMS**.
 - 3 Select **Settings**.
 - 4 Select **Sending profile**.
 - 5 Enter the message centre number or select a template (if several available) then enter the following fields (operator dependent).
- ⚠ You may not be allowed to change your sending profile (format and validity period). Please contact your service provider for further details.
- 6 Select **Save** to validate.

The SMS centre number may already be available in your SIM card and may be automatically displayed. If you want to select a Sending profile for your message:

- ▶ 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **SMS**.
- 3 Select **Settings**.
- 4 Select **Sending profile** and select the profile you want to use. Select **Options**.
- 5 Select **Select**.

■ Entering text / Edition mode

All the settings described in this part are to be done from an edition screen.



Some features and functions (storing names in the Phone book, typing SMS text messages, writing a mail, Tools, Settings,...) require you to know how to enter and edit text in the display, to insert special characters or mail icons, to copy and paste text, etc.

Three edition modes are available. They are indicated on the left-hand side of the screen by in lower case mode, by in upper case mode and by in third character toggle mode (the first typed character is an upper case then the others are lower cases). Text and figures and alphabet characters can then be entered or edited directly from the keypad.

To switch from one mode to another:

- ▶ 1 Select **Options**
- 2 Select **Lowercase** if the current mode is upper case mode or select **Uppercase** if the current mode is lower case.

⚠ When in lower case, on T9 mode or on Multi-tap mode, the Next character toggle mode is automatically set when required, according to the context (i.e. after a full stop or after ? or ! followed by a space for instance).

There are three input modes to enter text or figures: the Multi-tap (or Multipress) key method, the quicker intuitive method, called T9 text input and the Numeric mode (to type numbers).

To select an edition mode:

- ▶ 1 Press the [Menu/T9] key to swap modes (T9 to Multi-tap/Multi-tap to T9).

or:

- ▶ 1 Select **Options**
- 2 Select **Edition mode**.
- 3 Select **T9, Multi-tap or Numeric**.

When in T9 mode, is displayed on the upper part of the display to indicate that T9 is the current mode. When on Multitap mode, is displayed on the upper part of the display to indicate that Multitap is the current mode.

The multitap/multipress method

A brief press on a key displays the first character associated with the key and shows the other available characters at the top of the display. Here is the list of the available characters (the available characters list is language dependent):

KEY	CHARACTER
	Lower case Upper case
①	. , - ' @ : ? / _ 1
②	a b c 2 A B C 2
③	d e f 3 D E F 3
④	g h i 4 G H I 4
⑤	j k l 5 J K L 5
⑥	m n o 6 M N O 6
⑦	p q r s 7 P Q R S 7
⑧	t u v 8 T U V 8
⑨	w x y z 9 W X Y Z 9
⑩	0
* (star)	Short press: Swap between the Lower case and the next character toggle mode. Long press: Swap between the Upper case, Lower case.
# (hash)	Short press: to enter a space. Long press: to access special characters.
← (left arrow)	Short press: moves the cursor through the text one place to the left or to the right. Long press: moves the cursor to the text beginning or end.
→ (right arrow)	To move the cursor to the text beginning or end.
↵ (return)	Swap between the Multitap/Multipress method and the T9 text input.

To enter text, press the key bearing the required character until it appears in the display. Holding the key displays the figure corresponding to the key. If you need to use two characters from the same key, wait for a few seconds after entering the first character (until the key characters on the upper part of the screen are cleared) or press the right arrow key before pressing the key again.

Correct mistakes by a short press on the [Clear]  key.

Holding the [Clear]  key deletes all the text. Use the left or right arrow keys to move the cursor in the text.

Multitap method:

Example To type **Card**:

Press the [Menu/T9] key and select **Messages**.

Select **SMS**.

Select **Write new**.

Fill in the **To** field (see "Sending a new SMS message", page 28).

In the **Text** field, press on the [Menu/T9] key until **abc** is displayed, or select **Options**, then **Input mode** and choose **Multi-tap**.

Press ② briefly three times, **C** is displayed.

Press # until **ab** is displayed. Press ② once, **a** is displayed

Press ⑦ three times, **r** is displayed

Press ③ once, **d** is displayed. The word **Card** is now displayed.

The T9 method

A press on the [Menu/T9] key allows you to swap between T9 text entry and the Multitap method.

- 1 Press the key bearing the required letter once only (the requested character may not be displayed first).
- 2 The active word changes as you enter text. Enter all the word characters up to the end of the word.
- 3 If the right word is not displayed when all the characters have been entered, press **⓪** until you get the required word.
- 4 If the requested word does not correspond to the one displayed, press the [Menu/T9] key to swap to the Multi-tap mode and enter the correct letters.
- 5 Use the [Left] or [Right] arrow keys to move the cursor around the text to insert or delete characters.

Tips and Operation:

KEY	ACTION
⊛	Short press: Swap between the Lower case and the next character toggle mode. Long press: Swap between the Upper case, Lower case.
[M]	Swap between the Multitap/Multipress method and the T9 text input.
[CLR]	Clear or backspace
#	Short press: to enter a space. Long press: to access special characters.
⓪	Another matching word
Ⓛ	Smart punctuation
Ⓛ Ⓛ	Short press: moves the cursor to the beginning Ⓛ or end Ⓛ of each word. Long press: moves the cursor to beginning Ⓛ or end Ⓛ of the text.
Ⓛ Ⓛ	To move the cursor to the beginning or end of the text.

- Example** To write **card**:
Press the [Menu/T9] key and select **Messages**.
Select **SMS**.
Select **Write new**.
Fill in the **To** field (see "Sending a new SMS message", page 28).
In the **Text** field, press on the [Menu/T9] key until **Ⓛ** is displayed, or select **Options**, then **Input mode** and choose **T9**.
Press **Ⓛ**, **A** appears.
Press **Ⓛ**, **Cc** appears.
Press **Ⓛ**, **Car** appears.
Press **Ⓛ**, **Case** appears.
If the displayed word is not the one you want, press **⓪** as many times as necessary to view **Card**.

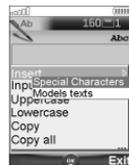
- ⚠** To insert a text symbol such as :) or :-) or press **Ⓛ** two or three times. Press **⓪** as many times as necessary to change the symbol to :(or :-:(etc.

Inserting special characters or text

You can insert special characters, pre-stored text models,... while using the edition mode.

Some of the elements listed below are examples and may vary according to the edition context.

To insert special characters:



- 1 Select **Options**, then select **Insert**.
- 2 Select **Special characters**.
Scroll up, down, left or right and press OK to select the required special character.

or:



- 1 Press and hold the key to display the special characters list.
- 2 Scroll up, down, left or right and press OK to select the required special character.

The symbol may not be displayed from all edition modes. It allows you to go to the following line.

To insert a text model:

- 1 Select **Options**.
- 2 Select **Insert**.
- 3 Select **Text models**. Select one from the list.
For more information on this feature, please see "Creating text models", page 28.

This option is only available from messages edition modes (it is not available in numeric edition modes, while writing a mail address, etc.)

Text copy and paste

You can copy a text or part of a text so as to paste it into another edition context (or into the source edition context). The copied text remains stored in the phone memory until the phone is turned off or until another Copy action is performed. You can therefore paste it as many times as you wish.

To copy part of a text:

- 1 From an edition screen (e.g.: while writing a mail, an MMS, an SMS, a Phone book card,...), select **Options**.
- 2 Select **Copy** (you can also access the Copy option from the edition screen by pressing the [Up] side key).
- 3 Scroll right or left ([Right]/[Left] arrow keys or up/down side keys) to select the required part of the text to be copied (the selected text is displayed in blue colour). Select **Copy**, press **OK** or press the [Up] side key. The selected text is copied into the phone memory.

1. The Copy option is not available in numeric edition modes. It is however available while using the numeric mode in an alpha-numeric edition context.
2. The Copy all option only is available in numeric edition mode. It therefore copies the full displayed number.

To copy all the text

- 1 From an edition screen (e.g.: while writing a mail, an MMS, an SMS, a Phone book card,...), select **Options**.
- 2 Select **Copy all**.
The whole edition screen content is copied into the phone memory.

or:

- 1 From an edition screen (e.g.: while writing a mail, an MMS, an SMS, a Phone book card,...), press and hold the [Up] side key.
The whole edition screen content is copied into the phone memory.

To paste the copied text:

- 1 From an edition screen (e.g.: while writing a mail, an MMS, an SMS, a Phone book card,...), move your cursor to the required location. Select **Options**.
- 2 Select **Paste**. The previously copied text is pasted.

or:

- 1 From an edition screen (e.g.: while writing a mail, an MMS, an SMS, a Phone book card,...), move your cursor to the required location then press the [Down] side key.

1. If the copied text is too long to be inserted into the available space on the target edition mode (e.g. maximum SMS allowed size reached), the text to be copied is not fully pasted.
2. You cannot paste a copied text if the text characters are not supported by the target edition context (e.g. an alphanumeric text in a numeric edition context, such as a text from an SMS edition screen to phone number field).

■ Sending a new SMS message

You can send message texts (up to 918 characters). The standard size for an SMS is 160 characters (your service provider charges you according to the number of SMS used to send your message). The  icon (1 = number of SMS used - it is updated while writing your message and shows the number of SMS needed to send your message) is displayed on the left corner of the screen.

To send SMS from the Menu:

- 1 Press the [Menu/T9] key. Select **Messages**.
 - 2 Select **SMS**.
 - 3 Select **Write new**.
 - 4 Select the **To** field and choose one of the displayed names, or in the Phone book list select **Options** then **New** or **Other folder** if you want to send your message to another mobile number (directly enter the number). Press **OK** to validate.
 - 5 In the **Text** field, enter the message text (see "Entering text / Edition mode", page 24) or select one of the models (**Text models**) and press **OK**.
 - 6 If you want to send the message to several addressees, enter one or several phone numbers/names in the **Copy to** list (up to 4 more addressees) and press **OK** then **Valid** to return to the previous screen.
 - 7 Select **Options**.
 - 8 Select **Send, Store & send** or **Store**.
 - 9 A warning message displays the number of SMS needed to send the message if it is more than one. Select **Go on** if you want to send the message or select **Cancel** if you do not want to send it or if you want to amend your message.
-  1. If you have registered an automatic signature, the number of characters used is automatically added to the message length.
2. Once in the phone number editor, Names allows to access the phonebook list to select a name.
 3. If a name is already stored in the 'To' list, pressing OK or one of the 0 to 9 keys again displays an Options list (Modify: to change the selected number or e-mail address; New selection: to select a new name from the name list; and Delete.)
 4. Please go through the same process as to enter names into the 'To' field to enter names in the 'Copy to' field.

To send SMS from the standby display:

- 1 Press the [left] arrow key to access the Phone book. Scroll to one of the available names or numbers.
- 2 Select **Options**.
- 3 Scroll down and select **Send a message...**
- 4 Select **SMS**, then proceed as described above.

or:

- 1 Press and hold the  key.
- 2 Select **Write new**, then proceed as described above.

■ Creating text models

You can create a set of messages to be used as models. These texts can contain up to 50 characters and text can be added when you want to use them. These templates are stored in the phone memory. To create text models:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **Text models**.
- 3 Choose any blank template ([...]) and press **OK**.
- 4 Enter the template text and press **OK**.

■ Editing a text model

You can modify a text model:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **Text models**.
- 3 Select the text model to be modified and press **OK**.
- 4 Edit the text and press **OK**.

■ Signature

You can register a signature to be automatically added to your text messages. The signature is not displayed when typing the message text but it is displayed on message reception by the addressee. The maximum size for the signature is 30 characters. If the message text to be sent already contains 918 characters, the signature cannot be added.

To register a signature:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **SMS**.
- 3 Select **Settings**.
- 4 Select **Signature**.
- 5 Select **Insert in message**. Select **Yes**.
- 6 Select **Text** and enter your signature text.
- 7 Select **Save** to store your signature.

■ Outbox and SIM archive emitted messages

The Outbox contains stored sent messages (delivered or undelivered). The SIM archive contains unsent draft messages and stored sent messages (delivered or undelivered). These messages can be selected from the outbox or SIM archive menu and can be modified and resent as new SMS messages.

To select one of these messages:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **SMS**.
- 3 Select **Outbox** or select **SIM archive** then **Emitted messages** and use the [Up] or [Down] arrow keys to scroll to the required message. Messages are either 'transmitted' or 'to be sent'.
- 4 Press **Options** to **View**, **Delete**, **Delete all** (for Outbox messages only), **Status** (for sent messages only), **Send**, **Send as mail**, **Edit**, **Move to SIM** (for outbox messages only), **Move to phone** (for SIM archive emitted messages only), **Numbers & addresses** (to store or call the number(s) contained in the SMS header or text) or **Details**.

Sent messages are indicated by the  icon. Sent messages that have received a return receipt are indicated by .

■ Draft messages

The Drafts folder contains the written messages that were not sent. You can edit these messages and/or send them.

To select one of these messages:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **SMS**.
- 3 Select **Drafts** and use the [up] or [down] arrow keys to scroll to the required message.
- 4 Press **Options** to **View**, **Delete**, **Delete all**, **Send**, **Edit**, **Edit a copy**, **Move to SIM** (for outbox messages only), **Numbers & addresses** (to store or call the number(s) contained in the SMS header or text) or **Details**.

Written but not sent messages are indicated by the .

■ Status request

If a status is requested on a sent message, a status request is sent to the network (must be network supported). If the status is requested on a delivered message, the date and time of delivery may be shown. The network then answers by sending a status report (SR) back to the phone. Press **OK** to acknowledge it.

To activate the status request:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **SMS**.
- 3 Select **Settings**.
- 4 Select **Message config**.
- 5 Select **Delivery report** and select **On**.
- 6 Select **Save**.

To request a reply:

A reply to your message can be requested from your correspondent. If you activate this feature, you will be charged for the cost of the reply message.
The availability of this feature is operator dependent.

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **SMS**.
- 3 Select **Settings**.
- 4 Select **Message config**.
- 5 Select **Reply requested** and select **On**.
- 6 Select **Save**.

To read the sent message, delete or re-send it when receiving the status:

- 1 Press **Options**. **Send again**, **Clear**, **Associated message** or **Delete message** is displayed.
- 2 Select the required action.

■ Voice mail

Your network provider may offer a Voice Mail service which operates like an answering machine. You may be able to access it directly by pressing and holding the **ⓞ**.
Contact your service provider for further details.

Storing a voice mail centre number

If your SIM card does not contain the Voice Mail centre number, you must store it manually:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **Parameters**.
- 2 Select **Voice Mail**.
- 3 Select **Number**. Enter the number (either by keying it or selecting **Options** then **Names** list).
- 4 Press **OK** to validate.



1. The Voice Mail number is automatically assigned to speed dial location number 1 (see "Speed dial", page 99).
2. If you subscribe to the 'Line 2' service, an additional Voice Mail centre number must be stored separately.

Activating/deactivating the voice mail alert tone

If you wish to be advised by a tone when receiving a new Voice Mail message:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **Parameters**.
- 2 Select **Voice Mail**.
- 3 Select **Alert**. Select **On**.



The availability of this feature is operator dependent.

Calling the voice mail centre to check your messages

You can either:

- Dial the Voice Mail centre number directly after receiving a message:

- 1 From the standby display, press and hold **ⓞ**.

- or:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **Parameters**.
- 2 Select **Voice Mail**.
- 3 Select **Call**.

■ Storage consumption

The storage status for SMS messages can be consulted.

To view the number of messages stored, the total available space on the Phone memory and on the SIM card:

- ▶ **1** Press the [Menu/T9] key. Select **Messages**.
- 2** Select **SMS**.
- 3** Select **Storage used**. The **SMS memory used** is displayed. Scroll down to access the **SIM archive**.
- 4** Select **Details** for more information on the Phone and SIM stored messages (use [up] and [down] arrow keys to scroll to the required information).

MULTIMEDIA MESSAGES



The Multimedia Messages Service (MMS) is a service that allows the sending and receiving of messages to and from other MMS enabled mobile phones. The main difference between an SMS and an MMS is the MMS is composed of one or several pages made of text + image(s) and sounds (melody, MP3 files, videos or speech notes).



The reception quality of a Multimedia message content may vary depends on the addressee's mobile phone.

The protocol that is used to transfer the multimedia messages is the Wap™ protocol; you therefore need a Data subscription (see "Wap™", page 90) to send and receive multimedia messages.

The sending and receiving of a Multimedia message imply the launching of a connection via an MMS centre. Please contact your service provider to get full information on the subscription conditions.

The receiving of a Multimedia message implies two steps:

- The receiving of a message notification bearing (optionally) the sender's name, the message subject and size and its validity duration on the MMS centre.

- The retrieval of the corresponding message from the network (on request).

Multimedia message(s) may already be stored in your phone at mobile first use. This depends on your service provider.

■ Reading a received MMS message

When the phone receives an MMS a new alert tone sounds and  or the New message information is displayed.

If  flashes, it indicates the SIM or the phone memory are full and cannot store any other messages. Delete SMS or Multimedia messages to allow new messages to be delivered.

- 1 Press **Red** to read your new message(s) or message notification(s).
- 2 When receiving a message notification choose whether or not to retrieve the Multimedia message from the network (select **Options** then **Retrieve message** and **Yes**).
- 3 Scroll down to **Next page** if your message bears several pages and select **OK**.

The notification and the retrieved message are automatically stored in the Inbox.

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **MMS**.
- 3 Select **Inbox** to display the MMS list. Use the arrow keys to scroll up and down and reach the message you want to read.
Selecting **Options** allows access to **View**, **Reply**, **Reply all**, **Reply by SMS** (please see "Sending a new SMS message", page 28), **Delete**, **Delete all**, **Forward**, **Numbers & Addresses** (to store the number(s) and/or e-mail address contained in the MMS header) and **Details** (to view the Multimedia message header contents).
- 4 Select **OK** or **Options/View** to read the message.



1. You cannot modify the contents of a received Multimedia message.
2. if the selected message is a notification the available options are: Retrieve message, Reject, Delete, Delete all, Numbers & Addresses and Details.
3. if the selected message is a delivery report the available options are: View, Delete, Delete all and Numbers & Addresses.
4. An 'Attachment' option is available while viewing the selected message. You can then store the message attached files

Unread messages are shown by  and the text is bold. Messages that have been already read are shown by .

Multimedia message notifications are shown by  and delivery messages by .

■ Saving received multimedia message content

You can store the images, melodies, videos, events, tasks and speech notes attached to the received multimedia messages into the Fun & media box. When reading a received Multimedia message:

- 1 Select **Options**.
 - 2 Select **Attachment**.
 - 3 Select **Options**.
 - 4 Select **Store**.
- ⚠ According to the attached item the Options sub-menu allows to view or store the attachment contents.

■ Writing and sending a multimedia message

To write a Multimedia message:

- 1 Press the [Menu/T9] key. Select **Messages**.
 - 2 Select **Multimedia messages**.
 - 3 Select **Write new**.
 - 4 Fill in the required information in the Multimedia card (please see below) and select **Options**.
 - 5 Select **Send**, **Send & Store**, **Store** or **Adjust config**, before sending the message and press **OK**.
- ⚠ The Adjust config. settings (to require a delivery report, a read reply report, to add a priority level or a delivery time to your message) only apply to the edited message before they are sent. The Message config. parameters are the default settings (see "Setting multimedia messages characteristics", page 35).

■ Filling in the multimedia message card fields

In the Multimedia card (see "Writing and sending a multimedia message" above) the following fields have to be filled in:

To

You can send your message to several people (main addressees plus 'Copy to' addressees). Please check the maximum number with your service provider.

- 1 Selecting **OK** gives direct access to the phonebook.
 - 2 Choose one of the displayed names or select **New** if you want to send your message to another phone number or e-mail address (directly type the number or address in). You can also press any of the 0 to 9 keys to type a new phone number or an e-mail address.
 - 3 Select an empty item [...] to add another addressee or select **Valid**, to get back to the Multimedia card.
- ⚠ 1. If the selected phonebook card contains several data you are requested to choose one from the stored numbers or e-mail addresses (e.g. home number, e-mail address,...).
2. If a name is already stored in the 'To' list, pressing OK or one of the 0 to 9 keys again displays an Options list (Modify: to change the selected number or e-mail address; New selection: to select a new name from the name list; Delete and Delete all.)
3. To add names in the Copy to field, the process is the same as for the To field.

Subject

Type in your message subject text (40 characters max.). Please see "Entering text / Edition mode", page 23.

- ⚠ The subject text is displayed in the message notification sent to the addressee (if supported by the addressee's phone).

Content



The following screen is displayed (it allows you to edit your message pages):
Displayed symbols (upper part of the screen):

- ◀ The previous page can be reached by pressing the left arrow key.
- ▶ The next page can be reached by pressing the right arrow key.
- + One or several pages can be added next by pressing the right arrow key.
- ▬ Remaining space (displayed dynamically while composing the message).

04Kb	Estimated message size (displayed dynamically while composing the message).
01/04	Current page number.
	A melody is attached to the current page.
	A speech note is attached to the current page.
MP3	A music file is attached to the current page.

The black squared field shows the active field (Pictures or Text fields). Press the down arrow key to scroll to the next field and select **OK** to edit it.

To attach an image or a video

You can attach images to your Multimedia message. These images have to be .jpg, .gif (animated or not animated), or .wbmp.

The size of the Multimedia messages you can send is operator dependent. However, by default, the maximum size cannot exceed 100 Kb.

- 1 When on the picture field press **OK**.
- 2 Select **Video** or **Picture**.
- 2 Select one of the available videos or pictures from the list and press **OK** or press **Options** then **Camera** or **Video** to take a new picture.
The selected image or video is partly displayed in the picture field.

-  1. You can send any of the Pictures or videos unless the file is copyright protected (the 'File protected' message is then displayed).
2. The 'No picture' or 'No video' item from the Pictures list or Video list allows to delete the current page image.
3. 'Too many data for message sending' is displayed on image selection if its size exceeds the message sending capacity.

To attach a melody, a music or a speech note

You can attach melodies, music (MP3 melodies) and speech notes to your Multimedia message.

The size of the Multimedia messages you can send is operator dependent. However the maximum size cannot exceed 100 Kb.

- 1 When on the picture field or on the text field, select **Options**.
- 2 Select **Add sound** then select **Melodies**, **Music** or **Speech notes**. Select the required melodies or speech note in the displayed list.
The selected melody , music **MP3** or speech note  is attached to the message.

-  1. You can send any of the Melodies or Speech notes unless the file is copyright protected (the 'File protected' message is then displayed).
2. 'Too many data for message sending' is displayed on melody or speech note selection if its size exceeds the message sending capacity.
3. It is not possible to add a sound when a video is already included in the current page.

To write text

- 1 Select the text field.
- 2 Type in your page text (240 characters per page max.): please see "Entering text / Edition mode", page 23.
Press **OK** or select **Models** (left softkey), then choose one of the displayed messages.

-  1. 'Too many data for message sending' is displayed on text insertion if its size exceeds the message sending capacity.
2. You can amend the Models text once you have selected one.
3. You cannot insert a Chinese text model if your mobile edition mode is set to English.

To edit and modify the page contents

- 1 Select **Options**. The following list is displayed:

OPTION	ACTION
Validate	To validate the informations of the Content field and get back to the message composer.
Page options	To modify the text size (Small, Normal or Large), the text colour, the background colour and set the page timer (default timer = 3 seconds). The timer allows to set the time the page is displayed before switching to the following one.
Add sound	To add a melody from the Melodies list, a MP3 melody from the Music list or a speech note from the Speech notes list.

Delete sound	To delete the page attached Melody, Music or Speech note.
Invert layout	To invert the text and the image location on the page.
Insert page	To insert a new page or duplicate the current page (9 pages maximum).
Delete page	To delete the current page.
Preview message	To view the full message contents.

-  1. The 'Too many data for message sending' message is displayed on image, melody, music, video, speech note and text selection if the size of the selected file exceeds the message sending capacity
 2. The 'validate' option is not available when you only have one empty page in your Content field.
 3. The contents of this Options menu depends on the contents of the current page.

-  2 Select **Exit** to come back to the composition of the MMS or select **Validate** to come back to the card fields.

-  Do not forget to check the message size before sending it (see the estimated size in the right upper corner of the screen).

To add one or several pages

-  1 Press the right arrow key on the last page of your message.
 2 Select **New page**.

or

-  1 Select **Options**.
 2 Scroll down to **Insert page** and press **OK**.
 3 Select **New page**.

-  A Multimedia message can be up to 9 pages.

To duplicate a page

You may need to duplicate a page in order to modify its contents for instance. The new page bears the same characteristics (e.g: text colour) which allows to save time when writing a Multimedia message.

-  1 Press right arrow key on the last page of your message.
 2 Select **Duplicate page**.

or

-  1 Press **Options**.
 2 Scroll down to **Insert page** and press **OK**.
 3 Select **Duplicate page**.

To delete the page content

-  1 Select **Clear** to come back to an empty Multimedia card.

-  If the selected page is already empty selecting Clear leads to the 'Delete page' action.

Name card

The name card field allows to attach a copy of a vcard to the multimedia message.

-  1 Select the **Name card** list
 2 Select a name in the phonebook. A copy of the vcard is then attached to the message

-  1. If there is already an attached vcard, pressing OK displays the Modify and Delete options.
 2. The selected card is automatically renamed if it contains Chinese characters.

Copy to

Please see the 'To' section on page 32.

■ Preparing the phone to send MMS messages

The Multimedia Message service is subscription and network dependent. The operator profile details may already be stored on your phone. If not, please contact your service provider to get them.

The profile list can contain up to 3 MMS profiles. A profile is a list of parameters that allow MMS connections via a specific gateway.

To enter and store the profile details

You can only register profile details if you have previously registered profiles in the Connection manager menu (see "Connection manager", page 101):

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **Multimedia messages**.
- 3 Select **Settings**.
- 4 Select **MMS profiles**.
- 5 Choose an empty profile (...) and press **OK**.
- 6 Enter the profile name and press **OK**.
- 7 Select **Message centre**. Select **List** to select one of the available home page addresses or the http:// and https:// root address, or type in the URL address. Press **OK**.
- 8 Select **Connection profiles**. Enter the requested information (the GSM connection and GPRS connection fields are linked to the Connection manager and thus allow to pick one from the displayed list - see "Connection manager", page 101). Select **Save** to store the data.
- 9 Select **Gateway settings** and type in the IP address.
The sending and receiving of MMS is now possible.
- 10 Select **Advanced settings** and fill in the required fields.



1. All the requested parameters are obtainable from your network operator and/or Wap™ provider.
2. The phone number or access point name, the login and the password are to be stored in the Connection Manager (see Table , page 101).
3. Access to the content of the MMS profile may depend on the pre-programmation of the settings. The connection settings menu may not be available in some cases. These settings may be 'Locked' (operator dependent) and not be user programmable.
4. Your service provider may require to have the security context reset. Select Yes.
5. For more information on the Advanced settings please refer to "Advanced settings on Wap™ profiles", page 94.
6. The Validity period for an MMS is the maximum time the message is available on the network before it can be retrieved by the addressee. The validity period is set to Maximum by default. This feature is present in the Advanced settings (page 94).
7. When on an existing profile the options Select, View, Delete and Reset security context are available.

Setting multimedia messages characteristics

Before sending a message you can determine whether or not you want to receive a delivery report, a read reply report (to confirm your message and its contents were read by the addressee), to set a priority degree (high, normal or low) and a maximum picture size to your message.

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **MMS**.
- 3 Select **Settings**.
- 4 Select **Message config**.
- 5 Enter the required information and select **Save** to store your settings.



The availability of this menu and of its contents is operator dependent.

Signature

The MMS application has its own signature independent from the SMS or e-mail ones (please see "Signature", page 29).

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **MMS**.
- 3 Select **Settings**.
- 4 Select **Signature**
- 5 Select **Insert in message** and select Text or Name card.
- 6 Select **Text** or **Name Card** according to your previous choice and enter your signature text or select the phonecard to be add to the MMS, it can be either My card or any other phonecard.

Message auto-retrieval

You may choose whether or not the Multimedia messages should be automatically retrieved from the network on notification receipt.

The auto-retrieval modes are the following:

On	The Multimedia message is automatically retrieved from the network on notification receipt.
On (with query)	The 'retrieve new multimedia message ?' question is displayed on notification receipt, thus allowing you to choose whether or not to retrieve the message.
Off	This is the default mode. A notification is received by the phone (it is automatically stored in the inbox) and an information message or icon is displayed on the standby screen. You can then choose whether or not you wish to retrieve the message content from the server (select Options/Retrieve message).

To select the retrieval mode:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **Multimedia messages**.
- 3 Select **Settings**.
- 4 Select **Auto-retrieval**.
- 5 Choose the required retrieval mode and press **OK**.



1. The availability of this menu is operator dependent.
2. Even if the Auto-retrieval mode is On, the message are not automatically retrieved if your phone is on roaming mode or if it cannot attach the network.
3. A message can be retrieved automatically (Auto retrieval is On) if the phone is on standby state only.

■ Sending messages from the outbox

The Outbox folder contains the stored and sent messages (delivered or undelivered). These messages can be selected from the Outbox menu and can be resent as new MMS messages. To select one of these messages:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **Multimedia messages**.
- 3 Select **Outbox** and use [up] or [down] arrow key to scroll to the required message.
- 4 Press **Options** to get to **View, Delete, Delete all, Send, Forward, Numbers & addresses** (to store or call the number(s) and/or e-mail address contained in the MMS header) or **Details**.



1. You cannot modify the contents of a Multimedia message stored in the Outbox.
2. An 'Attachment' option is available while viewing the selected message. You can then store the message attached files

■ Editing multimedia messages from the drafts folder

The Drafts folder contains the stored unsent messages. These messages can be selected from the Drafts folder and can be modified and sent.

To select one of these messages:

- 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **Multimedia messages**.
- 3 Select **Drafts** and use the up or down arrow key to scroll to the required message.
- 4 Press **Options** to **Delete, Delete all, Send, Modify, Edit a copy, Preview message, or Numbers & addresses** (to store or call the number(s) and/or e-mail address contained in the MMS header).



1. Once you have sent one of the Drafts messages it is automatically erased from the Drafts folder.
2. You can use any of the Drafts messages as a template via the 'Edit a copy' option. The selected message is not deleted when its copy is sent.

■ Storage consumption

Please see "Storage consumption", page 32.

Delete	To delete the current e-mail.
Delete all	To delete all the e-mails stored in the Inbox.
Forward	To transfer the current e-mail to another or several addressee(s).
Numbers & addresses	To view (and eventually store) all the e-mail addresses contained in the current e-mail.
Attachments	To view or play (and eventually store) the e-mail attached files.
Details	To view the e-mail details (size, date, etc.).

4 Select **OK** or **Options/View** to read the message.



1. You can also retrieve your e-mails from the network by directly selecting Retrieve (left softkey) from the e-mail sub-menu.
2. You cannot modify the contents of a received e-mail.
3. e-mails bearing an attachment file are shown by the symbol. The symbol is displayed when the file and its attachments were read.

Unread messages are shown by and the text is bold. Messages that have already been read are shown by .

■ Composing an e-mail

To write an e-mail please follow these steps:



1 Press the [Menu/T9] key. Select **Messages**.

2 Select **e-mail**.

3 Select **Write new**.

4 Highlight the **To** field. Press **OK** and select one of the available names from the displayed list or select **New**, then type the required e-mail address. Press **Valid**.

5 Highlight the **Subject** field. Press **OK** and type in the e-mail header text (40 characters maximum). Press **OK**.

6 Highlight the **Text** field. Press **OK** and type in the e-mail text (maximum 1530 characters). Press **OK**.

7 Highlight the **Attached files** field if you want to add a melody, a music, an image, a video, a phone card, a diary event or a speech note to your message. Press **OK** then select Picture, Melody, Speech note, phoncard or Other and choose one of the available files. Press **Valid**.

7 If the **Attached files** field already contains a file: press **OK** to enter the attached file list. Then press **OK** and select **New selection** to attach a new Picture, Melody, Speech note, phoncard or Other and choose one of the available files. Press **Valid**.

8 Highlight the **Cc** field. Press **OK** and select one of the available names from the displayed list or select **New**, then type the required e-mail address. Press **Valid**.



1. In the attached field an option menu (available through the OK key) allows to make a New selection, Delete, Delete all, Details and get an estimated size.
2. You can check the size of the Attachments by selecting OK then Estimated size while in the Attached files screen.

While writing your e-mail, you can at any time get to the Options menu:

OPTION	DESCRIPTION
Send	To send the e-mail.
Send & store	To send then store the e-mail.
Store	To store the e-mail as a draft.

■ Settings

Preparing the phone to send e-mails

You need to enter the connection parameters before you are able to send or receive e-mails on your phone. Please contact your e-mail service provider for setup detail.

The Profiles list can contain up to 3 e-mail profiles. A profile is a list of parameters that allow e-mail connections via a specific gateway.

To enter and store the profile details

You can only register profile details if you have previously registered profiles in the Connection manager menu (see "Connection manager", page 101):

- ▶ 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **e-mail**.
- 3 Select **Settings**.
- 4 Select **Profiles**.
- 5 Choose an empty profile (**[...]**) and press **OK**.
- 6 Enter the profile name and press **OK**.
- 7 Select **Connection profiles**. Enter the requested information (the GSM connection and GPRS connection fields are linked to the Connection manager and thus allow to pick one from the displayed list - see page 101). Select **Save** to store the data.
- 8 Select **Server settings**. Enter the requested information (POP3 server, POP3 port number, SMTP server, SMTP port number, and Let e-mail on server). Select **Save** to store the data.
- 9 Select **Account information**. Enter your e-mail address, mailer login and mailer password. Select **Save** to store the data.



1. All the requested parameters are obtainable from your e-mail service provider.
2. The phone number or access point name, the login and the password have to be stored in the Connection Manager (see Table , page 101).
3. A profile name cannot be stored twice. If an error message is displayed please also check the profile names in the Connection profiles (see Table , page 101).
4. Access to the content of the e-mail profile may depend on the pre-programmation of the settings. The connection settings menu may not be available in some cases. These settings may be 'Locked' (operator dependent) and not be user programmable.

Maximum size

This feature allows to choose the maximum size for the e-mails and attached files received in the inbox. The maximum size can be modified (from 1kB to 1024kB).

To set a maximum size value:

- ▶ 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **e-mail**.
- 3 Select **Settings**.
- 4 Select **Maximum size**.
- 5 Type in the maximum e-mail size you wish to retrieve from the server.



- The e-mail size is checked before it is downloaded on your phone. If it exceeds the maximum size stored in the 'Maximum size' field the e-mail is not downloaded on your phone.

■ Sending an e-mail from the outbox

The Outbox folder contains the stored and sent e-mails (delivered or undelivered). These e-mails can be selected from the Outbox menu and can be resent as new e-mails.

To select one of these e-mails:

- ▶ 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **e-mail**.
- 3 Select **Outbox** and use the up or down arrow key to scroll to the required message.
- 4 Press **Options** to **View**, **Delete**, **Delete all**, **Send**, **Edit**, **Numbers & addresses** (to store the e-mail address contained in the e-mail header) or **Details**.



- You cannot modify the contents of an e-mail stored in the Outbox.

■ Editing e-mails from the drafts folder

The Drafts folder contains the stored unsent e-mails. These e-mails can be selected from the Drafts folder and can be modified and sent.

To select one of these e-mails:

- ▶ 1 Press the [Menu/T9] key. Select **Messages**.
- 2 Select **e-mail**.
- 3 Select **Drafts** and use up or down arrow key to scroll to the required message.
- 4 Press **Options** to **View**, **Delete**, **Delete all**, **Send**, **Edit**, **Edit a copy**, **Numbers & addresses** (to store the e-mail address contained in the e-mail header) and **Details**.

⚠ Once you have sent one of the Draft messages this message is automatically erased from the Drafts folder.

■ Storage consumption

Please see "Storage consumption", page 32.

CALLS & TIMES



Access the **Calls & Times** menu to check the details of individual incoming and outgoing calls, the duration of the last call, the total call time for all outgoing and incoming calls or to play the recorded calls.

Call logs

This feature stores details (caller identity, calling time/date and call duration) about the last 20 numbers dialled, calls unanswered and calls received. The calls log can be activated for Line 1 and Line 2 (Line 1 is your main line. Line 2 availability is subscription dependent).



- 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Call logs**.
- 3 Use the [Up] or [Down] arrow keys to scroll through the calls list.

The last number dialled ☎, received ☎ or unanswered ☎ is displayed at the top of the list. The caller's name is displayed if it is registered in one of the Phone books (if not the phone number is displayed). If your subscription or the caller subscription does not have Caller Line Identification (CLI) 'Unknown number' is displayed. If the caller has withheld his number, 'Withheld number' is displayed.

Press the [Call] key to call the selected number.

Press **Options** to access the following menu:

ITEM	ACTION
Call	To call the selected number.
Store	To store the number in the Phone book.
Delete	To delete the entry.
Delete all	To delete all entries.
Edit	To edit the displayed number.
Send a message...	To send an MMS or SMS message to the selected phone number.

Use the [Up] or [Down] arrow keys to select the required option and follow the instructions displayed.

1. Press the [Call] key from the standby display to access the Call logs list.
2. The Call logs list is automatically emptied after a SIM change on the phone.

Call timers

The voice, Modem and GPRS call information for Line 1 and Line 2 is stored in the **Call timers** menu.

- 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Call timers**.
- 3 Select **Show**.
- 4 Use the [Up] or [Down] arrow keys to view all the timer information.

If the Call timers were reset (see "Call timers - reset", page 44) the date of the latest counter reset is displayed.



The call type and the accumulated times of outgoing and incoming calls are displayed.

Selecting **Details** displays information on calls made on your home network, on National roaming and on International roaming.

1. For GPRS timers, selecting Details displays information according to the Connection manager profiles.
2. If Line 2 is active too, 'All Calls' for Line 1 and Line 2 are displayed separately.

Balance information (subscription dependent)

This service may be supplied by your service provider. It allows you to view the remaining air-time balance on your phone line.

Please contact your service provider for more information. If your subscription allows access to this information:

- ▶ 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Call timers**.
- 3 Select **Balance information**.
- 4 Select **Call** or **Set number**.

When selecting **Call**, if the balance information number is already stored, a call is sent to the balance information centre. If no number is stored, select **Set number** and enter it. Press **OK** to store the number, then select **Call** to call the information centre number.

Reminder - call duration

You can set a duration reminder to beep regularly to remind you of the time spent on your call. The frequency can be any multiple of 1 minute (up to 59 minutes) and a beep is emitted 10 seconds before you reach the set limit..

- ▶ 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Call timers**.
- 3 Select **Reminder**.
- 4 Select **On** to activate the Reminder.
- 5 Enter the reminder interval.
- 6 Press **OK** to validate the entry.

Call timers - reset

This feature allows you to reset the call timers. The 4 digit lock code is required to reset the call timers (default lock code: '0000').

- ▶ 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Call timers**.
- 3 Select **Reset**.
- 4 Select **Yes**.
- 5 Enter the phone lock code and press **OK**.

■ Call costs - management

Some service providers offer an Advice of Charge (AoC) subscription service allowing you to view the latest call cost, the total calls cost and the remaining balance on your account (once a 'credit limit' has been set).

To display these, you must first set a currency value and enter an average cost per unit (only calls units are displayed if the cost information is not stored).

To set a currency value per Unit:

- ▶ 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Call costs**.
- 3 Select **Display cost type**.
- 4 Select **Currency**. The current currency unit value is displayed.
- 5 Select **Modify**. Enter your PIN 2 code and press **OK**.
- 6 Enter the currency name (up to 3 letters). Press **OK** to validate.
- 7 Enter the unit cost (e.g.: 0.15 Euro per minute). Press **OK** to validate.

To set the call cost type to Units:

- ▶ 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Call costs**.
- 3 Select **Display cost type**.
- 4 Select **Units**.

 When the cost type is set to Units, the credit limit and the remaining credit are shown in units.

Setting the credit limit (subscription dependent)

You may also be able to set a credit limit to your calls. Once the credit limit has been reached, no more chargeable outgoing or incoming calls are allowed. You can however still make emergency calls. The PIN2 code is required to set the credit limit.

- ▶ 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Call costs**.
- 3 Select **Credit limit**. The display indicates the current credit limit set.
- 4 Select **Edit**. Enter your PIN 2 code and press **OK**.
- 5 Enter the credit limit (use **.** to enter a decimal point for currencies). Press **OK** to validate.

⚠ When a credit limit has been set, the selection from the 'Credit limit' display is Edit or Set no limit.

Show costs

- ▶ 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Call costs**.
- 3 Select **Show**.
- 4 Use [Up] and [Down] arrow keys to display the **Last Call** and **All Calls** and show the **Remaining credits**.

⚠ The remaining credit is shown in either units or currency, as set by Cost Type menu above.

Call costs - resetting all costs to zero

To reset all call costs to zero:

- ▶ 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Call costs**.
- 3 Select **Reset**.
- 4 Select **Yes**.
- 5 Enter the PIN 2 number and press **OK**.

Recorded call

This sub-menu allows you to play the recorded phone calls. If several phone conversations have been recorded, they are played one after another.

- ▶ 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Recorded call**.

In compliance with European regulations, you are obliged to inform your correspondent before recording a phone conversation.

Line selection

Some operators support the use of a second line. You may then have two mobile phone numbers (e.g. a business line plus a personal line). To use them you need to select the line to be used.

- ▶ 1 Press the [Menu/T9] key. Select **Calls & Times**.
- 2 Select **Line selection**.
The current line selection is displayed.
- 3 Use the [Up] and [Down] arrow keys to scroll to the required line. Press **OK** to validate.

⚠ 1. The Line selection sub-menu may not be available on your phone. Please contact your service provider for further details about this service.
2. Line 1 and Line 2 can be named (Office and Home for instance). Refer to My number menu (see "My number(s) display", page 52). Whichever line is selected to send calls, incoming calls can still be received on either line.

PHONE BOOK



Phone numbers can be stored in the phone memory and in the SIM card memory.

- The phone memory can store up to 500 'extended' cards (called 'Phone book cards'). These cards allow you to store different information types: family name, first name, home number, phone number, work number, fax number, two mail addresses, postal address, business information, voice tag, group name, card related melody and an associated icon, picture or video.

- The SIM card memory capacity may vary according to your operator or service provider. The SIM memory allows you to store one name, one phone number and one voice tag per card.

Both the SIM and the phone memories are searched when reading the Phone book contents, unless you have previously selected a folder to be scanned when accessing the Phone book (please see "Sorting the Phone book entries so that they can be viewed as separate folders", page 48).

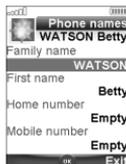
 Press the [Phone book] key or the left arrow to directly access the Phone book from the standby display.

Storing names and telephone numbers

Names and numbers can be stored directly in the Phone book or copied from different sources such as SMS messages, last dialled number list, etc.

There are several ways to store numbers in the Phone books:

Phone names card



From the standby display:

- 1 Enter the number. Select **Store**.
- 2 Select **New phone name**.
- 3 The **Home number, Mobile number, work number, or FAX number** list is displayed, thereby allowing you to select a number type.
- 4 Enter the card requested data and select **Save** to store the information.

Via the menu:

- 1 Press the [Menu/T9] key. Select **Phone book..**
- 2 Select **Add name**.
- 3 Select **Phone name**.
- 4 Enter the card requested data and select **Save** to store the information.

 The Groups field allows you to identify the caller's type according to entries you have previously set (see "Creating a group of cards", page 49).

SIM names card

From the standby display:

- 1 Enter the number. Select **Store**.
- 2 Select **New SIM name**.
- 3 Fill in the available fields and select **OK** to validate your entries.
- 4 Select **Save** to store the card.

Via the menu:

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Add name**.
- 3 Select **New SIM names**.
- 4 Enter the name and select **OK**.
- 5 Enter the number and select **OK**.
- 6 Select **Save** to store the card.

Storing a received number

Numbers stored in the last dialled, received, unanswered call information and SMS message locations can also be stored in the Phone book:

- 1 With a last dialled call, received call, unanswered call or SMS message select **Options**.
 - 2 For an SMS message, select **Numbers** if the number is contained in an SMS. The message number(s) is/are displayed. Select one if several numbers are available.
 - 2' For received and unanswered calls, select **Store**.
 - 3 Follow the above mentioned procedure to create a phone name or a SIM name card then select **Save** to store the card.
- A** 1. While entering a number, pressing the [Clear] key once deletes the last character. Holding the [Clear] key deletes the whole number.
2. You can use _ (wild card spaces) to store numbers (wild card spaces cannot be obtained when registering a number from the standby display).
When calling a number containing wild card spaces, select the number from the Phone book, select Options or press on the [Call/Send] key and enter the number corresponding to the wild card spaces (=missing figures).
3. The *, +, p (pause) and _ characters- which are accessible by pressing and holding the **(*)** key when registering a number - can be stored as part of numbers.
4. If the SIM card or phone memory are full, a warning message is displayed on the Phone book selection.

Copying names and numbers

When consulting your Phone book you can copy any SIM or phone card to another directory.

- 1 Press on the left arrow key or press the Phone book key or press the [Menu/T9] key then select **Phone book**.
- 2 Select **Read**. Scroll to one of the items from the displayed list. Select **Options**.
- 3 Select **Copy**, then select one of the available destination directories (**Phone names, SIM names, SIM fixed, My card**). The card content is then automatically copied to the required location.

Copying all names and numbers

When consulting your Phone book for the first time the 'Copy all SIM names to phone?' message is displayed. Select Yes.

You can also, at any time, copy all the names cards from the Phone to the SIM card or vice versa.

- 1 Press the [Menu/T9] key. Select **Phone book**.
 - 2 Select **Read**.
 - 3 Select **Options**.
 - 4 Select **Copy all**.
 - 5 Select **Phone to SIM or SIM to phone**.
- All the names are copied unless the SIM card memory does not bear enough free space when copying the Phone entries to the SIM card. A warning message is then displayed.
- A** 1. If your Phone book cards bear more than one number (home, mobile, work, fax numbers), the first available number from the list is copied to the corresponding SIM card entry.
2. If the Phone book entries are sorted (please see "Sorting the Phone book entries so that they can be viewed as separate folders", page 50), the Copy all option allows to copy the SIM names in the phone memory or to copy the Phone names in the SIM memory.

Moving names and numbers

When consulting your Phone book you can move any SIM or phone card to another directory.

- 1 Press on the [Left] arrow key or press the [Phone book] key or press the [Menu/T9] key then select **Phone book**.
- 2 Select **Read**. Scroll to one of the items from the displayed list. Select **Options**.
- 3 Select **Move**, then select one of the available destination directories (**Phone names, SIM names, SIM fixed, My card**). The card content is then automatically moved to the required location.

■ Adding a picture or an icon to your Phone book card

You can add a picture to each of your Phone book cards. This picture can be an icon, an image or a picture you captured

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Add name**.
- 3 Scroll down and select **Picture**. Press **OK** to display the Picture folder content.
- 4 Select the required icon or select  to display the pictures list, then select the required picture.



The  icon leads to the Pictures list. You can therefore select one of the registered images (please see "Pictures", page 69) and link it with your phone card

The icons list allows you to store your card with a symbol or an image that is then displayed together with the caller's name on incoming or outgoing calls.

- 5 Select **Save** to store your settings.



1. You can link about 100 images with your Phone book cards. If the images folder is full (images too big), an error message will be displayed.
2. The images remain attached to the Phone book cards even if you have deleted them from the Pictures folder memory. You can modify or delete them one after the other via the Phone book cards (see "Editing a Phone book or a SIM name card", page 47).
3. When sending a Phone book card via the infrared port, the image is automatically sent unless the file is protected.
4. The Image failure icon is displayed on incoming or outgoing calls if a problem related to the image has been detected by the phone.

■ Setting a melody, a music or a speech note as a ringtone

You can set a melody, a music or a speech notes as a ringtone for each of your Phone book cards. If you set a video as a ringtone the audio track of the video sequence only is played. This ringtone is played on or receipt of an incoming call.

- ▶ 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Add name**.
- 2 Select **New phone name**.
- 3 Scroll Down and select **Ringtone**. Press **OK**.
- 4 Select **Melodies** (to set a melody as a ringtone), **Speech notes** (to set a speech note as a ringtone) or **No sound** (to deactivate the ringtone). Press **OK** to confirm your selection.
- 5 Select the required melody or the required speech note. Press **OK** to confirm your selection.
- 6 Select **Save** to store your settings.

⚠ If no melody is set as a ringtone for your Phone book card, the default ringtone or the melody you set as a ringtone (please see "Ringtone selection", page 94) is played on receipt of an incoming call.

■ Editing a Phone book or a SIM name card

From the standby display:

- ▶ 1 Press the [left] arrow or the [Phone book] key to access the Phone book.
- 2 Scroll down to the card you want to access and select **OK**.
- 3 Scroll down to the field(s) you want to modify and amend it/them. Select **Save** to store the changes.

Via the menu:

- ▶ 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Read**.
- 3 Select one of the stored cards.
- 4 Select **Options**.
- 5 Select **View**.
- 6 Scroll down to the field(s) you want to modify and amend it/them. Select **Save** to store the changes.

You can create a voice dialling pattern on Phone book cards. This voice dialling pattern can only be recorded in edition mode.

⚠ A quick access to the SIM names is available from the idle screen by entering the position of the card entry in the SIM followed by **☎**.
Eg: if you want to call Betty (2d name in you SIM card) just press **2** and **☎** from the idle screen.

Recording a Voice dialling pattern:

- ▶ 1 Press the [Left] arrow key (from the standby display) or press the [Phone book] key to access the Phone book.
- 2 Scroll down to the card you want to access and select **OK** or select **Options** then select **View**.
- 3 Scroll down to the **Voice dialling** field and select **OK**. Select **New** to record the voice pattern or select **Options** then **Record** if a voice pattern is already recorded and you want to change it. Repeat the name until it is stored (minimum = twice). Pronounce it as clearly as possible and in a quiet environment. When the voice patterns match, **Stored** is displayed.

⚠ You may have to select the number - the voice dialling pattern has to be attached if several numbers are stored on the card. Select Home number, Mobile number or Work number if you have registered several numbers on a Phone book card.

■ Viewing and calling Phone book numbers

There are two ways of viewing and calling entries stored in the Phone book:

Directly from the standby display:

- ▶ 1 Press the [Left] arrow key or the [Phone book] key to display the Phone book list.
- 2 To access the required name, either scroll up or down or press a numeric key to access the different letters associated with the key (e.g. press 2 twice to reach the names starting with letter 'B') or type in the required name in the edition area displayed at the top of the screen (you can enter up to 20 characters).
- 3 Press the [Call] key or select **Options** then select **Call**.

⚠ When typing in the required name in the edition area, the Multitap mode is only available.

Via the menu:

- ▶ 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Read** to display the Phone book list, then scroll up and down to the required name or press a numeric key to access the different letters associated with the key. E.g. press 2 twice to access the names starting with letter 'B'.
- 3 Press the [Call] key or select **Options** then select **Call**.

The list of Phone book entries is displayed in alphabetical order.

- ⚠ 1. Selecting a group from the Folder selection displays the names/phone numbers of the corresponding group. This group is then displayed when next reading the Phone book contents.
2. Selecting Options displays the following menu choice: View, Call, Add name, Delete, Delete all (Phone names or SIM names), Copy, Copy all, Move, Group folder selection (to select All names, the Phone names only, the SIM names only or the groups members), Send by... e-mail, MMS, SMS or Infrared port, Send a message...(e_mail, MMS or SMS). Some of these options may not be available according to the selected folder.
3. If several phone numbers are stored on a Phone name card, scroll down to the required number and select it before activating the call.

Sorting the Phone book entries so that they can be viewed as separate folders

You can split the Phone book entries into folders and view either the Phone names, the SIM names or a selected group of entries when reaching the Phone book list.

- ▶ 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Read**.
- 3 Select **Options**
- 4 Select **Folder selection**, then choose **All names** (to display all the folders contents), **Phone names** (to display the phone cards only), **SIM names** (to display the SIM cards only) or one of the Groups names (see "Creating a group of cards", page 51) if any.

⚠ The selected folder remains active for further Phone book reading. Please go over the above procedure to select another folder or display the full Phone book list.

■ Voice dialling

You can make a call by using your voice.

To create a voice pattern:

- ▶ 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Voice dialling**.
- 3 Select **New entry**. All name entries are displayed.
- 4 Use the [Up] and [Down] arrow keys to select the card you want to use and press **OK**. If several phone numbers are registered on a card (e.g. **Home number**, **Mobile number** or **Work number**) select one by pressing **OK**.
- 5 You are then prompted to pronounce the name at least twice (pronounce it as clearly as possible). **Stored** is displayed when both voice patterns match.

⚠ If the voice patterns do not match, **Failed** is displayed. Repeat the whole voice registration procedure again.

To view the voice dialling numbers list:

- ▶ 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Voice dialling**.
- 3 Select **List**.
- 4 Use the [Up] and [Down] arrow keys to view the requested entry.

- 5 Press **Options** to play the voice pattern, select **Play Back**, to remove voice tag from the voice dialling list, select **Erase**, or to create a new voice pattern select **Record**.

To remove all phone numbers from the voice dialling list:

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Voice dialling**.
- 3 Select **Delete all**.

To call a phone number using a voice pattern:

- 1 From the standby display, press and hold the call key.
- 2 Pronounce the name as clearly as possible.
- 3 The name called as well as an animated icon  are then displayed and the call proceeds as normal.

■ Free space in the Phone book

To view the remaining capacity in the Phone book:

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Storage used** to get to the Phone names Storage used; press the [Down] arrow key to get to the SIM card Storage used.

 If available, the free memories in the FDN list are also displayed. Please see "Fixed dialling numbers", page 50 for more information on FDN numbers.

■ Creating a group of cards

Groups of cards can be defined for the Phone book. This feature allows you to group certain cards and to play a specific melody on receiving an incoming call from one of the group members.

To create a group:

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Groups**.
- 3 Select any blank template [...] and select **OK**. The following items are displayed:

ITEM	FUNCTION
Group name	To enter and store a group name.
Ringtone	To select a melody to be used as a ringtone on group member calls.

- 4 Enter or select the requested data. Press **OK** to validate.
- 5 Press **Save** to store the defined group.

Groups' characteristics can be modified or deleted (when in the Groups menu, select OK to amend the settings or select Delete to erase the group).

To modify a group:

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Groups**.
- 3 Select the group to be modified and select **OK**, then select the group name and/or the ringtone. Select the new parameters (name/melody).
- 4 Select **Save** to store your settings.

To select a group when storing a number:

- 1 Repeat the Phone names storage procedure (see "Storing names and telephone numbers", page 46) and fill in the Phone names card.
- 2 Scroll down to **Groups** and select **OK**.
- 3 Select one of the displayed groups from the list.
- 4 Select **Save** to store your settings.

 Groups can only be set for the Phone names cards (not for the SIM names cards).

To view group members:

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Groups**.
- 3 Select the required group name and select **Options**.

- 4 Select **Members**. The group members list is displayed. Please use the same procedure as when in the phone book to reach the required name.

■ My card

My card is a specific storage location where you can enter personal data. You can easily access My card and send its contents to another device via the infrared port or SMS.

My card contents is identical to the phone cards contents except for the Groups and Voice dialling fields.

To enter My card data set:

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **My card**.
- 3 Select **View** and enter the requested information as for a Phone book card (validate each entry by selecting **OK**).
- 4 Select **Save** to store your card.

To send My card via the Infrared port or by SMS or e-mail:

- 1 Press the [Menu/T9] key. Select **Phonebook**.
- 2 Select **My card**.
- 3 Select **Send by...** then select **Infrared port**: the infrared port automatically opens and sends the card. Or select **SMS**, then enter the mobile number to send the card to or select it via **Options** then **Names** list and press **OK**. Or select **e-mail** and enter the e-mail address in the To field.

■ My number(s) display

The phone can display your main line (Line 1) mobile number, Line 2(Alternate Line Service) mobile number and your data/fax numbers (these are SIM card dependent). These numbers may be stored in the SIM card. You can also choose to enter them manually.

To view, name and edit your own number(s),

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **My numbers**. The mobile number for Line 1 is displayed if it is stored in the SIM card. If not, select **Edit** and enter your number and your name (select **OK** to save the entered information). You can access an **Options** list to help you store the required information.

ITEM	FUNCTION
Codes	To select one of the pre-stored international country codes from the list. The selected code is then inserted at the beginning of your number.
Copy all	To copy the full number in order to paste it in another edition screen.
Paste	To paste a copied number.
Clear all	To delete all the typed characters from the current edition window.

- 3 Scroll down to view or enter Line 2, your data and fax numbers.



1. Line 2, data and fax numbers can only be accessed if your SIM card has these subscriptions.
2. My numbers availability depends on your service provider.

■ Fixed dialling numbers

Fixed dialling is a feature that restricts outgoing calls to 'fixed' numbers or 'prefixes' contained in SIM cards that support this feature. When the Fixed Dialling Numbers (FDN) feature is activated, dialling numbers, diverting calls and sending SMS to numbers not registered in the FDN list is forbidden. The number of FDN entries to be stored depends on the SIM card capacity. Activating the FDN feature or registering numbers in the FDN list is PIN 2 protected (contact your service provider to get the PIN 2 number).

The following menu (Fixed dialling) and operations are only available on your phone if your SIM card allows fixed dialling.

To activate or deactivate FDN operation:

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Fixed dialling**. Select **Status**.
- 3 Select **On** or **Off**. Enter the PIN2 number.
- 4 Select **OK** to validate.

 The Fixed dialling sub-menu may not be available on your phone. Please contact your service provider for further details.

To view the numbers stored in the FDN list:

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Fixed Dialling**.
- 3 Select **View** to view the FDN list entries. Pressing **Options** allows you to view, call, add a name, delete, copy or move numbers to the phone or SIM card memory, but also to send these numbers by Infrared port or SMS, or send a message (an SMS, a Mail or an MMS).

To add a new number to the FDN list:

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Fixed dialling**.
- 3 Select **Add new**.
- 4 Enter your PIN2 code and press **OK**;
- 5 Fill in the displayed fields as in any SIM name card then select **Save** to store your settings.

 1. Wild card spaces can be used with the numbers stored in the FDN list. E.g. number +441707 278_ _9 allows calls to all numbers from 278009 to 278999 to be dialled. The number can be edited and dialled from the standby display.
2. You may be asked to enter your PIN2 code.

■ Export

The purpose of the Export feature is to allow you to send the Phone book contents to another device (e.g. a pc) via the infrared port or by SMS.

- 1 Press the [Menu/T9] key. Select **Phone book**.
- 2 Select **Export...**, then select **Yes**. The entire contents of the Phone book are exported and grouped together in a Vcard file and stored in **Fun & Media box/Others**.

 When exporting a Vcard file you can directly send it via the infrared port or by SMS.

CAMERA



The camera application allows you to take pictures from your mobile internal or external screens.

These pictures can then be used to:

- personalise your standby display on your Main screen and your External screen, your Welcome or your Goodbye screen (please see "Setting a still or animated image as a standby display (for the Main screen or the External screen), as a Welcome screen or as a Goodbye screen from the Pictures folder", page 71),
- be sent to other devices (mobile phones, PC) by Mail (), MMS or via the miniSD™ Card or via the infrared port (see "Infrared port", page 19),
- personalise your phone cards (see "Phone names card", page 44).

You can choose from 6 picture size types: 2M pixels (1224x1632 pixels), Large (960x1280 pixels), normal (480x640 pixels), Wall paper (240x320 pixels), Portrait (240x240 pixels), or Messaging (120x160 pixels).

The use of the camera and the sending, forwarding and reproduction of the pictures taken are subject to property and privacy rights. Do not take a picture unless authorised.

The camera feature can be accessed in two ways: with closed clamshell or with open clamshell.

■ The Camera screen and the related icons

The table shows the information related to the camera application and its state while it is in use. The screen shot below is a preview example; the Camera related icons described in the table below are the ones which can be displayed while using the Camera features. The features described in this table are further explained in the chapter.

Camera related icons

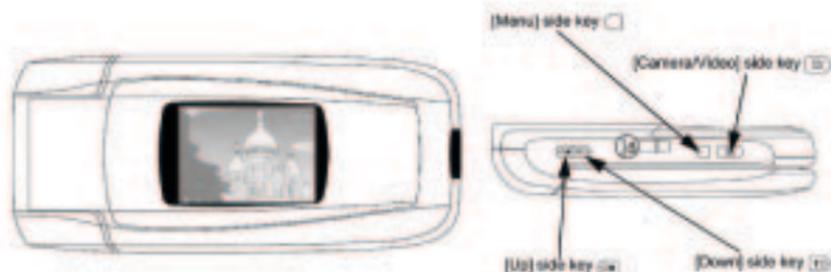
	Upper part:
	Camera application activated.
	Picture resolution (size): Messaging (120x160 pixels), Portrait (240x240 pixels), Wall paper (240x320 pixels), Normal (480x640 pixels), Large (960x1280 pixels) and 2M pixels (1224x1632 pixels).
	Compact light activated.
	Self timer activated.
	Image quality modes: Super fine, Fine, Economic.
	Modes: Night, Sport, Scenery, Sensitive, Backlight, Monochrome, Sepia and Negative.
	Brightness activated.
	Contrast activated.
	White balance: Indoor fluo, Indoor lamp, Outdoor
	Sharpness: Sharp, Soft
	Zoom (= zoom levels)
Lower part:	
	Image quality modes: Super fine, Fine, Economic.
	Modes: Full auto (standard mode), Night, Sport, Scenery, Sensitive, Backlight, Monochrome, Sepia and Negative.
	Brightness gauge (= to set the brightness level)
	Contrast gauge (= to set the contrast level)
	White balance: Normal, Indoor fluo, Indoor lamp, Outdoor
	Sharpness: Normal, Sharp, Soft
	Zoom (= zoom levels)

■ Closed clamshell: scenery shots

This is the standard way for taking pictures.

How to use the camera-related features on your mobile

For picture-taking with closed clamshell, here are the keys to be used:

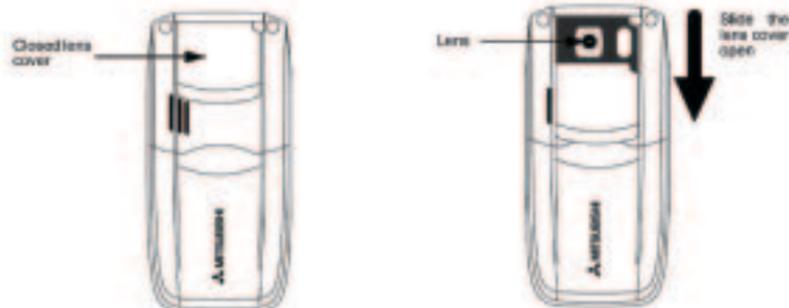


1. Please check that the position of the subject on the screen is correct.
2. From the idle screen, you can directly activate the Camera application by sliding the lens cover.

Each of the camera-related keys has several functions. While using the camera feature, please use the dedicated side keys as follows:

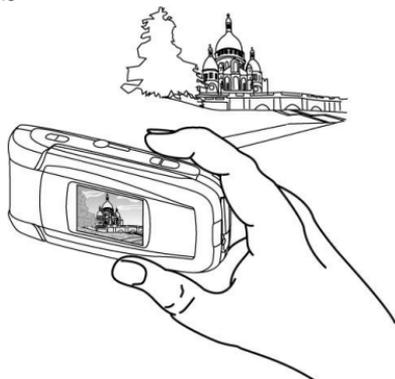
KEYS	DESCRIPTION
[Camera/Video] side key	To take a picture.
[Menu] side key	To access an Options list from the Preview screen. To exit a panel without confirming.
[Up] side key	To zoom out.
[Down] side key	To zoom in.

At the back of the mobile, a cover protects the lens of the camera. Do not forget to open it before taking a picture. A warning message will be displayed if you try to launch the camera application while the cover is closed.



How to hold your mobile

Subject behind the phone



To take a picture

- 1 Open the lens cover (see the drawings above).
or
 - 1' Press the [Camera/Video]  side key, then open the lens cover.
 - 2 Choose a subject.
 - 3 Press the [Camera/Video]  side key to take your picture.
The shutter sound is played and the red light blinks.
- ⚠** 1. You cannot take a picture while a voice communication is in progress.
2. The Shutter sound is a 'Camera-like' sound that is heard when a picture is captured.
3. You may not be able to deactivate nor mute the shutter sound option on your phone.
4. Do not forget to close the lens cover after taking a photo otherwise it covers the loud speaker.

Storing/erasing your picture

After a picture has been taken (see "To take a picture" on page 54), a phone assigned file name and a message "Keep this photo?" will be displayed.

- 1 Select **Clear** to erase it or press **OK** to store the picture.

The picture is stored in the Pictures folder of the Fun & Media box menu (see "Pictures", page 69) except if you have previously chosen to have it stored on the miniSD™ Card (please see "miniSD™ Card", page 84). The picture file is stored as a .jpg file.

Adjusting the preview

You can adjust several setting types before taking a picture. These settings can be accessed from an items menu on the preview screen by pressing the [Menu]  side key.

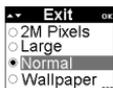
To switch to the video application

This item allows you to switch from the camera application to the video application to record a video.



- 1 Press the [Menu]  side key. Select **Video recorder**.
- 2 Press the [Camera/Video]  side key to confirm your selection.

To select the image size



- 1 Press the [Menu]  side key. Select **Resolution**.
- 2 Select the **2M pixels**, the **Large**, the **Normal**, the **Wall paper**, the **Portrait** or the **Messaging** mode.
- 3 Press the [Camera/Video]  side key to confirm your selection.

- ⚠** 1. The Wall paper allows you to set your picture as a standby display for your Main or External screen or as a Welcome or a Goodbye screen.
2. If you wish to send your image by Mail or MMS, we advise you choose the Messaging mode.

To select the image quality

This setting allows you to choose a quality level for your picture. The better the quality (sharpness of the displayed image), the bigger the file size. If you wish to send your image by Mail or by MMS, we advise you choose the Economic mode.



- 1 Press the [Menu]  side key. Select **Quality**.
- 2 Select the **Super fine**, the **Fine** or the **Economic** mode.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To select the brightness



- 1 Press the [Menu]  side key. Select **Brightness**.
- 2 Select one of the seven brightness levels.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To select the contrast level



- 1 Press the [Menu]  side key. Select **Contrast**.
- 2 Select one of the seven contrast levels.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To set the image sharpness



- 1 Press the [Menu]  side key. Select **Sharpness**.
- 2 Select **Normal**, **Soft** or **Sharp**.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To select the zoom setting



- 1 Press the [Up]  or [Down]  side key. Select **Zoom**.
- 2 Select one of the zoom levels by scrolling left () or right ()
- 3 Press the [Camera/Video]  side key to confirm your selection.



The available zoom levels depend on the selected picture resolution.

To access the mode setting

This setting allows you to choose the colour and exposure mode before taking the picture in order to optimise the picture quality.



- 1 Press the [Menu]  side key. Select **Mode**.
- 2 Select the **Full auto**, the **Night** (dark context), the **Sport** (moving subject), the **Scenery** (to capture a landscape picture), the **Sensitive** (automatic light setting), the **Backlight** (to avoid any backlighting), the **Monochrome** (to take a black & white picture), the **Sepia** (to have a retro effect) or the **Negative** (to have a colour reverse effect) mode.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To set the white balance



- 1 Press the [Menu]  side key. Select **White balance**.
- 2 Select **Auto**, **Outdoor**, **Indoor lamp** or **Indoor fluo**.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To select the storage memory space

Before taking a picture you have to choose where the image will be stored in. The default picture storage space will be in the "Phone memory".



- 1 Press the [Menu]  side key. Select **Storage**.
- 2 Select **Phone memory** or **Memory card**.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To access the compact light setting

This feature sets up a light which lights up your subject during the picture taking.



- 1 Press the [Menu] side key. Select **Compact light**.
- 2 Select **On** or **Off**.
- 3 Press the [Camera/Video] side key to confirm your selection.

To access the self timer

The self timer offers the possibility of taking a delayed picture, thereby enabling you to be in the picture.



- 1 Press the [Menu] side key. Select **Self timer**.
- 2 Select **On**.
- 3 Press the [Camera/Video] side key to launch the countdown. The 10 seconds countdown is displayed on the external screen. The capture is automatically performed when the countdown is over.



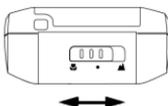
If an event occurs (Mail, MMS reception...) or the mobile's behaviour is modified (any key pressed, clamshell opened or closed...) after the countdown has started, the self timer is automatically stopped and set to Off. Once the event has been processed, the mobile returns to the preview screen.

To display/conceal information icons

This option allows you to activate or conceal the mobile information status icons display on top of the screen (see "Camera related icons", page 54)

- 1 Press the [Menu] side key. Select **Info**.
- 2 Select **On** (the icons are displayed) or **Off** (the icons are not displayed).
- 3 Press the [Camera/Video] side key to confirm your selection.

Macro switch setting



The macro switch allows you to set the focus of the camera in order to take a picture of very close items. You can for instance use this feature to clearly capture text. Move the macro switch cursor right or left according to the required effect.



You can adjust these settings via the open clamshell (please see "Adjusting your picture", page 60). When the clamshell is closed, the settings are kept.

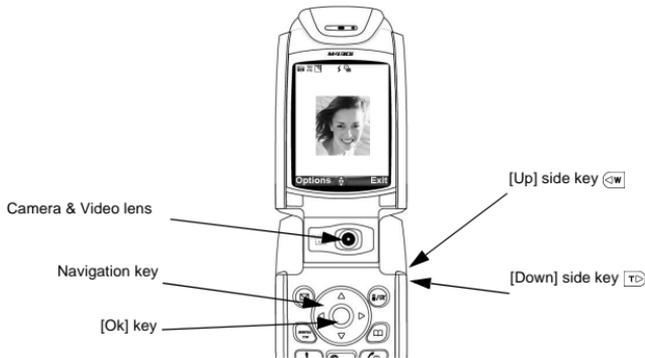
How to view your pictures

You can view the pictures stored on your mobile or on the miniSD™ Card (see "Pictures", page 71) on the external screen. However, to get an optimised display of the pictures, it is advisable to view them on the internal screen.

- 1 Open the clamshell.
- 2 From the standby display, press the [Menu/T9] key. Select **Fun & Media box**.
- 3 Select **Pictures**, then select the required picture.
- 4 Press **OK** to view the picture.

■ Open clamshell: self-portraits

The camera feature, with open clamshell, is to be used with the keypad only. This way of doing is to be used to take pictures of oneself and to view the stored pictures in an optimised way. For picture-taking with open clamshell, here are the keys to be used:



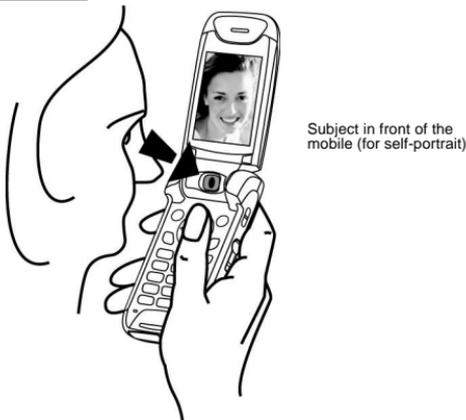
Available shortcuts

Each of the camera-related keys has several functions. While using the camera feature, please use the keypad as follows:

KEYS	DESCRIPTION
 [Up] side key	To access the Zoom panel.
 [Down] side key	To access the Zoom panel.
 [OK] key	To capture your image.
 [Up] navigation key	To access the Zoom panel and to scroll to the next one.
 [Down] navigation key	To access the Quality panel and to scroll to the next one.
 [Left] navigation key	To access the Brightness panel.
 [Right] navigation key	To access the Mode panel.

 The settings described above are to be accessed via the Preview mode only.

How to hold your mobile



To access the camera application

You can access the camera application via two routes:

- ▶ 1 From the standby display, press the [OK] key.

or:

- ▶ 1 From the standby display, press the [Menu/T9] key. Select **Camera/Video**.
- ▶ 2 Select **Capture a photo**.

⚠ The infrared port automatically closes when the camera application is accessed.

To take self-portraits

These pictures can be stored either on your mobile or on a miniSD™ Card (please see "miniSD™ Card", page 86)

To take self-portraits the mobile displays mirrored images on the main screen.

- ▶ 1 Place yourself in front of the mobile so that your image is displayed on the main screen.
- ▶ 2 Adjust the required settings (see "Adjusting your picture", page 58).
- ▶ 3 Press **OK** to capture your picture.

- ⚠ 1. When a picture is taken the shutter sound is played and the red light flashes.
- 2. You may not be able to deactivate nor mute the shutter sound option on your mobile.
- 3. The Shutter sound is a 'Camera-like' sound that is heard when a picture is captured.
- 4. You cannot take a picture while a communication is in progress.

Storing/erasing your picture

When a picture has just been taken (see "To take self-portraits", page 58), the file name and the "Keep this photo?" message is displayed.

- ▶ 1 Select **OK** to store the picture or select **Clear** to erase it.

The picture is stored in the Pictures folder of the Fun & Media box menu (see "Pictures", page 71) except if you have previously chosen to have it stored on the miniSD™ Card (please see below). The picture file is stored as a .jpeg file.

An Options list is available:

OPTIONS	DESCRIPTION
Camera	To get back to the camera preview screen.
Full screen	To view your image in full screen.
Set as...	To set your picture as a standby display for your Main screen, External screen, as a Welcome screen or as a Goodbye screen.
Send by...	To send the picture by e-mail, by MMS or via the infrared port.
Delete	To delete the current picture.
Rename	To rename the current picture.
Details	To display information about the file Name, the Title, the Author (the device name), the Resolution (width x height in pixels), the Size, the Storage date, the File protection status, the Copyright of the picture. The empty fields are not displayed.

Adjusting your picture

Before taking a picture you can access the following Options list in order to set your Preview details.

OPTIONS	DESCRIPTION
Video recorder	To switch from the Camera application to the Video application.
Settings	To access a settings list (see the table below).
Frames	To set or remove a frame over the preview area (to set a frame on your internal or external preview, please see "Adding a frame to your picture", page 81).
Compact light	To turn the Compact light On/Off.
Self timer	For automatic picture taking after a 10 seconds countdown. See "To access the self timer", page 58.

You can adjust the camera settings before taking your picture.

- 1 From the preview screen, select **Options**.
- 2 Select **Settings**:

ITEMS	DESCRIPTION
Resolution	To select the picture size. Select the 2M pixels, the Large, the Normal or the Wall paper, the Portrait or the Messaging mode.
Quality	To select the image quality. Select the Super fine, the Fine or the Economic mode.
Shutter sound	To select the shutter sound volume level.
Compact light	To select the intensity level of the compact white light. Select the High, the Medium or the Low mode.
Info	To display/conceal the information icons on top of the display.
Storage	To select either the phone memory or the memory card to store your picture.

- 3 Fill in the available entries and select **OK** to validate your entries.
- 4 Select **Save** to store the changes.

 You cannot deactivate or mute the shutter sound Option on your phone.

How to view your picture

You can view the pictures that have just been taken or stored on your phone or on the miniSD™ Card (see "Pictures", page 69) on the internal screen.

To view the pictures that are stored in the Fun & Media box picture folder:

- 1 Open the clamshell.
- 2 From the standby display, press the [Menu/T9] key. Select **Fun & Media box**.
- 3 Select **Pictures**, then select the required picture.
- 4 Press **OK**.

To access the camera application from another application

The Camera application can be activated from the Options menu whilst using other applications on the phone. In this case, the available resolution types vary according to the application. The camera-accessible applications are the following:

APPLICATIONS	AVAILABLE RESOLUTION
Phonebook	Portrait and Messaging.
Settings (standby screen for Main or External screen welcome or goodbye screen)	Portrait, Wall paper and Messaging.
Mail, MMS	All (If you wish to send an image by Mail or MMS, the image may be automatically resized).

To access the camera application from the Phonebook:

- 1 Press the [Menu/T9] side key. Select **Phonebook**.
- 2 Select **Add name**, then **New phone names**.
- 3 Scroll down and select **Picture**.
- 4 From the picture browser, select **Options**.
- 5 Select **Camera**.

To access the camera application from the Settings menu:

- 1 Press the [Menu/T9] side key. Select **Settings**.
- 2 Select **Display** then **Standby screen**.
- 3 Select **Main screen**, **External screen**, **Welcome screen** or **Goodbye screen**. Scroll down to **My Picture**.
- 4 From the picture browser, select **Options**.
- 5 Select **Camera**.

To access the camera application from the Message menu:

- ▶ 1 Press the [Menu/T9] side key. Select **Messages**.
- 2 Select **MMS**, Select **Write new**. Scroll down to the **Content** field, press **OK** and scroll to the **Pictures** field. Press **OK** and select **Picture**.
- 2' Or select **e-mail**, Select **Write new**. Scroll down to the **Attached files** field, press **OK** and select **Picture**.
- 3 From the pictures browser, select **Options**.
- 4 Select **Camera**.

⚠ If a call is in progress, access to the camera is not possible.

VIDEO



This application allows you to record and play videos up to 5 MB (about 10 minutes time) on your phone internal or external screens. These videos can bear sound. They can be recorded as several sequences (on a single file) via the Pause mode.

You can send those videos to other devices (mobile phones, PC) by Mail, MMS, or via the infrared port, you can even attach videos to your phone cards (see "Storing names and telephone numbers", page 46). Two video size types are available: Normal (QCIF format: 176x144 pixels) and Small (sub-QCIF: 128x96 pixels).

The videos can be stored on your phone or on a miniSD™ Card (see "To select the storage memory", page 67). The file extension type supported by the video application is .3gp.

The use of the video recorder and the sending, forwarding and reproducing of the videos are subject to property and privacy rights. Do not make videos unless authorized.

The video feature can be accessed when clamshell is either closed or open.

■ Video display

The table shows the information related to the Video application and its state while it is in use. The screen shot below is a preview example; the Video related icons described in the table below are the ones which can be displayed while using the Video features. The features described in this table are further explained in the chapter.

Video recorder icons



ICONS	EXPLANATION
Upper part:	
	Video application activated.
	Video resolution (size): Normal (QCIF format: 176x144) and Small (sub-QCIF format: 128x96).
	Video quality modes: Super fine, Fine, Economic.
	Brightness activated
	Zoom (= zoom levels)
	Compact light On
	Self timer On
	Microphone On
	Microphone Off
Lower part:	
	Image quality modes: Super fine, Fine, Economic.
	Brightness gauge (= to set the brightness level)
	Zoom (= zoom levels)
	Record symbol: press on the [OK] key or on the [Camera/Video] side key to launch the recording.
	Pause symbol: press on the [OK] key or on the [Camera/Video] side key to pause the recording.
	Stop symbol: press on the Right softkey or on the [Menu] side key to stop the recording.
	When in recording mode, the gauge fills in with red colour to indicate the recording progress.
	Duration of the current video sequence.
	Weight of the current video sequence.

Video player icons

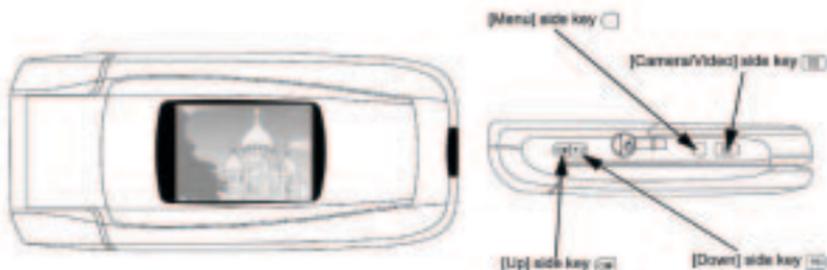
ICONS	EXPLANATION
	Play symbol: press on the [OK] key or on the [Camera/Video] side key to launch the playback.
	Pause symbol: press on the [OK] key or on the [Camera/Video] side key to pause the playback.
	Stop symbol: press on the Right softkey or on the [Menu] side key to stop the playback.
	Sound level from  (no sound) to  , on main screen.
	Sound level on external screen
	When in playback mode, the gauge fills with green to indicate the playback progress.
	Loop mode activated.
00:00	Duration of the current video sequence.
00:00	Total duration of the current video sequence.

■ Closed clamshell: scenery shots

This is the standard way for making videos. This way of using it allows you to enjoy easy access to all video recording features.

It is suggested to take video with closed clamshell. However to get an optimised display of the videos, it is advisable that watch them on the internal screen (please see "How to play your video" on page 66).

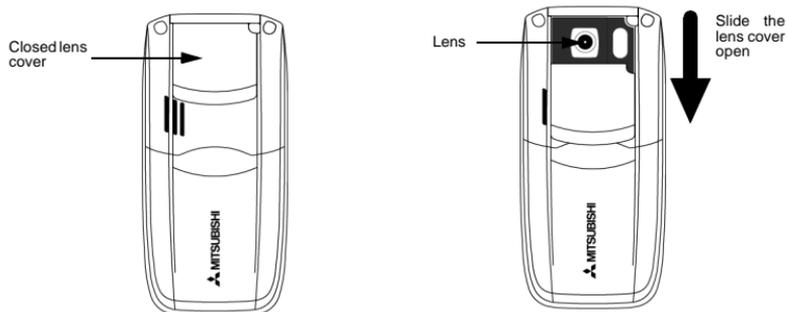
How to use the video-related features on your mobile



The following list describes the functions of each side keys. Some serve different functions in different active mode.

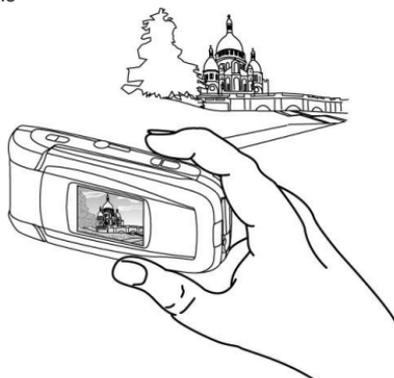
KEYS	DESCRIPTION
 [Camera/Video] side key	To record, play, and pause a video.
 [Menu] side key	To access an Options list in Preview mode. To stop the Recording and the Playback. To exit a panel without confirming.
 [Up] side key,	To zoom out before recording.
 [Down] side key	To zoom in before recording.

At the back of the phone, a cover protects the lens of the video recorder. Please remember to open it before filming. A message is displayed if you try to launch the video application and the lens cover is not open.



How to hold your phone to make videos

Subject behind the phone



To record a video

You can record videos up to 5MB. These videos can be stored either on your mobile or on a miniSD™ Card (see "To select the storage memory", page 65)

- ▶ 1 Open the lens cover (see the drawings above) then press and hold the [Menu]  side key or
- 1 Press and hold the [Camera/Video]  side key then open the lens cover. or
- 1 Open the lens cover, then press on the [Menu]  side key and select **Video recorder**.
- 2 Choose a subject.
- 3 Press the [Camera/Video]  side key to launch the Recording. The shutter sound is played and the red light is activated.
- 4 Press the [Menu]  side key to stop the Recording.



1. When the gauge reaches its limit, the Recording is automatically stopped.
2. Do not forget to close the lens cover after recording a video otherwise it covers the loud speaker.

Setting the video to Pause

This mode allows you to record several sequences on a single file. During the Recording you can pause your video in the following way:

- 1 During the recording, press the [Camera/Video]  key and the recorded sequence is paused.
- 2 Press the [Camera/Video]  key to restart the Recording.

 The red light is deactivated during the Pause mode.

Storing/erasing your video

When a video has been recorded (see "To record a video", page 63), the file name and the «Keep this video?» message are displayed.

- 1 press **OK** to store the video or select **Clear** to erase it.

The recorded video is stored in the Video folder of the Fun & Media box menu (please see "Videos", page 73) except if you have previously chosen to have it stored on the miniSD™ Card (please see "To select the storage memory", page 65). The video file is stored as a .3gp file.

Sending your video

You can also send your video by Mail, by MMS or via the infrared port.

- 1 Select **Options**, then select **Send by...**
- 2 Select **Mail**, **MMS** or **Infrared port**, then follow the displayed instructions.

Adjusting the preview

You can preview settings before making a video. These settings can be accessed from an items menu on the preview screen by pressing the [Menu]  side key.

To switch to the camera application

This item allows you to switch from the video application to the camera application to take a picture.



- 1 Press the [Menu]  side key. Select **Camera**.
- 2 Press the [Camera/Video]  side key to confirm your selection.

To select the image size



- 1 Press the [Menu]  side key. Select **Resolution**.
- 2 Select the **Normal** or the **Small** mode.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To select the image quality

This setting allows you to choose a quality level for your video. The better the quality, the bigger the file size. If you wish to send your video by Mail or by MMS, we advise you choose the Economic mode.



- 1 Press the [Menu]  side key. Select **Quality**.
- 2 Select the **Super fine**, the **Fine** or the **Economic** mode.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To select the brightness



- 1 Press the [Menu]  side key. Select **Brightness**.
- 2 Select one of the seven brightness levels.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To select the zoom setting



- 1 Press the [Up]  or [Down]  side key.
- 2 Select one of the zoom levels by scrolling left ( or right ().
- 3 Press the [Camera/Video]  side key to confirm your selection.

To access the microphone setting

This setting allows you to activate or mute the microphone during the recording.

- 1 Press the [Menu] side key. Select **Microphone**.
- 2 Select **On** or **Off**.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To access the video size limit setting

By setting the size limit of your video file (up to 5MB), the recording will stop automatically once it reaches this limit for Mail or MMS message.

- 1 Press the [Menu] side key. Select **Video size limit**.
- 2 Select **Short mail**, **Long mail** or **Maximum size**.
- 3 Press the [Camera/Video]  side key to confirm your selection.

 The Fit to mail value depends on your operator (min: 100 KB, max: 300 KB).

To select the storage memory

Before launching a video record, you have to choose where to store your video file. Phone Memory is the default setting.

- 1 Press the [Menu] side key. Select **Storage**.
- 2 Select **Phone memory** or **Memory card**.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To access the compact light setting

Use the compact light when you need to light up your subject during the video recording.

- 1 Press the [Menu] side key. Select **Compact light**.
- 2 Select **On** or **Off**.
- 3 Press the [Camera/Video]  side key to confirm your selection.

To access the self timer

The self timer offers the possibility of recording a delayed video, thereby enabling you to be in the video.

- 1 Press the [Menu] side key. Select **Self timer**.
- 2 Select **On**.
- 3 Press the [Camera/Video]  side key to launch the countdown.
The 10 seconds countdown is displayed on the external screen. The recording is automatically launched when the countdown is over. Please proceed as usual (to stop or pause the video).
- 4 Press on the [Menu] side key to stop the recording.

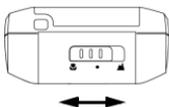
 If an event occurs (Mail, MMS reception...) or the phone's behaviour is modified (any key pressed, clamshell opened or closed...) after the countdown has started, the self timer is automatically stopped and set to Off. Once the event has been processed, the phone returns to the preview screen.

To display/conceal information icons

This option allows you to activate or conceal the phone information status icons display on top of the screen (see "Video recorder icons", page 61)

- 1 Press the [Menu] side key. Select **Info**.
- 2 Select **On** (the icons are displayed) or **Off** (the icons are not displayed).
- 3 Press the video  side key to confirm your selection or press the [Menu] side key to exit the information icon panel.

Macro switch setting

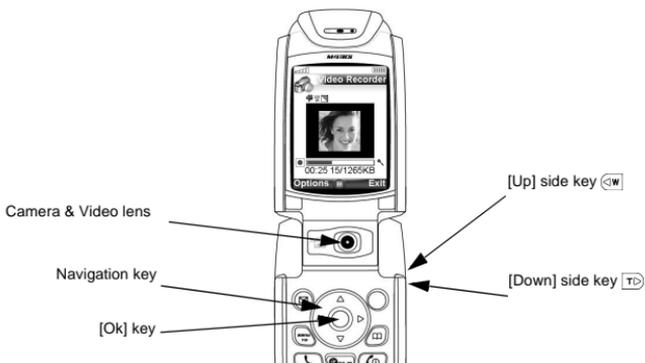


The macro switch allows you to set the focus of the video recorder in order to film very close items.

■ Open clamshell: self-filming

The video feature, with open clamshell, is to be used with the keypad only. This is used to:

- film yourself
- play the stored videos in an optimised resolution.



Available shortcuts:

Each of the video-related keys has several functions. While using the video feature, please use the keypad as follows:

KEYS	DESCRIPTION
◀W	[Up] side key To zoom out.
T▶	[Down] side key To zoom in.
⊙	[OK] key To launch the Recording in Preview or Pause mode. To launch the Pause mode in Recording.
▲	[Up] navigation key To access the Zoom panel and to scroll to the next one.
▼	[Down] navigation key To access the Quality panel and to scroll to the next one.
◀	[Left] navigation key To access the Brightness panel.

⚠ The settings described above are to be accessed via the Preview mode only.

How to hold your phone to make videos

Subject in front of the phone (for self-filming)



To access the video application

You can access the video recorder application in the following way:

- ▶ **1** From the standby display, press and hold the [OK] key.

or:

- ▶ **1** From the idle screen, press the [Menu/T9] key. Select **Camera/Video**.
- 2** Select **Film a video**.

A The infrared port automatically closes when the video application is accessed

To film yourself

You can record videos up to 5 MB. These videos can be stored either on your phone or on a miniSD™ Card (please see "To select the storage memory", page 68).

To film yourself the phone displays mirrored images on the main screen. During the recording, opening or closing the clamshell sets the recording to Pause.

- ▶ **1** Place yourself in front of the mobile so that your image is displayed on the main screen.
- 2** Adjust the required settings (see "Adjusting the preview", page 67).
- 3** Press **OK** to launch the recording.
- 4** Select **Stop** (right softkey) to stop the recording.

An Options list is then available:

OPTIONS	DESCRIPTION
Play	To play the recorded video (please see "How to play your video", page 70 for full details on the Options submenu).
Send by	To send the video by Mail, by MMS or via the infrared port.
Delete	To delete the current video.
Details	To display information about the file Name, the Title, the Author (the device name), the Resolution (width*height in pixels), the Duration of the video, the Size, the Storage date, the File protection status, the Description (if a text is attached to the video file), the Copyright of the recorded video, the Restriction status. The empty fields are not displayed.

- A** 1. When the record mode is launched the shutter sound is played and the red light is continuously On.
- 2. When the video reaches its maximum size (see "To access the video size limit setting", page 65), the Recording is automatically stopped.

Setting the video to Pause

This mode allows to record several sequences on a single file. During the recording you can pause your video in the following way:

- ▶ **1** During the recording, press **OK**. When setting the video to Pause, the red light is turned Off.
- 2** Press **OK** to restart the Recording.

Storing/erasing your video

After recording(see "To film yourself", page 67), the file name and the "Keep this video?" message are displayed.

- ▶ **1** Select **OK** to store the video or select **Clear** to erase it .

The video is automatically stored in the Video sub-folder of the Fun & Media box menu (see "Videos", page 73) except if you have previously chosen to have it stored on the miniSD™ Card (please see below). The video file is stored as a .3gp file.

Adjusting the preview

Before recording, you can access the following Options list in order to set your Preview details.

OPTION	DESCRIPTION
Camera	To switch from the Video application to the Camera application.
Settings	To access a settings list (see the table below).
Compact light	To turn the Compact light On/Off.
Self timer	For automatic launching of the video recording after a 10 second countdown.
Microphone	To activate/mute the microphone.

You can adjust your videos settings before recording.

- ▶ 1 From the preview screen, select **Options**.
- 2 Select **Settings**:

ITEMS	DESCRIPTION
Image resolution	To select the video frame size. Select Normal or Small mode.
Image quality	To select the image quality. Select Super fine, Fine or Economic.
Storage	To set the Phone memory or the miniSD™ Card as the storage memory space.
Shutter sound level	To select the shutter sound volume level.
Compact light intensity	To select the intensity level of the compact white light. Select High, Medium or Low.
Info	To display/conceal the pictographs (preview mode only).
Video size limit	To display the maximum allowed video size. Select Fit to mail or Maximum size.

3 Fill in the available entries and select **OK** to validate your entries.

4 Select **Save** to store the changes.



You cannot deactivate or mute the shutter sound Option on your phone.

To select the storage memory

Before launching a video recording you have to choose the storage space the video will be stored in. If you do not choose a storage space, the video is stored on the phone memory by default.

- ▶ 1 From the Preview, select **Options** then **Settings**
- 2 Select **Storage**.
- 3 Select **Phone memory** or **Memory card**.
- 4 Select **Save** to store your setting.

How to play your video

You can watch, on the main screen, a video that has just been recorded before storing it in the following way:

- ▶ 1 Select **Options**.
- 2 Select **Play**.

To have more information about the video player please see "To play a video", page 74.

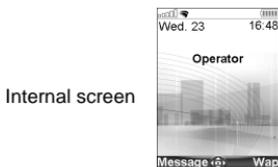
FUN & MEDIA BOX



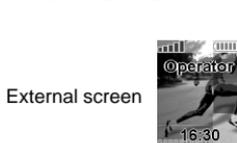
This menu helps you to organize and manage all the images, melodies, videos, speech notes, frames, Games and Java applications contained in the phone as well as all the files received via the WAP™ browser, the infrared port, Mail, MMS or SMS.

■ Pictures

The Pictures sub-menu allows you to view and set stored (via the Camera and the Infrared port) still and animated images (animated .gif) as a standby display for your Main screen (internal screen) or External (with still pictures only) screen, a Welcome or a Goodbye screen in order to configure and personalise your phone screens (see "Display", page 95). The picture formats supported by your phone are .wbmp, .gif, .jpg, .png, .swf, .ifm.



Internal screen



External screen



Welcome screen
Goodbye screen

You can download images via the WAP™ browser and mailer, via the Infrared port and by MMS. It is then possible to store them and/or set them as a Standby display for your internal and external screens, a Welcome screen or a Goodbye screen.

Your phone allows you to set one Standby display for your internal screen, one Standby display for your external screen (still pictures only), one Welcome screen or one Goodbye screen from the downloaded and/or stored images (to download and store images, see the following sections).

Pictures browser



The Pictures browser allows you to display the stored images as a list or as a mosaic. When the pictures are displayed as a list the screen is divided into two parts: the image names list and the selected image. When they are displayed as a mosaic (Thumbnails mode: see 'Options/My preferences' below) the screen contains a mosaic of pictures (4 or 9 pictures) and the name of the selected image.

Viewing an image

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Pictures**.
- 3 Scroll down the images list or mosaic. Select the required image or select a folder to view its contents (press **OK**).
- 4 Press **OK** or **Options** and **View** to view the selected image in full size.

Options

The Pictures folder **Options** list contains the following items:

OPTIONS	DESCRIPTION
View	To view the full image and name.
Set as...	To set the image as a Main screen, as an External screen, as a Welcome screen (on the internal screen only) on switching on your phone or as a Goodbye screen, (on the internal screen only) on switching it Off.
Send by...	To send the image via infrared port, by Mail or by MMS.
Delete	To delete the current image.
Delete all	To delete all the pictures of the current folder.
Multiple selection	To select several images (by pressing OK). Press OK to unselect a ticked image. Select Options to access Send by... (Infrared port), Delete, Move to (a folder of Pictures or the miniSD™ Card), Copy to (a folder of Pictures or the miniSD™ Card), Select all (to select all the files of the current folder), Unselect all (to unselect all the ticked files).
Move to	To move the current image to the Pictures folder, to one of the Pictures sub-folders or to the miniSD™ Card.
Copy to	To copy the current image to the Pictures folder, in one of the Pictures sub-folders or the miniSD™ Card.
New folder	To create a sub-folder in the Pictures folder (available only if the selection is not a folder already).
Rename	To rename the current picture.
Details	To show the name, resolution, size, storage date and protection status of the current file.
My preferences	To sort the stored images (by date, name, size) and select a view mode (List, Thumbnails 4 - to display a 4-picture mosaic - or Thumbnails - 9 to display a 9-picture mosaic) and to change the Picture browser mode.



1. If the selection is a sub-folder, an Options list is available: View, Delete, New folder and My preferences.
2. The sending of an image may not be allowed if it is exportation (copyright) protected (the 'File protected' message is then displayed).
3. To send an image via the infrared port please see "Infrared port" on page 19. To send an image via Mail (please see "Composing an e-mail", page 38) and via MMS (please see "Writing and sending a multimedia message", page 34).
4. If there is error messages, please see "Error messages" on page 109 for details.
5. You can only access the miniSD™ Card storage space if the miniSD™ Card is inserted in the phone.

When viewing an image, an **Options** menu is available (only for still and animated .gif pictures):

OPTIONS	DESCRIPTION
Full view	To view the picture in full screen.
Set as...	To set the image as a Main screen, as an External screen or as a Welcome screen on switching on your phone or as a Goodbye screen on switching it Off.
Send by...	To send the picture via the Infrared port (the infrared port is automatically open), by Mail or by MMS.
Delete	To delete the current picture.
Rotate...	To rotate the picture to the right (90°), to the left (90°) or turnover (180°). Once the picture is rotated, an Options menu is available to store the current picture, to view it in Full screen, to Cancel the rotation, to Add a frame to the current picture or to Rotate it once again.
Slide show	To display automatically all the pictures of a folder one after another.
Add frame...	To add a frame to the current picture.
Details	To show the name, resolution, size, storage date and protection status of the current file.

While viewing a picture in full screen, press the left soft key underneath  to access the three available zoom level (Maximum, Medium and Minimum).

Screen Settings

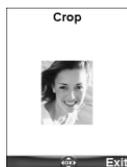
This option allows you to set a picture as a standby screen image on the internal and external screens or as a Welcome or a Goodbye screen.

SCREEN	AVAILABLE PICTURE TYPES
Main screen (internal screen)	Still and animated pictures (animated .gif).
External screen	Still pictures.
Welcome screen (main screen)	Still and animated pictures (animated .gif).
Goodbye screen (main screen)	Still and animated pictures (animated .gif).

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Pictures**.
- 3 Use the [Up] and [Down] arrow keys to scroll through the image names list and select one. Select **Options** and then **Set as...**
- 4 Select **Set as Main screen**, **Set as External screen**, **Set as Welcome screen** or **Set as Goodbye screen**.

Cropping

If the image you want to set as an Standby display is too large to be inserted into the available space, your phone will propose a cropped image.



This allows you to move the image left, right, up and down (cursor key). The image you have cropped is then displayed as such on the phone (as a Standby display).

- 1 Select **Set as...** then select **Standby display**. If the image is too big, the crop screen is displayed.
- 2 Use the cursor key to move the image up, down, left or right (the availability of the four arrows depends on the image size).
- 3 Select **OK**. **Stored** is then displayed.

Receiving images via the infrared port

- 1 Open the infrared port (see "Infrared port", page 19) and make sure that the infrared port of the other appliance is facing your phone infrared port so that the image transfer is carried out correctly.
 - 2 When you have received an image, select **Options** then select **Full screen**.
 - 3 Select **Options** then **Details** to show the name, resolution, size, storage date and protection status of the current file.
- ⚠ 1. The images you receive via the infrared port are automatically stored in the Fun & Media box Pictures folder.
2. To select and activate a Standby display for your Main screen, your External screen, your Welcome screen or your Goodbye screen, see "Pictures", page 69.
3. You can also receive pictures by MMS and by Mail.

To access images stored on your miniSD™ Card

You can view pictures that are stored on your miniSD™ Card. The Options lists are the same as in the Pictures sub-menu.

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Pictures**, then **Memory card** (this item is only displayed when a miniSD™ Card is inserted).
- 3 Select the required picture or choose a folder (press **OK** to view its content) then select a picture.
- 4 Press **OK** or **Options** and **Full view** to view the selected image in full size.

■ Melodies

This sub-folder allows you to play/store pre-defined melodies or melodies you downloaded via the Infrared port or via the WAP™ browser, or you received by SMS, by Mail or by MMS. You can set these melodies as a ringtone for Line1 or Line2, an Alarm melody, a Message alarm melody, a Welcome or Goodbye melody. The melody formats supported by your phone are .smf, .mfii, .mid, .mfmp, .3gpp, .amr and Nokia™ Smart Messaging.

Melodies

To display the Melodies file contents

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Melodies**.
- 3 Use the [Up] and [Down] arrow keys to scroll to the required melody.

The following Options list is available while scrolling the melodies list..

OPTIONS	DESCRIPTION
Play	To play the selected melody. Scroll up (⏪) or down (⏩) to set the melody volume during the playback.
Set as...	To set the selected melody as a Ringtone for Line1 or Line2, as an Alarm melody, as a Message alert melody or as a Welcome melody or a Goodbye melody.
Send by...	To send the selected melody by Mail, by MMS or via the Infrared port.
Delete	To delete the current melody.
Delete all	To delete all the melodies of the current folder.
Multiple selection	To select several melodies (by pressing OK). Press OK to unselect a ticked melody. Select Options to access Send by... (Infrared port), Delete, Move to (a folder of Melodies or the miniSD™ Card), Copy to (a folder of Melodies or the miniSD™ Card), Select all (to select all the files of the current folder), Unselect all (to unselect all the ticked files).
Move to	To move the selected file to the miniSD™ Card or to one of the Melodies sub-folders.
Copy to	To copy the selected file in the miniSD™ Card or to one of the Melodies sub-folders.
New folder	To create a new sub-folder in the Melodies folder (available only if the selection is not a folder already).
Rename	To rename the selected melody.
Details	To view the current file name, size, storage date and file protection status information.
My preferences	To sort the stored melodies (by date, name, size).

⚠ You can only access the miniSD™ Card storage space if the miniSD™ Card is inserted in the phone.

If the selection is a sub-folder, another Options list is available: View, Delete, New folder and My preferences.

Melody download

You can download melodies from the Internet (via your PC), from interactive voice servers, from the WAP™ browser and mailer or via the infrared port .

In addition to the usual SMS download of melodies, you can download melodies by browsing internet web sites.

Mitsubishi Electric phones are compatible with the Nokia™ Smart Messaging system. The principle is as follows:

- 1 Melodies are stored on a Web server.
- 2 Select your Mitsubishi Electric phone type to access a choice of melodies.
- 3 Select one or more melodies to be downloaded to your phone.
- 4 All selected melodies are downloaded via SMS.
- 5 Once the melody is received, a reception screen is displayed. Press **OK** or select **Options** then **Play** to play the received melody.
To set a melody as a ringtone, a message alert melody, an alarm melody, a Welcome or a Goodbye, please see "Tones", page 94.

You can also receive melodies via the Infrared port.

Formats managed by the phone are .mid, .mfm, .3gp, .mld, .amr, .nsm and .imy formats.

To play a downloaded melody from the reception screen:

- 1 Select **OK** or select **Options** then **Play**.
- 2 Select **Exit** to stop the playback.

To store a downloaded melody:

- 1 Select **Options**.
- 2 Select **Install**.
If the memory space is sufficient, the melody is automatically stored in the Melodies file. If there is no space left, you need to select one or several melody(ies) to be replaced from the set of melodies (melodies associated with a ring feature cannot be deleted).
Once stored, a message is displayed. The melody can be played and selected via the **Fun & Media box** menu.

To discard a downloaded melody:

- 1 Select **Discard**. The melody is erased and is therefore lost for further installation.

To access melodies on your miniSD™ Card

You can store or play melodies on your miniSD™ Card. The Options lists are the same as in the Melodies sub-menu.

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Melodies**, then **Memory card** (this item is only displayed when a miniSD™ Card is inserted).
- 3 Scroll up or down to select the required melody or choose a folder (press **OK** to view its content) then select a melody.
- 4 The melody is played within 2 seconds

Videos

This sub-menu allows you to play videos that are stored on your phone. You can also send and receive these videos by Mail, MMS or via the Infrared port. The video file format supported by your phone is .3gp.

To access videos stored on your phone



- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Video**.
- 3 Scroll up and down to select the required video or select the required folder (press **OK** to view its content) then the required video.

Select Options to access the followings:

OPTIONS	DESCRIPTION
Play	To play the selected video.
Send by...	To send the selected video by Mail, by MMS or via the Infrared port.
Delete	To delete the current video.
Delete all	To delete all the videos in the current folder.
Multiple selection	To select several videos (by pressing OK). Press OK to unselect a ticked video. Select Options to access Send by... (Infrared port), Delete, Move to (to one of the Video sub-folders or to the miniSD™ Card), Copy to (a folder of Videos or the miniSD™ Card), Select all (to select all the files of the current folder), Unselect all (to unselect all the ticked files).
Move to	To move the selected file to the miniSD™ Card or to one of the Videos sub-folders.
Copy to	To copy the selected file in the miniSD™ Card or in one of the Videos sub-folders.
New folder	To create a new folder in the Videos sub-folder (available only if the selection is not a folder already).
Rename	To rename the selected video.

Details	To view the current file name, size, storage date and file protection status information.
My preferences	To sort the stored videos (by date, name, size).

 You can only access the miniSD™ Card storage space if the miniSD™ Card is inserted in the phone.

If the selection is a sub-folder, another Options list is available: View, Delete, New folder and My preferences.

To play a video



To get an optimised playback of your video, please watch it on the internal screen:

▶ **1** Press the [OK] key to play the selected video.

During the Play mode, during the Pause mode or when the video is stopped you can access the following options list:

OPTIONS	DESCRIPTION
Volume	To set the sound volume level (from 0 to 7).
Full screen	To play the video on full screen.
Loop mode	To play the video repeatedly.
Send by...	To send the current video via the infrared port, by an MMS or by a Mail.
Details	To display information about the file Name, the Title, the Author (the device name), the Resolution (width*height in pixels), the Duration of the video, the Size, the Storage date, the File protection status, the Description (if a text is attached to the video file), the Copyright of the recorded video, the Restriction status. The empty fields are not displayed.

 1. When the video track cannot be played or if there is no video track, the audio track only is played. The «Audio only» message is displayed.

2. During the Play mode opening or closing the clamshell sets the video to Pause. Press OK to re-start the playback.

3. You cannot play a video while a communication is in progress.

4. If an event (alarm, SMS receipt...) occurs while a video is being played, the playback is stopped.

To play the videos that you received by Mail or by MMS, please see "Saving received multimedia message content", page 34 and "Reading a received e-mail", page 39. To play the videos that are on a miniSD™ Card, please see "To access melodies on your miniSD™ Card", page 75.

While playing the video you can use the following shortcuts:

KEYS	DESCRIPTION
⓪	To mute the sound volume.
From ① to ⑦	To set the sound volume level (from 1 to 7).
⑧ & ⑨	To set the sound volume level to the maximum value.
*	To activate/deactivate the loop mode.
#	To activate/deactivate the full screen mode.
Ⓢ	To launch the Playback mode while in Stop mode or in Pause mode.
Ⓢ	To pause the video in Playback mode.
Ⓢ	To increase the sound volume level by one level (short press) or by several levels (long press).
Ⓢ	To decrease the sound volume level by one level (short press) or by several levels (long press).
Ⓢ	To stop the Playback.

How to play your video on the external screen

You can also watch the videos stored on your phone or on the miniSD™ Card (see "To access videos stored on your miniSD™ Card", page 75) on the external screen. However, to get an optimised display of the videos we advise you watch them on the internal screen.

- 1 Open the clamshell.
- 2 Press the [Menu/T9] key. Select **Fun & Media box**.
- 3 Select **Videos**, then select the required video.
- 4 Press **OK** or select **Options**, then **Play**.
- 5 Close the clamshell. The video is paused.
- 6 Press the [Camera/Video]  side key to start the Play mode.

 You cannot play a video while a communication is in progress.

Full screen option

This option allows you to watch videos on full screen. Please hold your phone horizontally to enjoy an optimised display of the video. You can use the side keys to play, pause or stop the video or to set the sound volume.

Receiving videos via the infrared port

- 1 Make sure the infrared port of the other appliance is facing your phone infrared port. Your phone infrared port automatically opens when the other appliance sends the file.
- 2 When you have received a video, select **Options** then select **Play** to watch the video, select **Details** to view the current file name, resolution, duration, size, storage date and file protection status information or select **Delete** to erase it.

To access videos stored on your miniSD™ Card

You can play videos that are stored on your miniSD™ Card. The Options lists are the same as in the Videos sub-menu.

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Videos**, then **Memory card** (this item is only displayed when a miniSD™ Card is inserted).
- 3 Scroll up or down to select the required video or choose a folder (press **OK** to view its content) then select a video.
- 4 Press the [OK] key to play the selected video.

■ Music

This sub-folder allows you to play/store MP3 melodies you downloaded via the Infrared port or via the WAP™ browser, or that you received by SMS, by Mail or by MMS. You can set these melodies as ringtones for Line1 or Line2, as an Alarm melody, a Message alarm melody, a Welcome or a Goodbye melody.

Music

To display the Music file contents

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Music**.
- 3 Use the [Up] and [Down] arrow keys to scroll to the required melody.

The following Options list is available while scrolling the melodies list..

OPTIONS	DESCRIPTION
Play	To play the selected music. Scroll up (◀) or down (▶) to set the music volume during the playback.
Set as...	To set the selected melody as a Ringtone for Line1 or Line2, as an Alarm melody or as a Message alert melody.
Send by...	To send the selected music file by Mail, by MMS or via the Infrared port.
Delete	To delete the current music file.
Delete all	To delete all the music file from the current folder.
Multiple selection	To select or deselect musics (by pressing OK). Select Options to access Send by... (Infrared port), Delete, Move to (a folder of Music or the miniSD™ Card), Copy to (a folder of Music or the miniSD. Card), Select all (to select all the files of the current folder), Unselect all (to unselect all the ticked files).
Move to	To move the selected file to the miniSD™ Card or to one of the Music sub-folders.
Copy to	To copy the selected file in the miniSD™ Card or to one of the Music sub-folders.
New folder	To create a new sub-folder in the Music folder (only applicable to music selection).
Rename	To rename the selected music.
Details	To view the current file name, size, storage date and file protection status information.
My preferences	To sort the stored music (by date, name, size).

 You can only access the miniSD™ Card storage space if the miniSD™ Card is inserted in the phone.

If the selection is a sub-folder, another Options list is available: View, Delete, New folder and My preferences.

To play the Music file

- ▶ **1** Press the [Menu/T9] key. Select **Fun & Media box**.
- 2** Select **Music**.
- 3** Use the [Up] and [Down] arrow keys to scroll to the required melody.
- 4** Press **OK** or select **Options** then **Play** to play the Music file.

While playing a Music file, you can switch from the **Loop** mode to the **Play all** mode by pressing the left softkey.

Music download

You can download music from the Internet (via your PC), from interactive voice servers, from the WAP™ browser and mailer or via the infrared port .

You can download music by browsing internet web sites:

- ▶ **1** When on a webpage containing MP3 files press **Option** and **Attachement**.
- 2** On the list of the files available select the required file.
- 3** Press **Option** (left softkey) and **Store** to store the selected music file on your phone. The file is store in the Music folder.

You can also receive music files via the Infrared port.

Formats managed by the phone are MP3 .mid, .mfm, .3gp, .mld, .amr, .nsm and .imy formats.

To play a downloaded music files from the reception screen:

- ▶ **1** Select **OK** or select **Options** then **Play**.
- 2** Select **Exit** to stop the playback.

To store a downloaded music

- ▶ **1** Select **Options**.
- 2** Select **Install**.
If the memory space is sufficient, the melody is automatically stored in the Melodies file. If there is no space left, you need to select one or several melody(ies) to be replaced from the set of melodies (melodies associated with a ring feature cannot be deleted).
Once stored, a message is displayed. The melody can be played and selected via the **Fun & Media box** menu.

To discard a downloaded music:

- 1 Select **Discard**. The music file is erased permanently.

To access music on your miniSD™ Card

You can store or play music files on your miniSD™ Card. The Options lists are the same as in the Music sub-menu.

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Music**, then **Memory card** (this item is only displayed when a miniSD™ Card is inserted).
- 3 Scroll up or down to select the required melody or choose a folder (press **OK** to view its content) then select a melody.
- 4 The melody is played within 2 seconds.

■ Speech notes

This feature allows you to record speech notes up to 25 minutes on your phone.

To record a speech note

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Speech note**.
- 3 If no speech note has been recorded, select **New**. If one/several speech note(s) is/are stored in the phone, select **Options** then **Record new**.
- 4 Select **Stop** to end the recording.
- 5 Enter the note name and press **OK**.

To select a speech note.

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Speech notes**.
- 3 Scroll up or down to select the required speech note or the required folder.

OPTIONS	DESCRIPTION
Play	To play the selected speech note(s).
Record new	To record a new speech note.
Set as...	To set the selected speech note as a ring tone for Line1 or Line2, as an alarm melody, as a message alert melody or as a Welcome or a Goodbye melody.
Send by...	To send the speech note via the Infrared port, by MMS or Mail.
Delete	To delete the current speech note.
Delete all	To delete all the speech notes of the current folder.
Multiple selection	To access the Multiple selection screen and select several speech notes. You can then select Options to Send the selected file(s) by infrared port, to Delete the selected file(s), to Move them to a Speech notes sub-folder or to the miniSD™ Card, to Copy them to a Speech notes sub-folder or to the miniSD™ Card, to Select all the speech notes or to Unselect all the ticked speech notes.
Move to	To move the selected speech note to the miniSD™ Card or to a Speech notes sub-folder.
Copy to	To copy the selected speech note to the miniSD™ Card or to a Speech notes sub-folder.
New folder	To create a new folder in the Speech note sub-folder (only available if the selection is not a folder already).
Rename	To change the name of the current speech note.
Details	To view information about the name, file size and recording date, and file protection status.
My preferences	To sort the stored images (by date, name, size).

 You can only access the miniSD™ Card storage space if the miniSD™ Card is inserted in the phone.

If the selection is a sub-folder, an Options list is available: View, Record new, Delete, New folder and My preferences.

To play a speech note

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Speech note**.
- 3 Scroll up or down to the required speech note. Press **OK** or Select **Options** then select **Play**. You can set the speech note volume by scrolling Up (**↶**) or down (**↷**).

To access speech notes stored on your miniSD™ Card

You can store (see "To record a speech note", page 79) or play speech notes that are stored on your miniSD™ Card. The Options lists are the same as in the Speech notes sub-menu.

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Speech notes**, then **Memory card** (this item is only displayed when a miniSD™ Card is inserted).
- 3 Scroll up or down to select the required speech notes or choose a folder (press **OK** to view its content) then select speech note.
- 4 Press **OK** or select **Options** then select **Play**.

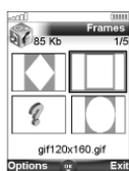
■ Frames

The frame border feature allows you to illustrate your pictures and give them a more personal and fun touch. You can add frames, speech balloons, etc. to the pictures stored in the Pictures folder or while doing your picture preview.

The frame folder contains all files that can be used as frame borders on the phone and may contain pre-embedded frames and sub-folders. The frame file type supported by your phone is .gif. When adding a frame to a picture, the new image is stored as .jpg file.

 It is not possible to add a frame to a video.

Frames browser



The Frames browser allows you to display the stored frames as a list or as a mosaic of frames. When the frames are displayed as a list the screen is divided into two parts: the frames names list and the selected frame. When they are displayed as a mosaic (Thumbnails mode: see 'Options/My preferences' below) the screen contains a mosaic of frames and the name of the selected frame.

While browsing the Frames folder the following Options list is available (left softkey):

OPTIONS	DESCRIPTION
View	To view the frame and its name.
Delete	To delete the current frame.
Delete all	To delete all the frames of the current folder.
Multiple selection	To select several frames (by pressing OK). Press OK to unselect a ticked frame. Select Options to access Delete, Move to (a Frames sub-folder), Copy to (a Frames sub-folder), Select all (to select all the files of the current folder), Unselect all (to unselect all the ticked files).
Move to	To move the current image to the Frames folder or to one of the Frames sub-folders.
Copy to	To copy the current image in the Frames folder or to one of the Frames sub-folders.
New folder	To create a sub-folder in the Frames folder.
Rename	To rename the current picture.
Details	To show the name, resolution, size, storage date and protection status of the current file.
My preferences	To sort the stored frames (by date, name, size) and select a view mode (List, Thumbnails 4 to display a 4-frame mosaic or Thumbnails 9 to display a 9-frame mosaic) to change the Frames browser mode.

1. If the selection is a sub-folder, another Options list is available.
2. You cannot transfer a frame out of the Frames folder (e.g. to the miniSD™ Card).
3. Error messages may be displayed when setting, viewing or storing an image: 'File too big' (please see "Error messages", page 111); 'Decoding failure': the frame cannot be viewed by the phone.
4. The miniSD™ Card is not accessible from the Frames folder.

Viewing a frame

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Frames**.
- 3 Scroll the frames list or mosaic. Select the required frame or select **a folder** to view its content (press **OK**).
- 4 Press **OK** or **Options** then **View** to view the selected frame in full size.

An **Options** menu is available.

OPTIONS	DESCRIPTION
Full view	To view the frame in full screen.
Delete	To delete the current picture.
Slide show	To automatically display all the frames of the selected folder one after another.
Details	To show the name, resolution, size, storage date and protection status of the current file.

Adding a frame to your picture

This feature allows you to add a frame to your preview (internal or external screen) before capturing an image. According to the selected frame, you may need to use your phone horizontally or vertically in order to make the preview screen content fit your frame.

Closed clamshell

- 1 From the standby display, press the [OK] key to access the Camera application.
 - 2 Select **Options** then **Frames**. The frames list or mosaic is displayed.
 - 3 Scroll down the frames list or mosaic. Select the required frame or select a folder then select the required frame. A preview with the selected frame over your picture is displayed so that you can define your picture settings and view the final result.
 - 4 Press **OK** to confirm your selection.
 - 5 Close the clamshell then open the lens cover. Your preview with the selected frame is displayed. Capture your image (please see "To take a picture", page 56)
- ⚠ 1. The new picture is stored in the Pictures folder as a .jpg file.
2. When taking a picture, the preview size is automatically adapted to the selected frame size. Modifying the preview size removes the frame.

Open clamshell

- 1 From the standby display, press the [OK] key to access the Camera application.
 - 2 Select **Options** then **Frames**. The frames list or mosaic is displayed.
 - 3 Scroll down the frames list or mosaic. Select the required frame or select a folder then select the required frame. A preview with the selected frame over your preview is displayed so that you can define your picture settings and view the final result.
 - 4 Press **OK** to confirm your selection.
 - 5 Press **OK** to capture your picture.
- ⚠ 1. The new picture is stored in the Pictures folder as a .jpg file.
2. To take self-portraits the phone displays mirrored images on the main screen.
3. When capturing a picture, the preview size is automatically adapted to the selected frame size. Modifying the preview size removes the frame.

Adding a frame to a stored picture

This feature allows your to add a frame to a stored image.

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
 - 2 Select **Pictures**.
 - 3 Scroll down the frames list or mosaic. Select the required frames or select **a folder** then select the required picture.
 - 4 Select **Options** then **Add frame**. The frames list or mosaic is displayed.
 - 5 Scroll down the frames list or mosaic. Select the required frame or select a folder then select the required frame. A preview screen with the selected frame over the current picture is displayed so that you can view the final result.
 - 6 Press **OK** to confirm your selection. The new picture and its name are displayed.
 - 7 Select **Options** then **Store** to save the new picture.
- ⚠ 1. The new picture is stored in the Pictures folder as a .jpg file. In case of format conversion the quality of the new picture is not guaranteed.
2. The picture size is adapted to the frame size.
3. If the source picture is protected by a copyright, you may not be allowed to add a frame to this picture.

Frames downloading

You can download frames via the WAP™ browser (please see "Go to site", page 93). It is not possible to send or to transfer a frame to a folder other than the Frames folder or to another device (the miniSD™ Card, a PC, etc.). The frames you received via the WAP™ browser, by e-mail and MMS are automatically stored in the Frames folder.

 If the download frame format is not recognized by the phone, the frame file is stored as a picture.

Java™ applications

Java™ and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc., in the US and other countries.



This sub-menu allows to launch Java™ games and applications that are stored on your phone, and upgrade or delete downloaded games and applications.

Your phone may not bear pre-stored games and/or applications (operator dependent).

To launch a java™ application

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Applications**.
- 3 Select **Applications** to launch a game or an application you previously downloaded on your phone (see "To download a java™ application", page 83) or **Default apps**, to launch a pre-embedded game or application.
- 4 Select one of the available games and applications or select **Options** and then select **Run**.

When on the downloaded application list the following options submenu is available:

OPTIONS	DESCRIPTION
View	To view the application detailed content.
Run	To launch the game or the application.
Delete	To delete a game or an application.
Delete all	To delete the stored games and/or applications.
Permissions	To modify the security permissions of the midlet suite. This option gives access to the Set up call, Set up connection, Send an SMS, Auto-start app. and User IrDA/serial options.
Details	To view the game/application name, size, version and manufacturer.

-  1. The Default applications menu is not available if no pre-embedded application is available.
2. The contents of the Option menu may change from a game/application to another.

When running a game and/or application actions are linked to the following keys:

KEY	ACTION
	To move left.
	To move right.
	To move down.
	To move up.
OK and 	To fire.
	Game D.
	Game A.
	Game B.
	Game C.

-  1. Access to actions on keys , ,  and  depends on the current game. The actions linked to these keys may depend on the launched game or application. Please read the game/application instructions for full details.
2. Beware: If the features of the downloaded game(s) do not comply with the phone capabilities, the application may not run properly.
3. Receiving an incoming call while playing may not allow you to resume the current game.

To download a java™ application

Java™ applications are to be downloaded via the Wap™ application (please see "Starting a Wap™ session", page 90):

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
 - 2 Select **Applications**.
 - 2 Select **Get new apps** and select Yes to allow the connection to the WAP™ server.
 - 2 Once on a Wap page containing Java™ games/applications, select the game/application you want to download.
 - 2 Select **Retrieve** (Left softkey) to download the game/application on your phone.
- ⚠ 1. Games and applications download may require a delivery charge. Please check downloading and billing conditions with your service provider.
2. You cannot install a Java™ game/application that was received by e-mail, MMS or via the infrared port (Java™ games & applications are copyright protected).

Settings

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Applications**.
- 3 Select **Settings**.

The Settings menu is made of the following items:

ITEM	ACTION
Profiles	Select Profiles to access the list of available profiles.
Permanent Backlight	Select On to set the backlight continuously On while running a Java™ game or application. Selecting Off keeps the backlight standard behaviour.

⚠ When on an existing profile the options Select, View and Delete are available.

To add a profile:

A profile is a list of parameters that allow the connection of applications when needed (please see "storing the connection settings" on page 88 and "connection manager" on page 99):

- 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Applications**.
- 3 Select **Settings**. Select **Profiles**.
- 4 Select an empty profile ([...]).
- 5 Enter the Profile name.
- 6 Select **Connection profiles** and select or type the required information.

⚠ Please contact your service provider to get your Profile details.

To create a new profile, you can also use the assistant feature by pressing **Assist**. (left softkey).

■ Others

This menu allows you to store/view/play vcard files (Phone book), vcalendar files (Diary cards), vbookmarks (Web bookmarks), root certificates files, text files and files with unknown/unsupported format.

To display the others file contents

- 1 Press The [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Others**.
- 3 Use the [Up] and [Down] arrow keys to select the required file.

The following Options list is available:.

OPTIONS	DESCRIPTION
View	To view the file contents.
Store	To store the selected file in the corresponding application folder.
Install	To launch the installation of a java application.
Send by...	To send the text, the selected vCards, the selected vCalendars, the vBookmark(s) and the unknown file(s) via the infrared port. To send the current vCard via the infrared port, by SMS or by Mail. To send the current vCalendar via the infrared port, by SMS.
Delete	To delete the current file.
Delete all	To delete all the files of the current folder.
Multiple selection	To select several files (by pressing OK). Press OK to unselect a ticked file. Select Options to access Send by... (Infrared port), Delete, Move to (a folder of Others or the miniSD™ Card), Copy to (a folder of Others or the miniSD™ Card), Select all (to select all the files of the current folder), Unselect all (to unselect all the selected files)
Move to	To move the selected file to the miniSD™ Card or to an Others sub-folder.
Copy to	To copy the selected file to the miniSD™ Card or to an Others sub-folder.
New folder	To create a new folder in the Others folder (only available if the selected file is not a folder already).
Rename	To rename the selected file.
Details	To view the current file name, size, storage date and file protection status information.
My preferences	To sort the stored files (by date, name, size).

- ⚠ 1. You can only access the miniSD™ Card storage space if the miniSD™ Card is inserted in the phone.
- 2. The contents of this Options list may vary according to the file type.
- 3. You cannot send any copyright protected file (the 'File protected' message is displayed on any attempt to send copyright protected files).

If the selection is a sub-folder, an Options list is available: View, Delete, New folder and My preferences.

Data exchange

This feature allows the easy transfer of vCards and vCalendars to/from another device (phone, PC,...).

Storing a received vCard

- ▶ 1 Select **Options** (left softkey) on the information screen when you have received the file.
- 2 Select **View**.
- 3 The received file is displayed. Select **Store**.
- 4 Select **Phone names, SIM names, SIM fixed** or **My card**. The vCard is then stored.

- ⚠ A received file may contain several vCards. Select the one(s) you want to keep, then select Store.

Storing a received vCalendar

- ▶ 1 Select **Options** (left softkey) on the information screen when you have received the file.
- 2 Select **View**.
- 3 The received file is displayed. Select **Store**.

- ⚠ A received file may contain several vCalendars. Select the one(s) you want to keep, then select Store.

Storing a received vBookmark

- ▶ 1 Select **Options** (left softkey) on the information screen when you have received the file.
- 2 Select **View**.
- 3 The received file is displayed. Select **Store**.

- ⚠ A received file may contain several vBookmarks. Select the one(s) you want to keep, then select Store.

Sending a vCard or a vCalendar by SMS

- ▶ 1 Select the vCard or the vCalendar you wish to transfer as explained in "Diary", page 16, "Calendar", page 16 and "Tasks list", page 18 or select it from **Others**.
- 2 Select **Options**.
- 3 Select **Send by...** then **SMS**. A warning may be displayed regarding the number of required SMS to send the card (where more than 1 SMS is required).
- 4 Select **OK** if you wish to continue.
- 5 Enter the number to which you want to send the vCard or the vCalendar, or select a name from the **Names** list.

To access other files stored on your miniSD™ Card

You can store or view other file types that are stored on your miniSD™ Card. The Options lists are the same as in the Others sub-menu.

- ▶ 1 Press the [Menu/T9] key. Select **Fun & Media box**.
- 2 Select **Others**, then **Memory card** (this item is only displayed when a miniSD™ Card is inserted).
- 3 Scroll up or down to select the required file or choose the required folder (press **OK** to view its content) then select a file.
- 4 Select **Options** then select **View**.

■ **Storage used**

To consult the percentage of memory used for the Pictures, Melodies, Videos, Frames, Speech note and Others folders:

- ▶ 1 Press the Menu/T9 key. Select **Fun & Media box**.
- 2 Select **Storage used**. The total memory used is displayed (all file types). Select **Details** to view storage information per file type.
- 3 Use the [Up] and [Down] arrow keys to scroll to the required information type (Pictures, Melodies, Videos, Frames, Speech note, Others).

⚠ The Fun & Media box space is managed as a single folder. The Pictures, Melodies, Videos, Frames, Others and Speech note files therefore share the same space in the phone. You may not be able to store more files. You can however remove pictures, for instance, to free some space and create a new Speech note.



miniSD™ is a trade mark of SD Card Association.

The miniSD™ Card is an external device that is used as an extra storage space or a data transferring tool. MiniSD™ Card is able to store all file formats. However you can only view those file formats that are supported by your phone.

Please only use approved miniSD™ Card in your mobile phone. Contact your retailer for details.

The M900 mobile phone was designed to be used solely with a miniSD™ Card. Any attempt to use another memory card type may damage the phone and be hazardous. Damage resulting from such use shall not be covered by our guarantee.

■ Handling and storage precautions

- Keep out of reach of children. If swallowed, seek medical advice immediately.
- When using the card with SD compatible equipment, make sure to insert and remove together with the Adapter as one. Do not remove the card while the Adapter is in equipment. Misuse can cause malfunction or damage the equipment or data.
- This card is formatted to the miniSD™ Card standard. If reformatting is ever necessary, format it using SD compatible equipment or SD formatting software. Formatting the card with any other software will make the card nonstandard and cause problems with compatibility and performance.
- After removing the card and the Adapter from equipment, immediately store them in its case. When storing the card, insert into the Adapter.
- Do not disassemble or remodel.
- Do not impact, bend, drop, or wet.
- Do not touch the metal terminals with your hands or metal objects.
- Do not allow dust, garbage, etc. to get in the Adapter's slot.
- Do not attach other labels or stickers.
- Do not use or store in locations that may be affected by static electricity or electric noise.
- Do not use or store in locations directly exposed to sunlight, a heat vent, or a heating appliance.
- Do not use or store in humid or dusty locations or in locations exposed to corrosive gases.

■ Protecting your data

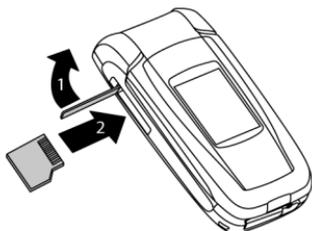


- When inserting the card into the Adapter, we advise you switch the write-protect switch to **LOCK** (switch down) to prevent accidental loss of data. Unlock (switch up) when you want to record or edit the card again.

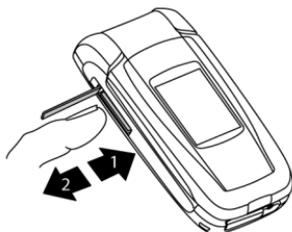
- Use an oil-based felt pen to write on the card or the Adapter. Do not use pencils or ballpoint pens as these can damage the card, the Adapter or data on the card. Take care to keep the metal terminals free from ink.
- While data is being read or written, do not remove the card or turn off any equipment using the card. Do not remove the batteries from battery-operated equipment. These actions can cause data to be destroyed.
- Make backup copies of your data wherever possible.

■ How to insert/extract your miniSD™ Card

Inserting your miniSD™ Card in your phone: **golden contacts Up**.



Extracting your miniSD™ Card:



The miniSD™ Card must NOT be inserted with the arrow symbol and miniSD™ brand name Up.



Inserting your miniSD™ Card in the Adapter:



The miniSD™ Card must be formatted in your phone before its first use (please see "How to configure your miniSD™ Card", page 86). If the formatting is done via another device (e.g. a PC) you may not be able to use your miniSD™ Card on your M900.

■ How to access the miniSD™ Card contents

You can access the files that are stored on your miniSD™ Card via the sub-folders of the Fun & Media box application (Pictures, Melodies, Videos, Speech notes, Others).

To view the files that are stored on a miniSD™ Card, please follow the standard process described for each of the corresponding sub-folders.



The miniSD™ Card item is only available in the Fun & Media box sub-folders if it is inserted in the phone.

To access pictures

See "To access images stored on your miniSD™ Card", page 71

To access melodies

See "To access melodies on your miniSD™ Card", page 73

To access videos

See "To access videos stored on your miniSD™ Card", page 75

To access music

See "To access music on your miniSD™ Card", page 77

To access speech notes

See "To access speech notes stored on your miniSD™ Card", page 80

To access other files

See "To access other files stored on your miniSD™ Card", page 85

- ▲ 1. When using your miniSD™ Card with your PC, you can access a folder list corresponding to the Fun & Media box sub-folders (Pictures, Melodies, Videos, Music, Speech notes, Others). We advise you put each file in the corresponding folder otherwise it may not be read by the phone.
- 2. Some files you created on your miniSD™ Card via other devices may not be accessible by the phone.
- 3. You are not allowed to transfer or to copy protected files from your phone to your miniSD™ Card or other devices.
- 4. The miniSD™ Card content is not accessible if the battery level is too low ("Not allowed: battery too low" appears) and if the storage space is full ("Not enough space")

■ How to configure your miniSD™ Card

The miniSD™ Card must be formatted in your phone before its first use

- ▶
 - 1 Insert the miniSD™ Card in the phone.
 - 2 The 'Format card' screen is displayed. Select **Yes** to format your miniSD™ Card. If you select **No**, your miniSD™ Card is not formatted and cannot be used with your phone.
- ▲ 1. The first time you use your miniSD™ Card, do not format it via another device (e.g. your PC).
- 2. Formatting your miniSD™ Card deletes all the files on it.
- 3. Removing your miniSD™ Card during the formatting process can damage it.

You can also format your miniSD™ Card via the Settings menu. Formatting your miniSD™ Card deletes all the files on it. Do not forget to back up or transfer your files on your phone internal memory or on another device before going over the formatting process.

- ▶
 - 1 Insert the miniSD™ Card in the phone.
 - 2 From the standby display, press the [Menu/T9] key. Select **Settings**.
 - 3 Select **Memory card**.
 - 4 Select **Format card**.
 - 5 Select **Yes** then press **OK** to launch the miniSD™ Card formatting. An information screen is displayed during the process.
- ▲ Removing your miniSD™ Card during the formatting process could damage it.

■ Storage used

To check the remaining storage space on a miniSD™ Card:

- ▶
 - 1 Insert the miniSD™ Card.
 - 2 From the standby display, press the [Menu/T9] key. Select **Fun & Mediabox**.
 - 4 Select **Storage used**. The total phone memory used is displayed (all file types).
 - 5 Use the [Up] and [Down] arrow keys to scroll to the required information type (**Memory card**).

CALENDAR



The availability of this menu is network dependent. If your SIM card does not contain an access to the Network services the Calendar menu is accessible from the Menu icons.

Please see "Calendar", page 16 for full details.

NETWORK SERVICES



The availability of this menu is network dependent (it may not be available or be named Network services, Network,...).

Your network operator may provide value added services, information and contact phone numbers. These services and phone numbers are stored in your SIM card and appear on the phone menu as they are accessible from the [Network serv.](#) menu. Please contact your service provider for further details.

Some operators may provide up to two services on the same SIM card. The displayed sub-menus in the [Network serv.](#) menu may then be named **Applications, Services or Information.**

Three kinds of services can be registered in this menu:

SIM application tool kit

An automatic way to provide services related to your network. These services are SIM card dependent.

SND numbers stored in the SIM card

Up to 32 numbers may be stored in the SIM. These numbers cannot be modified or deleted.

Information numbers

A list or a menu allowing calls to network or information services offered by the network.



Your phone allows Wap™ (Wireless Application Protocol) connections to access operator and/or Wap™ provided services (e.g. news, sports, weather, travel buying, etc.).

To get a Wap™ connection please make sure:

- your SIM card bears a Data subscription
- all the necessary parameters are stored into the phone. These parameters may have been set by your operator. If not you have to enter them manually.

Please contact your service provider to check these elements and get the detailed list of parameters to be entered.

■ Storing the connection settings

The current date and time must be set before you enter any Wap™ connection setting.

The profile list can contain up to 10 Wap™ profiles. A profile is a list of parameters that allow Wap™ connections.

To enter and store the profile details

You can only register profile details via the standard mode if you have previously registered profiles in the Connection manager menu (see "Connection manager", page 99):

- ▶ 1 Press the [Menu/T9] key. Select **Wap**.
- 2 Select **Settings**.
- 3 Select **Wap profiles**.
- 4 Choose an empty profile (...) by selecting **OK**.
- 5 Enter the profile name and select **OK**.
- 6 Select **Home page**. Select **List** to select one of the available home page addresses or the http:// and https:// root addresses, or type in the url address.
- 7 Select **Connection profiles**. Enter the requested information (the GSM connection and GPRS connection fields are linked to the Connection manager and thus allow to pick one from the displayed list - see "Connection manager", page 101). Select **Save** to store the data.
- 8 Select **Gateway settings** and type in the IP address.
- 9 Select **Push parameters** (please contact your service provider to get the information to be entered). Your Wap profile is then stored.

- ⚠ 1. All the requested parameters are obtainable from your network operator and/or Wap™ provider.
2. The phone number or access point name, the login and the password are to be stored in the Connection Manager (see "Connection manager", page 101).
3. Access to the connection settings may depend on the pre-programmation of the settings. The connection settings menu may not be available in some cases. These settings may be 'Locked' and not be user programmable.
4. You can request the activation of the security feature from the profiles list (Advanced settings / Activate security).
5. Your service provider may require to have the security context reset. Select Yes.

■ Starting a Wap™ session

If several Wap™ profiles are stored, you need to select one before launching a session:

- ▶ 1 Press the [Menu/T9] key. Select **Wap**.
- 2 Select **Settings**.
- 3 Select **Wap profiles**.
- 4 Scroll to the required profile and choose one by pressing **OK** (**Selected** is displayed).

- ⚠ If the profile was already selected, pressing OK directly leads to the profile contents.

To launch a Wap™ session from the idle menu:

- ▶ **1** Press the [Menu/T9] key. Select **Wap**.
- ▶ **2** Select **Home page**.
The Wap™ connection is then launched and the list of the available site services is displayed once the page was downloaded.
If the activated Wap™ profile is not correctly set or if your subscription does not allow you to reach the selected Wap™ site the **Not available** then **Connection failure** messages are displayed.

To launch a Wap™ session from the standby screen:

- ▶ **1** Press and hold the **OK** key.
- ▶ **2** The Wap™ connection is launched and the list of the available site services is displayed once the page is downloaded.
If the activated Wap™ profile is not correctly set or if your subscription does not allow you to reach the selected Wap™ site the **Not available** then **Connection failure** messages are displayed.

Once connected the Wap™ browser is displayed. The  icon at the top of the display indicates a GSM connection. The  icon is shown if your phone is connected to a GPRS network during the Wap™ session.

 During a WAP™ session, if a page contains more information than it can be displayed in the application part, a scroll bar is displayed on the right part of the screen.

Getting to the options menu while online.

In the absence of **Options** while online pressing the call key during a live connection shows the following options menu:

ITEM	ACTION
Back	To go back to the previous page.
Reload	To reload the current Wap™ page.
Save...	To access the Save page, Save as bookmark, Attachments sub-menus
Home page	To go to and reload the home page.
Bookmarks	To provide immediate access to the bookmarks. You can add a new bookmark or select an existing bookmark.
Go to site...	To go to another Wap™ site.
Saved pages	To access the list of the saved pages.
Push inbox	To access the Push inbox.
Settings	Same as when offline.
Storage used	To access the statistics screen of the Wap features
Disconnect	To disconnect the browser from the network. However the browser remains active locally with the current page displayed.
Close session	To disconnect from the network, close the browser and get back to the Wap menu.

 The availability of these options is operator dependent. It may also depend on the contents of the displayed page.

■ Ending the online connection

To end the Wap™ connection:

- ▶ **1** To disconnect press the end key or press **Options** and select **Disconnect**.

To close the session:

- ▶ **1** Press **End** or press **Options** and select **Close session**. Connection to the Wap™ server is then ended.

To disconnect, then close the session:

- ▶ **1** Press the end key twice.

■ Personalising your connection settings

The following user settings are available and enable to optimise the phone behaviour during Wap™ connection

- 1 Press the [Menu/T9] key. Select **Wap**.
- 2 Select **Settings**.
- 3 A list allows to select different options:

OPTION	ACTION
Wap profiles	To enter and register profile details.
Preferred bearer	To select GSM or GPRS as a default bearer when defining mixed based (GSM + GPRS) profiles. If an error is detected the other bearer is then proposed and may be used ('Use alternate connection mode?' is displayed).
My preferences	To configure the browser and allow it to display the pages in large or normal fonts, to allow or forbid pictures download and script execution in Wap™
Push preferences	See "Receiving push messages", page 91.

 The Preferred bearer sub-menu may not be available on your phone (operator dependent feature).

During page browsing, security can be activated (on a https link only). This lets you continue local browsing (via the cards in the memory). When a connection to the network is needed again, a secured connection is requested to the same profile.

When the secured connection is established, the  icon at the top of the display indicates a circuit connection in secure mode. The  icon is shown if your phone is connected to a GPRS network during the Wap™ session in secure mode.

 When activating the secured mode the mobile and the server undergo exchanging certificates. You may then be asked to accept this exchange.

Creating bookmarks

Bookmarks provide direct links to determined Wap™ pages. You can create and store maximum 20 bookmarks in your phone.

There are two ways of registering bookmarks:

Directly from the standby display,

- 1 Press the [Menu/T9] key. Select **Wap**.
- 2 Select **Bookmarks**. The list of bookmarks is displayed in alphabetical order.
- 3 Select an empty entry (**[...]**). Select and enter the requested information in the following fields:

ITEM	ACTION
Alias	Name you want to give to your bookmark
Address	Home page address (if known)

- 4 Select **Save** to store the data.

During a Wap™ session whilst viewing a page:

- 1 Press the call key.
- 2 Select **Bookmarks**, then follow the above procedure.

 Bookmarks can be Edited or Deleted from the Bookmarks item under the Wap™ menu options whilst offline or online.

Using bookmarks

Bookmarks can be used:

- directly from the standby display:

- 1 Press the [Menu/T9] key. Select **Wap**.
- 2 Select **Bookmarks**.
- 3 Select the bookmark name you require to directly connect to the corresponding Wap™ site.

- whilst you are browsing the Wap™:

- ▶ 1 Press the call key to display the options menu.
- ▶ 2 Select **Bookmarks**.
- ▶ 3 Select one of the bookmark names to access the required Wap™ site.

- ⚠ 1. Selecting OK directly tries to reach the bookmarked page.
2. On an existing Bookmark entry the options Go to Bookmark, View, Delete, Send and Export all are available.

Go to site

The following sub-menu allows easy access to Wap™ sites:

- ▶ 1 Press the [Menu/T9] key. Select **Wap**.
- ▶ 2 Select **Go to site....**
- ▶ 3 A list allows to freely enter or select Wap™ sites addresses:

OPTION	ACTION
Last page	To connect to the latest page accessed with the Wap browser.
Site history	To directly go to one of the pages you have already been to.
New address	To enter a Wap™ site address you want to reach.
New Bango address	To enter a Bango address site.

- ⚠ 1. The New Bango address option may not be available on your phone. Please check with your service provider.
2. Addresses are not stored in New address and New Bango address. They must be entered each time these features are used.

Saved pages

You can access a list of pages you have previously stored:

- ▶ 1 Press the [Menu/T9] key. Select **Wap**.
- ▶ 2 Select **Saved pages**.
- ▶ 3 A list allows to freely enter or select Wap™ sites addresses:

The items are ordered by storage date.

The following Options menu is available:

OPTIONS	ACTION
View	To view the selected saved page.
Delete	To delete the selected saved page.
Delete all	To delete all the saved pages.
Rename	To change the name of the selected saved page.

Receiving push messages

A push message is a message sent via a service/Wap™ provider. Push messages can bear promotional or general information (e.g.: weather forecast). To view the related information you need to connect to the Wap™ server.

The push messages are displayed on the phone and/or stored in the Push Inbox, according to the Push settings. At the end of the transmission the push reception session is ended.

The Push Inbox allows to consult and delete the stored messages but also to launch the connection to related server to retrieve the information.

When the Push Inbox contains new message(s), an information message is displayed in the standby display with a direct access to the inbox.

To set the push reception parameters:

- 1 Press the [Menu/T9] key. Select **Wap**.
- 2 Select **Settings**.
- 3 Select **Push preferences** and set the different parameters :
1/ Accept push info:
Never: to forbid push messages reception.
Current profile: to allow only push messages from the current Wap™ profile.
All profiles: only allows push messages from the configured Wap™ profiles.
Always: no filtering, allows reception of all push messages.
2/ Push quiet mode:
on/off: push message information displayed/not displayed on push message reception.
3/ Accept provisioning:
see information above about Accept push info. To allow, forbid or filter messages bearing connection profiles to connect to Wap™ sites.

To consult a push message in the Push inbox:

- 1 Press the [Menu/T9] key. Select **Wap**.
- 2 Select **Push inbox**. Summaries of all push messages are displayed according to their reception date and time.
- 3 Press **Options** then select **Read text** to display the selected message text in full screen mode.

The following options may also be available:

OPTIONS	PURPOSE
Read text	To provide access to the message text (possibly on several pages)
Summary	To return to the summary display
Preview	To connect to the service but keep the message in the inbox allowing another access to the same service later
Retrieve	To connect to the service and delete the message from the inbox when the connection to the service is made.
Delete	To delete the item
Delete all	To delete all inbox push messages
Details	To provide the expiry date for this item (if available)

 This options list may change according to the push message received.

Storage used

- 1 Press the [Menu/T9] key. Select **Internet**.
- 2 Select **Storage used** to get detailed information on Site history, Saved pages, Push inbox and Cache.

Melodies download

See "Melody download", page 74 for information on melody download from Wap™ sites.

■ Advanced settings on Wap™ profiles

The advanced settings are used to support specific configurations and improved services available on certain Wap™ gateways. This menu is operator dependent and may not be available on your phone. These parameters are displayed as Wap™ profile items.

To get to the Advanced settings menu:

- 1 Press the [Menu/T9] key. Select **Wap**.
- 2 Select **Settings**.
- 3 Select **Wap profiles**.
- 4 Select **Options**.
- 5 Select **View**.
- 6 Select **Advanced settings**. The following options are available:

OPTION	DESCRIPTION
Send characteristics	To allow the sending of the phone characteristics to the remote server.
Activate security	To activate or deactivate the security level for the current profile.
Use SAR	To activate or deactivate the SAR (Segmentation And Reassembly) protocol (to enable the download of large data).
Encoding version	To display the possible encoding versions. Select 1.1, 1.2, 1.3 or 1.4.
Normal port	To edit the port address for non secure connections.
Secure port	To edit the port address for secure connections.
Use download fun	To activate or deactivate the use of the Openwave™ solution (to manage the download of large data).
Use range	To activate or deactivate the range service.

 The availability and contents of this menu is operator dependent.

SETTINGS



This menu allows you to set up your mobile phone as per your own preference.

Tones

Alert mode

You can set the ring, alert and alarm tone types via the **Mode** menu.

- ⚠ If you select the 'Vibrate' or 'Vibrate then ring' option, the vibrating option replaces all the alert and alarm tones.

To modify the alert mode:

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Tones**.
- 3 Select **Mode**.
- 4 Select one of the available settings (**Ring**, **Silent**, **Vibrate**, **Vibrate & ring** or **Vibrate then ring**) and press **OK** to validate.

or:

- ▶ 1 From the standby display, press the [Up] arrow key.
- 2 Select one of the available settings (**Ring**, **Silent**, **Vibrate**, **Vibrate & ring** or **Vibrate then ring**) and press **OK** to validate.

- ⚠ 1. If the Alert mode is set to Silent, the 🚫 icon is displayed on the Standby display.
- 2. If the Alert mode is set to Vibrate, Vibrate & ring or Vibrate then ring, the 📞 icon is displayed on the Standby display.
- 3. When the phone is connected to either the Desk Top Charger, HF kit, CLA or AC adaptor, the vibrator mode selection is temporarily inhibited and the phone rings instead of vibrating.

Ringtone selection

You can select a melody, a speech note or a music file from the available ring tones stored in the phone.

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Tones**.
- 3 Select **Ringtones**.
- 4 Select **Incoming call**, **Incoming call L2**, **Alarm** (then select Melodies, Music, Speech notes) or **Welcome melody** (On switching on the phone, a welcome melody plays before the Standby display is displayed) or **Goodbye melody** (on switching off the phone, a Goodbye melody plays).
- 5 Scroll up or down to listen to the different ringtones. Select one by pressing **OK**.
- 6 Select **Save** to store your settings.

- ⚠ 1. When scrolling up or down, wait for a few seconds for the selected melody to be played (except when on Silent mode).
- 2. The 'No sound' item may be selected to deactivate the Welcome and Goodbye melodies.
- 3. You can set a ringtone for each of your phone book cards (please see "Setting a melody, a music or a speech note as a ringtone", page 47). This ringtone is played on receipt of an incoming call.
- 4. You can only choose a melody, a speech note or a music while selecting a ringtone for your incoming call, incoming call L2 or alarm.

Volume adjustments

The ring tone, key tones, conversation and alarm tones (alarm clock, diary alarm and low battery alarm) audio levels can all be individually set via the **Settings** menu:.

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Tones**.



- 3 Select **Volume**.
- 4 Select **Ring, Keys, Conversation** or **Alarm**.
- 5 Scroll up or down to adjust the settings. You can also use the numeric keys to set the required audio level: pressing **2** sets the volume to **2**, pressing **6** or **7** sets the volume to **6** or **7**, pressing **0** sets the volume to the minimum value (**1** for speech and **0** for all others).
- 6 Press **OK** to validate the setting.
- 7 Select **Save** to store your setting.

- ⚠**
1. If the ringtone volume level is set to 0, the  icon is displayed on the Standby display.
 2. Setting the key tones to 0 deactivates the key tones.
 3. You can set the conversation volume by using the [Up]  side key (to increase the sound volume level) or the [Down]  side key (to decrease the sound volume level).

Ramping

When activated, this feature gradually increases the incoming ringtone to the maximum volume level if the call is not answered after the first ring.

- ▶
- 1 Press the [Menu/T9] key. Select **Settings**.
 - 2 Select **Tones**.
 - 3 Select **Volume**.
 - 4 Select **Ramping**.
 - 5 Select **On**.
 - 6 Select **Save** to store your setting.

Display

Main screen

You can set a pre-embedded picture (see "Fun & media box", page 69). To select a background image for your Main screen:

- ▶
- 1 Press the [Menu/T9] key. Select **Settings**.
 - 2 Select **Display**.
 - 3 Select **Main screen**.
 - 4 Select **Pictures** (see "Pictures", page 69) to select one of the stored images or select one of the five available background images.
 - 5 Select **Save** to store your setting.

- ⚠**
1. The Urban theme changes twice a day: a night screen is set at 7 p.m. and a day screen at 7 a.m.
 2. The Meridian theme displays the origin and the secondary clocks.
 3. You can also set your Main screen image from the Pictures menu (see "Setting a still or animated image as a standby display (for the Main screen or the External screen), as a Welcome screen or as a Goodbye screen from the Pictures folder", page 71).
 4. The above mentioned background themes may not all be available on your phone.

External screen

You can set a still image to personalise your phone External screen.

To select a background image for your External screen:

- ▶
- 1 Press the [Menu/T9] key. Select **Settings**.
 - 2 Select **Display**.
 - 3 Select **External screen**.
 - 4 Select **Default** to set the default image as standby screen for your External screen or select **Pictures** (see "Pictures", page 69) to select one of the stored pictures.
 - 5 Select **Save** to store your setting.

- ⚠**
- You can also set your External screen image from the Pictures menu (see "Setting a still or animated image as a standby display (for the Main screen or the External screen), as a Welcome screen or as a Goodbye screen from the Pictures folder", page 71).

Welcome screen

Upon switching on your phone, a Welcome screen is displayed prior to the Standby display. This screen is a default one but you can customize it by selecting any of the Pictures folder images

(see "Pictures", page 69).

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Display**.
- 3 Select **Welcome screen**.
- 4 Select **Default** to set the default image as standby screen for your Welcome screen or select **Pictures** (see "Pictures", page 69) to select one of the stored pictures .
- 5 Select **Save** to store your setting.

⚠ You can also set the Welcome screen from the Pictures menu (see "Setting a still or animated image as a standby display (for the Main screen or the External screen), as a Welcome screen or as a Goodbye screen from the Pictures folder", page 71).

Goodbye screen

Upon switching off your phone, a Goodbye screen is displayed. You can customize it by selecting any of the Pictures folder images (see "Pictures" on page 69).

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Display**.
- 3 Select **Goodbye screen**.
- 4 Select **Default** to set the default image as standby screen for your Goodbye screen or select **Pictures** (see "Pictures", page 69) to select one of the stored pictures.
- 5 Select **Save** to store your setting.

⚠ You can also set the Goodbye screen from the Pictures menu (see "Setting a still or animated image as a standby display (for the Main screen or the External screen), as a Welcome screen or as a Goodbye screen from the Pictures folder", page 71).

Backlight

To adjust the backlight for the Main or the External screens:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Display**.
- 3 Select **Backlight**.
- 4 Adjust the backlight for the Main screen or the External screen with the [Up] or [Down] arrow keys (select a value from 1 to 4) and select **OK**.
- 5 Select **Save** to store the setting.

Contrast

You can select the contrast level for the Main screen and for the External screen:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Display**.
- 3 Select **Contrast (Main)** or **Contrast (External)** according to the screen you want to adjust the contrast on.
- 4 Adjust the contrast with the [Up] or [Down] arrow keys (-3 to +3) and select **OK**.
- 5 Select **Save** to store the setting.

Light

You can activate or deactivate the light on the External screen (please see "Light status", page 11):

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Display**.
- 3 Select **Light (External)**.
- 4 Select **On** or **Off**.
- 5 Select **Save** to store the setting.

■ Keypad

Keypad lock

When the keypad lock is activated, this prevents the accidental operation of the keys. The key tones are muted.

The keypad lock is suspended when an incoming call is received and resumed once the call is

over. Emergency calls (112, 911 or other official emergency number) can however be made. If a key is pressed, a reminder message is displayed.

To activate and deactivate the keypad lock:

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Keypad**.
- 3 Select **Keypad lock**.
- 4 To unlock the keypad, press **Unlock** then .

or:

- ▶ 1 From the Standby display, press and hold  to activate the keypad lock.
- 2 Press and hold  to de-activate the keypad lock.

Any key answer

This feature allows you to answer a call by pressing any key (except from the Off, No ring and Side keys).

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Keypad**.
- 3 Select **Any key answer** and select **On**.

Softkey functions

This feature allows to change the right and left softkeys functions to get a shorten access to the feature you want.

Via the idle menu:

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Keypad**
- 3 Select **Softkeys functions** and select **left softkey** or **right softkey**.
- 4 The list of functions is displayed. Scroll up or down to the required function and press **OK**.

Via the standby screen:

- ▶ 1 Press and hold the left softkey or the right softkey.
- 2 The list of functions is displayed. Scroll up or down to the required function and press **OK**.

Speed dial

Phone book numbers can be assigned to keys  to . The  key cannot be assigned to a Phone book number as it is already assigned by default to the Voice Mail number (see "Calling the voice mail centre to check your messages", page 29).

Numbers stored in both the SIM card and the phone (except fixed dialling numbers) can be selected.

To assign Phone book numbers to the speed dialling keys:

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Keypad**.
- 3 Select **Speed dial**.
- 4 The Key number and the attached name (if any) are displayed. Select **Names** (or **Options** then **Names** if a number has already been attached to the key) to select a name from the names list.
- 5 Select **OK** to validate.



If a number which has been assigned to a speed dial key is deleted from the Phone book, the corresponding number is automatically deleted from the speed dial key.

■ Phone settings

Language selection

You can change the language on your phone:

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Phone settings**.
- 3 Select **Language**.
- 4 Select a language from the list displayed and press **OK** to validate.

Edit mode

You can change the Edition mode on your phone:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Phone settings**.
- 3 Select **Edit mode**.
- 4 Select Multilingual or Standard.

Auto features

Auto-answer

This feature is only operational when the phone is connected to a headset or a car kit. The phone answers the call automatically after about 5 seconds.

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Phone settings**.
- 3 Select **Auto features**.
- 4 Select **Auto-answer** and select **On**.
- 5 Select **Save** to store your setting.

 This feature is inhibited if the silent mode is activated or if the ringtone is set to 0.

Auto-retry

This feature allows the phone to redial a number automatically if call has failed due to an engaged line or an unavailable signal from the network. The number will be re-dialled a maximum of 10 times until connection is established.

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Phone settings**.
- 3 Select **Auto features**.
- 4 Select **Auto-retry** and select **On**.
- 5 Select **Save** to store your setting.

When activated, **Retrying** and a countdown timer are displayed prior to each new attempt. An auto-retry warning tone beeps each time a new call attempt is made.

Selecting **Exit** or pressing any key during the retry process cancels the operation.

Auto-switch-on/off

This feature allows the phone to switch on or off automatically at a pre-determined time.

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Phone settings**.
- 3 Select **Auto features**.
- 4 Select **Auto-switch-on** or **Auto-switch-off** and select **On** to activate the feature.
- 5 Enter the time you want your phone to switch on and/or to switch off and press **OK**.
- 6 Select **Save** to store your setting.

If the phone is already on at automatic switch-on time, it remains on.

When the phone is about to automatically switch off, a warning message and a countdown timer are displayed. Selecting **Exit** cancels the switch off process.

If the phone is already off at switch-off time, it remains off.

 If a call is in progress at switch-off time, the switch-off process is postponed until the call has ended.

Caution - Remember to turn off the Auto switch-on feature when boarding an aircraft. See "General safety", page 6.

Active flip

This feature allows you to answer/end a call automatically on opening/closing the phone.

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Phone settings**.
- 3 Select **Auto features**.
- 4 Select **Active flip** and select **On** to activate the feature.
- 5 Select **Save** to store your setting.

Time & date

This feature allows you to set the phone time according to the world time zone map, based on Greenwich Mean Time (Origin clock). A Secondary clock is also available.

This feature is useful for the Diary. To import or export calendar cards, events and tasks, schedules must be set according to Time zones.

Both clocks are displayed on the same screen. The date and time and the city name are displayed for both clocks.

Clock setting

To set the clocks:



- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Phone settings**.
- 3 Select **Time & date**.
- 4 Select the **Origin clock** or select **Options**, then choose **Edit origin**. Scroll through the panels and fill in the required information.
- 5 Select **Save** to store the data.
- 6 Select the **Secondary clock** or select **Options**, then choose **Edit secondary**. Scroll through the panels and enter the required information.
- 7 Select **Save** to store the data.

Select Options to get to the following features:

OPTIONS	ACTION
Edit origin	To edit the origin clock panel in order to modify its contents.
Edit secondary	To edit the secondary clock panel in order to modify its contents.
Swap clocks	To swap the Origin clock and the Secondary clock. This feature is useful when travelling: the secondary clock becomes the origin/mobile clock and the origin clock becomes the secondary one.
Time format	To select a time format (12Hrs or 24Hrs).

Default settings

You can reset your phone and return to your phone default settings via the **Settings** menu. This has no effect on the Phone book entries or the phone lock code.

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Phone settings**.
- 3 Select **Default settings**.
- 4 Select **Yes** (The «Set default ?» message is displayed)

■ Connection manager

The Connection manager service manages and centralises circuit and packet connection profiles (see "Wap™", page 88) for online applications.

Connection profiles

Viewing a profile

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Connection manager**.
- 3 Select **Connection profiles**.
- 4 Scroll down to the required profile. Press **OK** or **Option** and **View** to display the profile.

 The Option menu allows to View and Delete the profile.

Creating a connection profile

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Connection manager**.
- 3 Select **Connection profiles**.
- 4 Choose an empty profile ([...]) and select **OK**.
- 5 Choose **GPRS connection** or **GSM connection** and select **OK**.

- 6 Fill in the requested information (contact your service provider to get all necessary parameters) and select **Save** to store the entered data.

Operation mode

This network dependent setting allows phone operations to be either **Standard** or **Modem** type.

Standard mode

The phone tries to reach a GPRS networks. If the phone succeeds attaching a GPRS network,  is displayed on standby mode. The phone can then send and receive voice calls and packet data calls.

To set the mode of operations to Standard:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Connection manager**.
- 3 Select **Operation mode**.
- 4 Select **Standard**.

Modem mode

The phone tries to reach a GPRS network. It can only send and receive GPRS data calls; voice calls are then barred. This behaviour is the same whatever the network capabilities.

However if the GPRS services are lost, the phone automatically returns to the Standard operation mode.

To set the operation mode to Modem:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Connection manager**.
- 3 Select **Operation mode**.
- 4 Select **Modem**.

■ GSM services

Call diverting

This Network dependent service allows you to divert incoming calls (voice, fax or data calls) to another number

To divert a call:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select **Call diverting**. The following sub-menu is displayed (the contents of this menu may vary according to your service provider).

DIVERT OPTIONS	ACTION
Always	To divert all incoming voice calls.
When not reachable	To divert all voice calls when the phone cannot be reached (out of service).
On no reply	To divert all voice calls when the call is not answered.
When busy	To divert all voice calls when the line is engaged.
All conditions	To divert all voice calls when Not Reachable, No Reply and When Busy.
Cancel all	To cancel all diverting options.
All FAX calls	To divert incoming fax calls unconditionally.
All DATA calls	To divert incoming data calls unconditionally.

- 4 Select one of these options and select **OK**.
- 5 Select **Activate**.
- 6 Select **Voice Mail** (if you want the calls to be diverted to your voice mailbox), **Names** (select one of the Phone book entries) or **Number** (Enter the number to which the calls are to be diverted and select **OK**. A validation message containing the selected number is displayed).



1. If the 'On no reply' option is selected, please enter the time limit (5, 15 or 30 seconds; this also depends on your network) after which the feature will operate.
2. Call diverting must be set for both Line1 and Line2. Only the selected line is affected by the call divert.

To check the call divert status or deactivate it:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select the call diverting type to be checked or cancelled.
- 4 Select **Status** or **Cancel**.

To cancel all call divers,

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select **Call diverting**.
- 4 Select **Cancel all**.

- A** 1. This action cancels all call divers (voice, faxes and data calls) for the current line.
2. To cancel call divers for the other line, you must select this line first (menu Calls & Times - Line selection).

Call waiting

This network dependent feature allows you to receive a new call while a call is already in progress. To activate the call waiting feature:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select **Call waiting**.
- 4 Select **Activate**, **Activated** or **Check your request** is then displayed.

- A** You can also cancel or check the service status.

To put a call on hold and switch from Call 1 to Call 2:

- 1 Whilst a call is in progress, a beep sounds to indicate a second incoming call. Select **Replace** to take Call 2 and end Call 1, select **Reject** to refuse Call 2 or press the Call/[Send] key to put Call 1 on hold and take Call 2. Press the [End/Off] key to end Call 1 and press the [Call/Send] key to take Call 2.
- 2 Select **Options** then select **Swap** to get back to Call 1 and put Call 2 on hold.

When two calls are managed on the device the following Options menu is available:

OPTIONS	DESCRIPTION
Speaker On/Off	To activate/deactivate the hands free mode.
Auto-DTMF	To type a new phone number and add this new correspondent to the conference-call. If the Auto-DTMF option is deactivated, you cannot type in a new phone number.
Swap	To switch from Call 1 to Call 2.
Join	To set up a conference-call.
Mute/Unmute	To mute/unmute the microphone.
End held	To end the held call.
End active	To end the active call.
End all	To end both calls.
Record	To record the call up to 11min.

To set up a conference-call

You can set up a conference-call with up to 5 participants. This option is network/subscription dependent.

- 1 Whilst two calls are in progress and a new call is received, select **Options** then **Join** or press **3** then press the [Call/Send] key to set up the conference-call. Repeat the action each time a new call is received.

During the conference-call, the following Options menu is available:

OPTIONS	DESCRIPTION
Speaker On/Off	To activate/deactivate the hands free mode.
Auto-DTMF	To type a new phone number and add this new correspondent to the conference-call. If the Auto-DTMF option is deactivated, you cannot type in a new phone number.

Private with	To have a private conversation with one of the participants. During a private conversation, the conference-call is put on hold.
Hold	To put the conference-call on hold.
Retrieve	To retrieve the conference-call if it is put on hold.
Mute/Unmute	To mute/unmute the microphone.
End one	To end one call.
End all	To end the conference-call.
Record	To record the conference-call up to 11min.

 You can set up and receive a new call during the conference-call. In these cases the conference-call is put on hold.

In compliance with European regulations, you are obliged to inform your correspondents before recording a phone conversation.

To end a conference-call:

- ▶ **1** Press the [On/Off] key or select **Options** then **End all** to end the conference-call.

Sending my ID: status

You can disable the sending of your own number on a call by call basis by adding #31# before the number you are dialling. You can also ask your service operator to hide your mobile phone number by default. Once hidden by your operator, you can show your number, on a call by call basis, by entering *31# before the number you are calling.

To check the Sending my ID status:

- ▶ **1** Press the [Menu/T9] key. Select **Settings**.
- 2** Select **GSM Services**.
- 3** Select **Sending my ID**.
- 4** Select **Status**. The request is launched and an information message displays the Sending my ID status.

Please contact your service provider for more information.

Caller line identity - showing/hiding your mobile number (network dependent)

Most networks have Caller Line Identity feature (CLI). This feature allows the phone number or the identity of the caller to be displayed on incoming calls.

Standard network setting

To reset the standard network setting and send your mobile ID:

- ▶ **1** Press the [Menu/T9] key. Select **Settings**.
- 2** Select **GSM Services**.
- 3** Select **Sending my ID**.
- 4** Select **My settings**.
- 5** Select **Preset**. The phone resets and reverts to its original network setting.

Hiding or showing your number

- ▶ **1** Press the [Menu/T9] key. Select **Settings**.
- 2** Select **GSM Services**.
- 3** Select **Sending my ID**.
- 4** Select **My settings**.
- 5** Select **Hide my ID** or **Show my ID**.

Please contact your service provider for more information.

Receiving caller ID

Most networks have the Caller Line Identity feature (CLI). This feature allows the phone number or the identity of the caller to be displayed on incoming calls.

You can check the availability of this feature on your network or subscription.

- ▶ **1** Press the [Menu/T9] key. Select **Settings**.
- 2** Select **GSM Services**.

- 3 Select **Receiving caller ID**.
The network then either returns **Presentation available** or **Presentation unavailable** information.

Network automatic search

When the phone is on, it automatically searches the last network to which it was registered (usually the home network). If it is not available, the phone automatically searches and selects one of the networks registered in the preferred network list (located in the SIM card).

Editing the preferred list

Your phone contains a list of networks which can be selected (e.g.: to suit your travel arrangements). You can also transfer items from this list to the preferred networks list.

The order and names of the networks in the preferred networks list can be edited and amended.

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select **Network**.
- 4 Select **Preferred list**. A list of networks is displayed.
- 5 Use the up and down arrows to select the required network. Press **OK** to select one of the following Options if you want to amend the list:

OPTION	DESCRIPTION
Modify by list	To display the list of all networks stored in the phone.
Modify by code	To edit or enter the identification operator number if you have the information.
Delete	To delete an entry

Your SIM card may contain a forbidden list of networks which cannot be used. To view this or show your home network:

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select **Network**.
- 4 Select either **Forbidden** to view the list of forbidden networks, or select **Home network** to view the name of your usual network.

Selecting manual search

You may need to select a specific network (e.g. better coverage than your own in the current location).

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select **Network**.
- 4 Select **Search**.
- 5 Select **Manual**. The **Scanning for networks...** message is displayed.
- 6 Use the [Up] or [Down] arrow keys to select a network from the list.
- 7 Press **OK** to confirm your choice.
The **Requesting...** message is displayed, after which the phone will return to the standby display.



1. You cannot select a network for manual change if it is on the forbidden list (even if it is still listed as a choice).
2. You cannot delete a network from the forbidden list. This list is automatically updated when the manual network selection is performed.
3. If the Manual search has been selected before turning the phone off and if the manually selected network cannot be found when the phone is next turned on, you must select another network manually for your phone to lock on.

Selecting automatic search

To perform an automatic search from the preferred list, proceed as follows:

- ▶ 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select **Network**.
- 4 Select **Search**.
- 5 Select **Automatic**.

Call barring

This network dependent service forbids certain outgoing or incoming call types. It requires a call barring password.

To bar a call

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select **Call barring**.
- 4 Select **Outgoing calls** (to bar All outgoing calls, International calls or International calls excluding your Home network), **Incoming calls** (to bar All incoming calls or all incoming calls while Roaming only), **Cancel all** (to cancel all barring conditions) or **Change password**.
- 5 Select **Activate**. Enter the password and press **OK**.
The network then confirms the selection.

To remove call barring or check its status

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select **Call barring**.
- 4 Scroll up or down to select the barring type to be deactivated (Cancel) or checked and follow the instructions displayed.

Call barring password

The call barring password is used to select the call barring levels. It is supplied via your service provider.

To change the password:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **GSM Services**.
- 3 Select **Call barring**.
- 4 Select **Change password**.
First enter the former password then enter the new password twice. A Confirmation message is displayed.

Security features

The security features described in this section protect your phone from unauthorised use.

When prompted, enter the code and press **OK**. Codes are displayed as asterisks (*).

Press the [Clear] key if you need to amend your entry.



Avoid using codes similar to emergency numbers such as 112 to prevent the accidental dialling of these numbers.

KEEP A RECORD OF YOUR CODES IN A SECURED PLACE.

PIN code

Your SIM card was provided with a 4 to 8 digit PIN code for protection against unauthorised use. When enabled, the PIN code is required each time you turn your phone on. If an incorrect PIN code is entered three times in succession, your SIM card will be blocked. The 8 digit PUK code is then required to unblock your phone. Please contact your service provider for this code.

To activate the PIN protection:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Security**.
- 3 Select **PIN enable** (if the code has been disabled) or **PIN disable** (if the code has been enabled) and enter your **PIN code**.

To change the PIN code (PIN must first be enabled):

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Security**.
- 3 Select **PIN change** and follow the information displayed.
- 4 Press **OK** to validate your new PIN code.

PIN2 code

PIN2 code prevents unauthorised access to some of the phone features (e.g. activating/deac-

ivating FDN operations, modifying the FDN Phone book, setting calls costs to zero, modifying the costs display features). This code can be changed but not be activated or deactivated. Please contact your service provider for your PIN2 code. To change the PIN2 code:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Security**.
- 3 Select **PIN2 change** and follow the information displayed.
- 4 Press **OK** to validate your new PIN2 code.

Summary of code/password entry chart

PASSWORD	LENGTH	NUMBER OF ATTEMPTS ALLOWED	IF BLOCKED OR FORGOTTEN
PIN	4-8 digits	3	Unblock with PUK code
PIN2	4-8 digits	3	Unblock with PUK2 code
PUK	8 digits	10	Contact your service provider
PUK2	8 digits	10	Contact your service provider
Call barring password	4 digits	Defined by service provider	Contact your service provider

■ Certificates

Certificates are used for network security exchange.

There are two types of certificates: the user's certificate and the trusted certificate.

The user's certificate is sent by the phone to the contacted WAP™ service. It is a proof of the user's identity.

The trusted certificate is sent by the contacted WAP™ site to the phone. It guarantees the WAP™ site is authentic and you have the right certificate in your phone. If you do not have the right certificate the site identity cannot be checked (certificates can then be downloaded from a WAP™ page).

To display a certificate,

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Security**.
- 3 Select **Certificates**. Enter the 4 digit lock code (default code is **0000**) and press **OK**. The list of certificate subjects is displayed.

The detailed view is displayed and is made of:

- A header which informs about the certificate format and its storage location,
- The certificate subject,
- The certificate issuer,
- The certificate validity dates (start and end dates),
- The certificate fingerprint.

■ WIM manager

Using WIM (Wireless Identity Module) Manager allows secured access to paid services via the WAP™ features.

A special WIM card is required to use this feature (please contact your service provider for more information on the WIM card). It allows certificates (see definition above) and tickets to be provided to and from selling companies when undergoing a paid transaction.

To enter the WIM manager menu:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Security**.
- 3 Select **WIM Manager**.

Select one of the list items:

- WIM code (PIN code available on the WIM card to change, create or delete a file) change/unblock. If you enter 3 wrong WIM codes, 'WIM code blocked' is displayed. Contact your service provider to get the corresponding unblock code.
- Signature codes (list of the different signature codes). These codes depend on the service you wish to use (contact your service provider for more information on the signature codes).

- Tickets. A ticket is a document emitted on purchasing as a proof of the transaction (receipt). 5 tickets can be stored in the phone memory (they are then deleted one after another).

To go over a transaction and use the security WIM system:

- 1 From the WAP™ page, when getting to a paid service, press **OK**.
- 2 A sum-up of the transaction is shown on the following page. Press **OK** to validate.
- 3 Enter the requested signature code (4 to 8 digits). A sum-up of the whole transaction (the **Ticket detail** page) is then displayed and shows the transaction **Date**, **Clear Text** and **Information**.
- 4 Press **OK** to validate and save the ticket.

 Tickets are tracks of transactions as they are emitted by the phone and not by the selling company. They cannot be used as a proof in case of legal problem.

To view tickets:

- 1 Press the [Menu/T9] key. Select **Settings**.
- 2 Select **Security**.
- 3 Select **WIM Manager**.
- 4 Select **Tickets**.
- 5 The list of available tickets is displayed: choose one and select **OK** to view its contents.

■ Privacy

A lock code can be used to activate the Phone lock code at phone switch On or to forbid the access to the Privacy menu and to the following features: Mail Inbox, Outbox and Draft folders, MMS Inbox, Outbox and Draft folders, SMS Inbox, Outbox, Draft and SIM archive folders, Pictures, Videos and Speech notes folders.

The default lock code is 0000 (this code can be changed).

To lock a feature

- 1 Press the [Menu/T9] key. Select **Settings** then **Privacy**. Enter the lock code.
- 2 Select the required feature(s) and select **On** in each of them to activate the lock code protection.
- 3 Select **Save** to store your settings.
The lock code is required when next time you switch on your phone and when entering any of the selected feature.

To unlock a feature

- 1 Press the [Menu/T9] key. Select **Settings** then **Privacy**. Enter the lock code.
- 2 Select the required feature(s) and select **Off** in each of them to deactivate the lock code protection.
- 3 Select **Save** to store your settings.
You will not be prompted for lock code when you access these features.

To change the lock code

- 1 Press the [Menu/T9] key. Select **Settings** then **Privacy**. Enter the lock code.
- 2 Select **Lock code change** and follow the displayed instructions.
- 3 Select **Save** to store the new lock code.

■ miniSD™ Card

Please see "How to configure your miniSD™ Card", page 86.

Glossary

EXPRESSION	MEANING
AC/DC charger	Alternating Current/Direct Current charger
Active call	The call currently in progress
ALS	Alternate Line (Line 2) Service
AoC	Advise of Charge - subscription service
CB	Cell Broadcast
CLI	Caller Line Identity - displays caller's telephone number
DES	Data Encryption Standard
Diverting	Diverts incoming calls to the phone to another number
DTC	Desk Top Charger
DTMF	Dual Tone Multifrequency Tones
FDN	Fixed Dialling Number
GSM	Global System for Mobile communications
http	Hyper Text Transfer Protocol
IN	Information Numbers of your operator
IP	Internet Protocol
LCD	Liquid Crystal Display
MMI	Man Machine Interface
MMS	Multimedia Messaging Service
PIN/PIN2	Personal Identification Number. Supplied by your network/service provider
PPP	Point to Point Protocol
PUK/PUK2	PIN Unblocking Key. Used to unlock PIN and PIN2. Supplied by your network/service provider
QQVGA	Quarter Quarter Video Graphics Array
Roaming (Rm)	The ability to use your telephone on networks other than your home network.
SDN	Service Dialling Number of your operator or service provider
SIM	Subscriber Identity Module. Supplied by your network/service provider
SMS	Short Message Service
SPN	Service Provider Name
SR	Status Report - relates to SMS messages
Standby mode	When the phone is on but not receiving/making a call or menu navigating.
URL	Uniform Resource Locator
VGA	Video Graphics Array

■ Troubleshooting

PROBLEM	POSSIBLE CAUSE AND SOLUTION
Phone does not switch on	Check that the battery is fully charged and correctly connected to the phone.
No flashing battery icon whilst charging	There may be no mains supply. Try a different electrical socket. The AC/DC charger may be faulty. Return to your dealer and try substitution with another Mitsubishi Electric adaptor. If faulty, contact your dealer.
Short standby and talk times	Cell broadcast is permanently on, using more battery power. Phone is in a poor signal area and therefore always on full power. Incorrect charging and discharging. Always charge and discharge your battery fully. The battery is wearing out. Replace the battery.
Impossible to dial numbers	Keypad lock is on (🔒 appears). Press Unlock and (📞) to turn the keypad lock off.
Impossible to make or receive a call	Check that at least one signal strength bar (📶) is displayed. Try a stronger signal strength area. If no network name is displayed, check registration and area coverage with your service/network provider and check that the SIM is correctly inserted. Call barring option is on. Deactivate it (see page 106). Call cost limit is reached (see page 44).
Stored telephone numbers cannot be recalled	Fixed Dialed Number or Call Barring features are activated. Deactivate feature. (see page 106).
The mobile is on but nothing is displayed.	Display contrast is too low. Reset contrast (see page 98).
Battery icon (🔋) not flashing 1-2-3-4-5 during charging	May indicate a charge or battery problem. Disconnect the charger. Reconnect and try again. May also indicate that the battery is fully recharged and does not require any further charging.
No charge symbol when connecting the charger	If the battery is totally empty the battery level symbol may not be displayed at once when connecting the battery charger. Moreover the phone cannot be turned on. Up to 15 minutes may be necessary to reach the required 4% battery charge to turn your phone on and allow the battery charge symbol to be displayed.
Flashing ↴	There is not enough memory to store another SMS message. Delete one or more of the existing stored messages.

■ Error messages

PROBLEM	POSSIBLE CAUSE AND SOLUTION
Allowed credit reached!	You are trying to place an outgoing call and the allowed credit is already reached. The allowed credit limit is reached during an outgoing call (the call is then aborted).
An internal error has occurred	An error occurred in a game execution.
Busy	You are trying to make a call and the call fails because the destination number is already engaged in conversation.
Call failed	The user is unreachable. the network is busy or the number is out of order or the number is invalid number or the network does not answer or the option to hide your phone number when calling is not supported by the network Control the ability to hide your ID when making a call (service availability in network).
Cancelled. No type selected	Cell broadcast activation has been requested but no message type has been selected.
Cannot execute command	You have made a request which is impossible to execute in the current call situation.
Can't display message	The short message text cannot be displayed (characters not recognised, incorrect format etc.)
Charge error	A problem occurred during mobile battery charge process.
Check battery!	A battery problem has been detected.
Check SIM!	There is no SIM present or the SIM is incorrectly inserted.
Check your password	You changed the call barring password or You changed the call barring service status. The entered password seems to be wrong or incorrect.
Check your request	You made a request for a service that seems to be unavailable.
Check your subscription	You tried to activate a GSM service. You are requested to check your subscription regarding the related service rights of use/access.
Connection failed	Connection with the server cannot be established for one of the following reasons: The server is busy. Try to connect later. The server is down. Try to connect later. The network is not reachable. Check the GPRS service icon is displayed in standby mode.
Connection failure	The connection data failed.
Error!	The network cannot perform your request and generates an error.
Failed	An SMS sending process failed (the short message cannot be sent).
File protected	The file cannot be exported (copyright).
File too big	The file dimensions (pixels) and/or weight (KB) are not adapted to your phone. Resize the file (The maximum allowed file size depends on your service provider).
Incorrect entry	You entered a character string with a syntax error.
Invalid data received	The received file bears invalid information or the melody format cannot be recognised by the phone.
Invalid number	You tried to make a call and the call is rejected by the network because the network does not recognise the phone number structure. You tried to store a phone number that is too long to be stored in the selected location. You tried to move a phone entry to a location that is unable to receive the phone number (phone number too long).

Low battery!	The battery is low and the phone will soon be switched off automatically.
Network busy	You tried to make a call. The call is rejected by the network due to congestion problems.
Network not allowed	When selecting network manual search, you have selected a network that rejects the connection.
New PIN2 incorrect. Try again	Changing PIN2: the new PIN2 code values differ (value control).
New PIN incorrect. Try again	Changing PIN: the new PIN code values differ (value control).
No connection	No connection is defined in the connection profile.
No match!	No matching pattern has been found between the pronounced sentence and the recorded sentences from the voice dialling database.
No response	You made a call to a remote user and no response has been received.
Not allowed	Your number/character entry is not allowed.
Not allowed fixed dialling	A call is tried, but cancelled due to fixed dialling control (the number dialled does not match with one of the fixed dialling numbers in memory).
Not enough place in the phone memory	The corresponding memory is full.
Not enough place in the SIM memory	
Number changed	The called number has changed.
Page has no content	Your request was accepted by the network but the required server page is empty.
Phone permanently blocked	A wrong PUK code has been entered 10 times. The phone is now permanently blocked.
PIN blocked	A wrong PIN code has been entered 3 times.
PIN2 blocked	A wrong PIN2 code has been entered 3 times.
PUK2 blocked	A wrong PUK2 code has been entered 10 times. The SIM services protected by the PIN2 code have now been permanently disabled.
Reaching allowed credit!	The cost limit is about to be reached. The connected call ends automatically when the limit is reached.
Ring volume Off	The ring volume is set to 0 (no volume).
Service not available	Activating some GSM services that are not available on the network
SIM blocked. Contact provider	A wrong PUK has been entered 10 times. The SIM card has been permanently disabled and needs to be replaced by a new one.
SIM names Phone book full	The corresponding memory is full.
Phone names Phone book full	
Undeletable file	The file cannot be deleted (copyright protected).
Wrong code. Try again	A wrong phone lock code has been entered.
Wrong new code. Try again	The new phone lock codes do not match (value control).
Wrong PIN, try again	The wrong code has been entered.
Wrong PIN2, try again	
Wrong PUK, try again	
Wrong PUK2, try again	
Wrong SIM inserted: phone locked	A SIM card, different from the SIM to which the phone is usually locked, has been inserted in the phone.
Invalid SIM	
Not enough space	The corresponding memory is full or nearly full..
Too many applications	The number of applications in the phone has already reached the maximum (50).

■ Guarantee

PAN EUROPEAN SERVICE

Should you experience any difficulty, please contact your nearest Mitsubishi Electric representative in the list below for information on service centres.

UNITED KINGDOM Tel: (0800) 912 00 20	BELGIUM Tel: (0800) 75733	SPAIN Tel: (902) 11 68 58	GERMANY Tel: (01803) 33 71 84
FRANCE Tel: (0825) 86 82 83	LUXEMBURG Tel: (800) 23552	ITALY Tel: (800) 79 10 29	NETHERLANDS Tel: (0800) 0223 825
	PORTUGAL Tel: (0800) 880264	IRELAND Tel: (1850) 200 240	GREECE Tel: (800) 4413 1247

Important: to obtain the Mitsubishi Electric warranty service, the original purchase invoice from the dealer is required.

PAN-EUROPEAN END-USER GUARANTEE CONDITIONS

1. Melco Mobile Communications Europe S.A. (MMCE) guarantees that for a period of twelve (12) months from the date of purchase from the dealer, the product shall be free from defects in materials and workmanship. If the statutory warranty in force in your country exceeds 12 months, the statutory warranty is not affected by this manufacturer's guarantee. This guarantee also covers batteries for a period of twelve (12) months from the date of purchase from the dealer. Subject to the conditions below, MMCE will indemnify you for the cost of all parts and labour for repairs, or the replacement of the product or parts (which may include equipment of similar type) where conducted by an approved Mitsubishi Electric service centre. MMCE shall be entitled to retain any product that has been replaced.

2. All claims must be made to an approved Mitsubishi Electric service centre. You can contact the Mitsubishi Electric representatives listed above to obtain details of your nearest approved Mitsubishi Electric service centre. As a condition of this guarantee, the date of the purchase must be confirmed by producing the original invoice from the dealer. The final determination of guarantee claim eligibility shall be made by MMCE.

3. This guarantee does not cover:

- a) non-compliance with directions for use;
- b) installation or removal charges where the product is installed in a vehicle;
- c) defects or failures caused by accident, misuse, improper installation or improper repair by a non-approved repairer, alteration or modification, neglect, failure to use the phone for normal purposes, Acts of God, exposure to water, use in adverse environmental conditions (humidity or temperature);
- d) cost of or performance of any modifications to the product to adapt or adjust it to conform to national or local safety laws, where such safety laws go beyond agreed European Union standards;
- e) loss of use of the product or consequential loss of any nature;
- f) loss of use of air-time, loss of use of any loaned equipment or ancillary equipment;
- g) provision of incorrect or insufficient signal on air-time network, upgrading of product software to changes in network operating parameters, main supply voltage fluctuations, incorrect SIM card (miniSD™ Card) parameters for connection to airtime retailer;
- h) damage caused by non-Mitsubishi Electric accessories.

4. Any guarantee claim or service does not extend the original guarantee period unless so required by prevailing national law.

5. This guarantee is valid only if the product is purchased and used in the European Union, Norway, Iceland or Switzerland.

THIS GUARANTEE DOES NOT AFFECT YOUR STATUTORY RIGHTS.

MELCO MOBILE COMMUNICATIONS EUROPE S.A.

5, rue de la Chataigneraie
35510 Cesson Sévigné
France
www.mitsubishi-telecom.com

Writing	33	Receiving caller ID	102	Storing a video	64, 67
Mobile number		Recorded call	43	Storing names	44
Hiding	102	Recording a video	61, 63		
Showing	102	Rejecting a call	13	T	
Modem	20	Reminder - call duration	42	T9	25
Multimedia messages	31	Ring	94	T9 text entry	25
Multipress text entry	4	Ring tone	94	Text edition	
Multitap text entry	24	Stop	13	i-mode icons	25
My card	50			Insert	25
My number	50	S		Special characters	25
My picture	96	Safety information	6	Text models	25
		Disposing of waste packaging	9	Text entry	
N		Emergency calls	8	Multipress mode	24
Network	103	Security codes	8	Multitap mode	24
Network serv.	87	Vehicle safety	8	T9 mode	24
		Your responsibility	8	Text model	
O		SAR	5	Editing	27
Online connection		Saving MMS content	31	Text writing	23
Bookmarks	90	Scenery shots	62	Ticket	106
Ending	89	Screen	95	Tones	94
Personalizing	90	External screen	9, 13, 95	Tools	15
Personalizing	90	Goodbye screen	96	Alarm clocks	19
Personalizing	90	Main screen	9, 14, 97	Calculator	18
Personalizing	90	Welcome screen	97	Currency converter	18
Personalizing	90	Security	104, 106	Diary	105
Personalizing	90	Codes	8	Infrared port	19
Personalizing	90	Features	104	Turning the phone off	14
Personalizing	90	Self timer	52, 56, 61, 65	Turning the phone on	12
Personalizing	90	Self-filming	66, 67		
Personalizing	90	Sending a video	64	V	
Personalizing	90	Sending an event/task	17	vCalendar	
Personalizing	90	Sending my ID	102	Sending	83
Personalizing	90	Setting an image		Storing	82
Personalizing	90	External screen	71	vCard	
Personalizing	90	Goodbye screen	71	Sending	83
Personalizing	90	Idle screen	71	Storing	82
Personalizing	90	Main screen	71	Vehicle safety	6
Personalizing	90	Welcome screen	71	Vibrate	94
Personalizing	90	Settings		& ring	94
Personalizing	90	Active flip	98	Then ring	94
Personalizing	90	Any key answer	97	Video	61, 73
Personalizing	90	Auto features	98	Adjusting the preview	64, 67
Personalizing	90	Backlight	96	Application	61, 67
Personalizing	90	Broadcast	99	Brightness	64
Personalizing	90	Connection manager	99	Compact light	61, 65
Personalizing	90	Contrast	96	Display	61
Personalizing	90	Default settings	99	Duration	61, 62
Personalizing	90	External screen	95	Erasing	64, 67
Personalizing	90	GSM Services	100	Features	62
Personalizing	90	Idle screen	95	Full screen option	68
Personalizing	90	Keypad	97	Holding your mobile	68
Personalizing	90	Language selection	95	Icons	61, 62
Personalizing	90	Main screen	95	Image Size	64
Personalizing	90	My picture	96	Loop mode	62
Personalizing	90	Phone settings	97, 98	Macro switch setting	65
Personalizing	90	Security	104, 105	Microphone	61, 65
Personalizing	90	Security features	104	miniSD™ Card	61, 75, 85
Personalizing	90	Softkey functions	97	Pausing	61, 62, 64, 67
Personalizing	90	Time and date	94, 95	Playback	62, 68, 74
Personalizing	90	Tones	94, 95	Player	62
Personalizing	90	Voice Mail	30	Quality	61, 64
Personalizing	90	Wap™	88	Receiving	75
Personalizing	90	Welcome screen	96	Recorder	61, 63
Personalizing	90	Shortcuts	57, 66	Recording	63
Personalizing	90	Show costs	93	Resolution	61
Personalizing	90	Silent	44	Scenery shots	62
Personalizing	90	SIM card		Self timer	66, 67
Personalizing	90	Update	45	Self-filming	66, 67
Personalizing	90	SMS messages		Sending	64
Personalizing	90	Draft	28	Shortcuts	66
Personalizing	90	Forward	22	Size	61
Personalizing	90	Insert	25	Size limit	65
Personalizing	90	Move to SIM	21	Sound level	62
Personalizing	90	Reading	21	Stopping	61, 62
Personalizing	90	Sending	21	Storage memory	65
Personalizing	90	Writing	23	Stored	73
Personalizing	90	Softkeys functions	97	Storing	64, 67
Personalizing	90	Solutions	108, 109	Weight	61
Personalizing	90	Sound level	62	Zoom	61, 64
Personalizing	90	Special characters	25	Video player	64
Personalizing	90	Speech notes	77	Viewing an image	69, 79
Personalizing	90	miniSD™ Card	76	Viewing ticks	106
Personalizing	90	Record new	77	Voice dialling	
Personalizing	90	Speed dial	13	Creating a voice pattern	48
Personalizing	90	Standby display	13	Making a call	48
Personalizing	90	And Welcome screen animation	69	Voice Mail	
Personalizing	90	Stopping a video	61, 62	Activating	29
Personalizing	90	Storage used	18, 83	Alert	29
P					
Pausing a video	61, 62, 64, 67				
Phone card					
Update	44				
Phone lock	104				
Code	8, 104				
Phone names card	44				
Phone numbers					
Storing	44				
Phone settings	94				
Phonebook	44				
Add name	44, 45, 46, 47				
Calling numbers	48				
Copy	45				
Copy all	46				
Deleting images	46				
Export	51				
Fixed dialling	50				
Folder selection	48				
Free space	49				
Group	49				
My numbers	48				
Read	48				
SIM names card	44				
Sorting	48				
Storage used	49				
Storing a received number	45				
Storing names	44				
Storing phone numbers	44				
Viewing & calling	48				
Voice dialling	48, 49				
Phonebook card					
Image	44				
Picture	71				
Album	69, 79				
Album 2	69				
Browser	69				
Erasing	54, 58				
miniSD™ Card	51				
Quality	55				
Size	54				
Storing	54, 58				
Taking	54				
Viewer	69				
Viewing	56, 60				
Pictures					
Album	79				
Size	52				
Pictures list	44				
Pictures viewer options	70				
PIN code	8, 104				
PIN2 code	8, 104				
Playing a video	62, 68, 74				
Power saver†	14				
PUK code	8				
PUK2 code	8, 105				
Push messages					
Receiving	91				
R					
Receiving a video	75				

Alert tone	29
Call	29
Deactivating	29
Number	29
Volume	
Alarm	94
Conversation	94
Key tones	94
Ring	94
Volume adjustments	94
W	
Wap™	88
Bango address	91
Bookmarks	90
Go to site	91
Home page	89
IP address	88
New address	91
Personalising	90
Preferred bearer	90
Profile details	88
Profiles	88
Saved pages	91
Settings	88, 90, 92
Site history	91
Wap profiles	90
Welcome screen	69
WIM card	105
WIM Manager	106
Writing text	
Edition mode	23
Z	
Zoom	52, 55, 61, 64

DECLARATION OF CONFORMITY

Product : GSM Triband 900/1800/1900 handheld Mobile Station
Model Type : Mitsubishi M900 Type VGH08A

We,

MELCO Mobile Communications Europe

5, rue de la Chataigneraié
CS 37618
35576 Cesson Sévigné
FRANCE

declare under our sole responsibility that the product aforementioned is conform to the following applicable essential requirements of the directive 1999/5/EC:

Article 3.1 a) (health protection and user safety)

73/23/CEE, 1999/519/EC, Cenelec EN 50360, EN 60950

Article 3.1 b) (protection requirements concerning electromagnetic compatibility)

89/336/CEE, EN 301 489-1, EN 301 489-7

Article 3.2 (proper use of the radio-electric spectrum so as to avoid damaging interference)

EN 301 511

To this effect, all essential radio test suites have been carried out.

Spetember 27th, 2004



Franck MARTI
Vice-President



Recycled Paper

A10866C026A02