



## Organizer



This menu allows you to access the various accessories offered by your phone: calculator, converter, alarm, timer.



### Calculator

This menu allows you to use your phone as a calculator.

On the **Organiser** menu, please select the **Calculator** menu and **Select**.  
You can use the calculator thanks to the following keys:

- ▲ Up key: Add
- ▼ Down key: Subtract
- Right key: Multiply
- ◀ Left key: Divide

- ⌚ Right programmable key: Equals
- ⌫ Left programmable key: Delete

\* key or #: Decimal point. \*

If no calculations are being run, the ⌚ key allows you to use the value in the converter directly.

# Organizer



## Converter

This menu allows you to convert one currency to another.



On the **Organiser** menu, please select the **Converter** menu and **Select**.

Enter a value and press the **▲** key to convert from one currency to another, or the **▼** key to convert back.

The key allows you to use the following options:

### Rapid exchange

If the Rapid exchange is activated, the converter will work in the initial screen by entering the desired numbers and pressing the **▼ ▲** keys to convert.

### Exchange rate

Enter the exchange rate corresponding to the chosen currency.

### Currency

Enter the two types of currency to be converted.

### Go to calculator

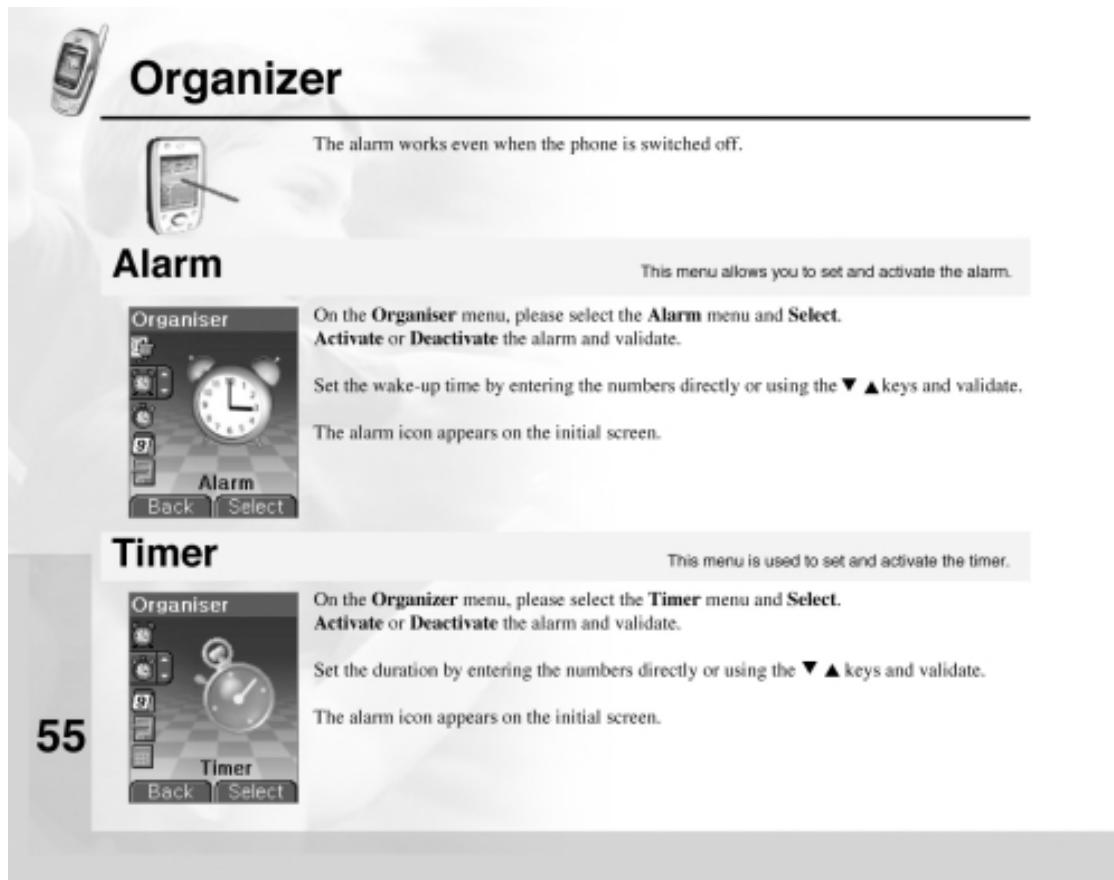
This option allows you to use immediately the value converted in the calculator.



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**Organizer**

The alarm works even when the phone is switched off.

**Alarm**

This menu allows you to set and activate the alarm.

On the **Organiser** menu, please select the **Alarm** menu and **Select**.  
**Activate** or **Deactivate** the alarm and validate.

Set the wake-up time by entering the numbers directly or using the **▼ ▲** keys and validate.

The alarm icon appears on the initial screen.

**Organiser**

Back Select

**Timer**

This menu is used to set and activate the timer.

On the **Organizer** menu, please select the **Timer** menu and **Select**.  
**Activate** or **Deactivate** the alarm and validate.

Set the duration by entering the numbers directly or using the **▼ ▲** keys and validate.

The alarm icon appears on the initial screen.

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# Settings

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This menu allows you to set your phone.



## Sounds

This menu allows you to customize the ring tones on your phone and to activate beep and vibrate modes.

### Volume and ring tone



This menu allows you to allocate a ring tone to each type of event. On the **Sounds** menu, please select the **Ring tones** menu and **Select**. Select one of the events given: Alarm, Calls, Messages, Local Infos and Fax and validate. Select the **ring tone** from the proposed list and validate. Adjust the **volume** using the **▼ ▲** keys and validate.

You can deactivate the sound by pressing the **\*** **key**.

Voice Calls: the ring tone selected here will be played only when receiving a call from a contact stored without any call group. Otherwise, the ring tone selected for this call group will be played.

### Vibrate



This menu allows you to activate the vibrate mode for calls.

On the **Sounds** menu, please select the **Vibrate** menu and **Select**.

Select the vibrate mode from the proposed choices (ring tone and vibrate, vibrate only, vibrate inactive or vibrate plus ring tone) and validate.

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Warning: vibrate mode is not a priority regarding the ring tone selected on the call group. To make vibrate mode apply in general, switch to Silent mode.



## Silent mode



This menu allows you to switch to Silent mode.

On the **Sounds** menu, please select **Silent mode** and **Select**.

Activate or deactivate Silent mode and validate.  
Silent mode can also be accessed via the initial screen by holding down the **\* #** key.

*When the phone is in silent mode, the relevant icon appears on the initial screen.  
In this mode, the ring tone will not function, except for the alarm clock.*

## Beeps



This menu allows you to activate a beep for each type of event.

On the **Sounds** menu, please select the **Beeps** menu and **Select**.

Select the type of beep you want to allocate from the proposed choices (Key beep, Network beep or Battery beep) and validate. Activate or deactivate the beep and validate.

If you select key beeps, different options are given.

# Settings

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## Recorder



*These menu allows you to record your own melody.*

On the **Sounds** menu, please select the **Recorder** menu and **Record**. Record your melody or your voice by means of the microphone then save it. Give it a name and validate. The new melody is saved in the ring tone list.

## Display

*This menu allows you to customize your screen by choosing a different presentation.*



*This menu allows you to choose the skin of your phone, i.e. define its look (text font, colors, default animation, background image...).*

On the **Display** menu, please select **Skins**.

Select the desired skin and validate.

Skins are not downloadable but you can download screensavers and boot mode animations without changing those included by default with the skin.

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# Settings

## Wallpapers

**Display** *This menu allows you to display the background picture you want on your phone.*

On the **Display** menu, please select the **Wallpapers** menu and **Select**.

Select the Wallpaper and **Visualise**. The picture appears in the background of the screen. Press the key to validate this choice, or the key to go back to choice.

**Wallpapers**  
Back Select

## Screensavers

**Display** *This menu allows you to display an animation when the phone is in standby mode.*

On the **Display** menu, please select the **Screensavers** menu and **Select**.

Select one of the screensavers given and **Visualise**.

The chosen screensaver appears on the screen, validate it.

Adjust the screensaver display time (more than 61 seconds) and validate. The screensaver comes on the screen each time the display time that has been selected runs off.

**Screensavers**  
Back Select

# Settings

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## Camera

This menu allows you to set the camera feature of your phone.



On the **Settings** menu, please select the **Camera** menu and **Select**.  
Do the settings with the three menus below.

### Timer

This menu allows you to set the delay of the timer used when taking a photo.

### Click sound

This menu allows you to select the sound you will hear when taking a photo.

### Format

This menu allows you to choose the format in which your photo will be saved. There

are several options:

- either you systematically set the photo format to one of the following:

**High resolution or Mobile format,**

- or you can choose the photo format on a case-by-case basis.

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**Settings**

**Languages**

This menu allows you to choose your phone's display language.

On the Settings menu, please select the **Languages** menu and **Select**.

Select your language and validate.

If you select **Automatic**, the language used will be the one relative to your SIM card.

**Calls**

The **Calls** menu allows you to manage and check all the calls made or received  
( outgoing and incoming).

# Settings

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## Calls forwarded



*Depending on your subscription, this service allows you to forward incoming calls to a different number or to the voice mailbox.*

On the **Calls** menu, please select the **Calls forwarded** menu and **Select**. Choose the type of forwarding you want from the options available.

## View last calls



*This menu allows you to access the list of last numbers used.*

On the **Calls** menu, please select the **View last calls** menu and **Select**.

For every phone call are displayed on the screen:

- its characteristics (shown with an icon),
- the time (or date),
- its duration.

Select a call from the list and validate.

Select one of the options given: Call, Store in your phonebook, Send a message, Delete, Delete all.

You can also make the call by pressing the key.

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**Settings**

*Fast access to the list of calls from the initial screen: press the key.*



**Counters**

**Calls**

*This menu allows you to consult the duration of the up calls.*

It can also be used to check the volume of data exchanged in GPRS.  
On the **Calls** menu, please select the **Counters** menu and **Select**.  
Select one of the options given.

**Display number**

**Calls**

*This menu allows you to modify the status of the display number function.*

On the **Calls** menu, please select the **Display number** menu and **Select**.  
Select one of the options given: Anonymous mode, My number, Callers' number.

**Anonymous mode**  
You have the facility to mask your number on the phone of the person you are calling.  
Preset: network default mode.  
No: you choose not to activate anonymous mode and then to display your number.  
Yes: you choose to activate anonymous mode and then not to display your number.

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# Settings

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## Call waiting



(Operator-dependent service)

On the **Calls** menu, please select the **Call waiting** menu and **Select**. You can **activate**, **deactivate**, or **consult the status** of the call waiting service in order to check if it is active or not. During a call, if a second caller tries to contact you, the screen displays the call warning.

## Automatic redial



This menu allows you to call back a caller you have not managed to reach.

On the **Calls** menu, please select the **Automatic redial** menu and **Select**. You can set the redial function to **inactive**, **on request** or **systematic**. If you choose **On demand**, your phone will offer to redial your caller automatically if his number is busy.

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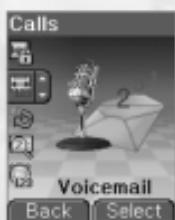
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## Settings



### Voicemail



*This function is used to record your answer phone number.*

This number will be used during a call to the voice mailbox using the programmable keys.  
On the **Calls** menu, please select the **Voicemail** menu and **Select**.  
Enter your answer phone number and validate.

# Settings

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## Security

This menu allows you to configure your phone's security settings.

### Keypad locking



*This menu allows you to lock the keypad to avoid unwanted key presses.*

On the **Security** menu, please select the **Keypad locking** menu and **Select**.  
Select **Activate** or **deactivate** and validate.

⌚ The lock icon appears on the initial screen.

*This function is also available in the initial screen pressing the \* and # keys.*

### PIN number



*This menu allows you to activate and modify your phone's PIN.*

On the **Security** menu, please select the **PIN number** menu and **Select**.  
To modify the PIN, select **Modify** and **Select**.  
Enter old PIN and validate.  
Enter new PIN twice and validate.  
To activate or deactivate the PIN, select the **Check PIN** menu and **Select**.  
Enter PIN and validate.  
Select **Activate** or **Deactivate** and validate.

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# Settings



## PIN2 number

**Security**



You have a second PIN number to allow you to access certain functions\*.

\* These functions may or may not be available depending on your SIM card.  
Proceed as above in order to activate, deactivate or modify PIN number 2 of your phone.

## Phone code

**Security**



The Phone code menu allows you to activate the phone code so that it is requested and checked whenever the phone is switched on if a different SIM card is used. This code is automatically linked to the SIM card installed when the phone is activated, for example to protect the phone if stolen.

To activate or deactivate the phone code, select the **Phone code** menu and validate.  
Enter 0000 (the factory code, by default) and validate.  
Select **Activate** or **Deactivate** and validate.

To modify the phone code, select **Modify** and validate.  
Enter old phone code and validate.  
Enter new phone code and validate.  
Enter phone code again to confirm it and validate.

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# Settings

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## Confidentiality



*The Confidentiality function is used to delete numbers stored in View last calls and the SMS stored in the memory when a new SIM card is inserted into the phone.*

*This menu allows the activation of automatic deletion, after power off/on, for messages and/or calls stored in the phone.*

On the **Security** menu, please select the **Confidentiality** menu and **Select**. Select **Activate** or **Deactivate** and validate.

## Operator



*This menu allows you to modify the call barring.*

On the **Security** menu, please select the **Operator** menu and **Select**. Access to this service depends on your type of subscription.

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# Settings

Call barring can be applied to ALL calls (incoming and outgoing), to all incoming calls when you are away from your home country (if roaming available).

## Call barring

This menu allows you to block the sending or reception of certain calls.

Before you can use this service, a password will be provided by your operator when you take out your subscription.

On the **Security** menu, please select the **Call barring** menu and **Select**.  
Select **Activate** or **Deactivate** and validate.

## Fixed dialling

This menu allows you to restrict the outgoing calls.  
The availability of this menu depends on your SIM.

On the **Security** menu, please select the **Fixed dialling** menu and **Select**.  
Enter PIN number 2 and validate.  
Select **Activate** or **Deactivate** and validate.  
Proceed as for any other phonebook.

When activating this function, only the numbers stored in the phonebook can be called.

*This phonebook is linked to the SIM card, and its size depends on the card's capacity.*

# Settings

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## Cost



This menu allows you to control the cost of your calls (\*). On the **Security** menu, please select the **Cost** menu and validate. The **Cost** menu (\*) lets you check the cost of the last call you made and of all the calls you made since you last deleted them. The **Delete costs** menu (\*) lets you delete the cost of your last call and reset the cost counter after entering your PIN 2 code.

**(\*) WARNING**

Depending on how the networks and associated subscription cards are configured, some functions may be unavailable (these are marked out with \*).

## Networks

This menu allows you to configure network preferences.



On the **Settings** menu, please select the **Networks** menu and **Select**.

Choose **Preferred** to view all the pre-registered networks.

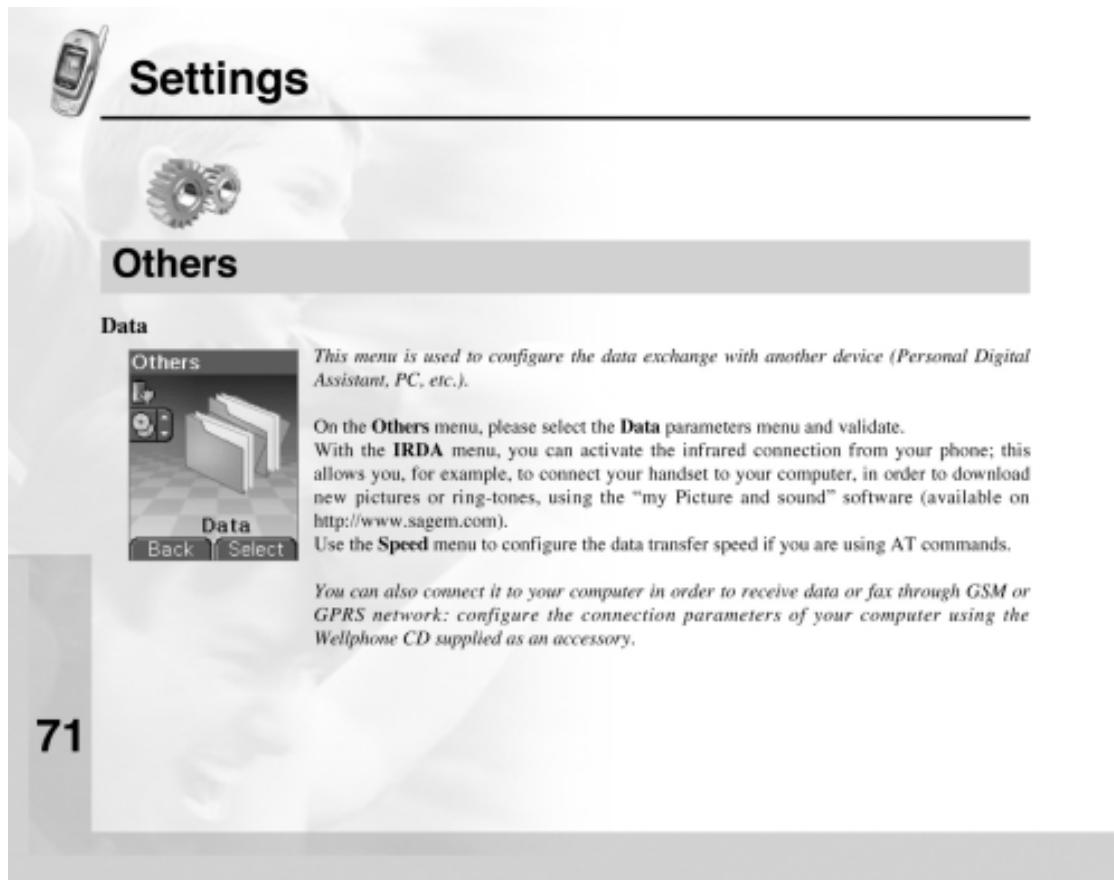
Choose **Selection** to activate (automatically or manually) one of the networks accessible in the area in which you are located.

Choose **Network type** to select your network: GSM-DCS or PCS (depending on model).

Choose **GPRS** to select the way you want to be attached on the GPRS network: always, or only when needed (when launching a data connection).

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**Settings**

**Others**

**Data**

*This menu is used to configure the data exchange with another device (Personal Digital Assistant, PC, etc.).*

On the **Others** menu, please select the **Data** parameters menu and validate.

With the **IRDA** menu, you can activate the infrared connection from your phone; this allows you, for example, to connect your handset to your computer, in order to download new pictures or ring-tones, using the "my Picture and sound" software (available on <http://www.sagem.com>).

Use the **Speed** menu to configure the data transfer speed if you are using AT commands.

*You can also connect it to your computer in order to receive data or fax through GSM or GPRS network: configure the connection parameters of your computer using the Wellphone CD supplied as an accessory.*

# Settings



## Energy saving

### Others



Energy savin.  
Back | Select

*This function is used to deactivate the screen backlight and to select the economic mode.*

On the **Others** menu, please select the **Energy saving** menu and **Select**.

**Backlight:** choose one of the options given: Deactivate, Full backlight, Screen only, and validate.

By deactivating the screen backlight, you increase the battery life of your phone.

*Warning: display legibility is reduced.*

**Economic mode:** choose one of the options given: Partial, Deactivate, Complete, and validate.

When choosing the economic mode, the screen goes out (standby mode).

To quit economic mode, press the key.

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## Shortcuts

This menu allows you to allocate functions to the programmable keys.

### Settings



Short cuts  
Back | Select

*This menu allows you to customize the settings of your phone to make it as convenient as possible for you to use.*

On the **Settings** menu, please select the **Shortcuts** menu and **Select**. **Select** the key that you wish to modify and validate.

Choose the function that you want to allocate to this key and validate.

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**Settings**

**Others**

**Set Date/Time**

*This menu allows you to set the date and time of your phone.*

On the **Date / time** menu, please select Control and validate.  
Date: set the date by entering it directly in digital form or by using the **▼ ▲** keys.  
Use the **▶** (or **◀**) key to access the next (or previous) entry field.  
Once the date is correct, validate it.  
Time: same procedure as for setting the date.

**Date / Time**

**Display**

*This menu allows you to select the date and time display type.*

On the **Date / time** menu, please select **Display** and validate.  
In the list that appears, select the desired display type between:  
- Analog,  
- Digital,  
- None,  
by using the **▼ ▲** keys and validate.

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# Settings

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## Time zone



*This menu allows you to change time in relation to the GMT time.*

On the **Date / time** menu, please select **Time zone** and validate.  
Choose the time of the country desired by calculating the time from the GMT time.

## Daylight savin



*This menu allows you to set your phone to the summer/winter time.*

On the **Date / time** menu, please select 1 h, 2 h **Summer time** or **Winter time**  
depending on the season, and validate.

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## Services



### Services

*This menu allows you to access numerous services offered by your operator. The list of these services will appear in the menu depending on your subscription.*

This menu allows you to access your operator's basic services.

On the **Services** menu, please choose from the list offered. This list depends on your SIM.

## Technical features

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Use of your phone is subject to safety measures designed to protect users and their environment.

### **Electrical safety:**

Only use the chargers listed in the manufacturer's catalogue. Using any other charger may be dangerous; it would also invalidate your warranty. Line voltage must be exactly the one indicated on the charger's serial plate.

### **Aircraft safety:**

When travelling by plane, you will need to switch your phone off when so instructed by the cabin crew or the warning signs. Using a mobile phone may be dangerous to the operation of the aircraft and may disrupt the phone network.

### **Explosive materials:**

Please comply with warning signs at gas station asking you to switch your phone off. You will need to comply with radio equipment usage restrictions in places such as chemical plants, fuel depots and at any location where blasting operations are under way.

### **Electronic medical equipment:**

Your phone is a radio transmitter which may interfere with electronic medical equipment such as hearing aids, pacemakers, etc.

Your doctor or the manufacturers of such equipment will be able to give you any advice you may need in this area. Always make sure that your phone is switched off in hospitals when so instructed by warning signs or by medical staff.

### **Road safety:**

Except in emergencies, do not use your phone when driving unless you have a hands-free kit enabling you to manoeuvre freely.

In order to give your full attention to driving, stop and park safely before making a call. You must comply with any current legislation.

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## Technical features

This phone complies with European requirements governing exposure to radio waves. Your phone is a transmitter/receiver. It has been designed and manufactured to comply with radiofrequency energy exposure limits recommended by the Council of the European Union and the ICNIRP for the entire population. These limits were established by independent scientific agencies on the basis of in-depth and regular evaluations of scientific studies. The limits include a large safety margin that is intended to guarantee the safety of all, irrespective of age or state of health.

The exposure standard for phones uses a unit of measure called the SAR, or Specific Absorption Ratio. The SAR limit recommended by the Council of the European Union and the ICNIRP is 2 W/kg (\*). Tests were conducted on a standardised usage position basis, with the phone transmitting at its maximum level certified in all its frequency bands. Although the standardised measurement is done at maximum power, the real SAR of the phone in use is generally very far below the maximum value. The phone was designed to operate at the power level strictly necessary to ensure communication with the network. In general, the closer you are to a base station, the lower the power at which the phone will transmit.

Validation of conformity with European directive 1999/5 (directive R&TTE) is a pre-requisite for introducing any model of phone onto the market. Protection of health and the safety of the public and the user are a vital requirement of this directive. This model's maximum SAR value measured in the conformity test is 0.59 W/kg. Although differences may exist from one phone to the other and depending on position, all comply with European regulations.

(\*) The SAR limit for phones used by the general public is 2 watts/kilogram (2 W/kg) on average for 10 g of tissue. This value

includes a large safety margin to increase protection and to take account of the variations in measurements. The SAR information may vary in different parts of the world, depending on declared national requirements and the frequency bands used by the network.

## Troubleshooting

Wireless ON Ur hands



### PROBLEM - SITUATION

### ACTIONS

<b>It is impossible to switch the phone on</b>	Put it on charge for at least 15 minutes before switching it back on again. Check if the battery icon is scrolling up and down. If so, the phone is charging. If not, please take the charger out and put it back on again. Please check that the charging icon is scrolling up and down. If you still cannot switch the phone on, please disconnect the charger, put it back on again and please repeat that manipulation several times. If the charging icon is still not scrolling up and down, please contact your after-sales services. When the charging icon has stopped scrolling up and down, the battery is charged.
<b>Battery status unknown</b>	The phone does not recognize the battery. Please check the position of the battery.
<b>LOW BATTERY</b>	This message is displayed when the battery becomes too weak. The phone switches itself off automatically. Put the phone on charge.
<b>SIM not present</b>	Check if the SIM card is present and properly positioned / inserted. Check the condition of the SIM card. If damaged, please go back to the operator's shop for advice. Contact your after-sales service if the message persists.
<b>Incorrect PIN code</b>	An incorrect PIN code has been entered. Be careful! Three incorrect PIN codes will block the SIM Card.
<b>SIM BLOCKED</b>	You have entered three incorrect PIN codes. Enter your PUK code to unlock your SIM Card. You must enter: **05#PUK#PIN#PIN# You must enter the PUK code (Personal Unblocking Key) given by your network provider. 10 errors will permanently block your SIM Card. You must then contact your network provider to get a new one.

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## Troubleshooting

### PROBLEM - SITUATION

### ACTIONS

#### SIM LOCKED

On network providers' request, the handset can only be used with some types of SIM cards. This message means that the SIM card you are using does not fit with the phone. Take the SIM card out, and switch it back on. If the message **SIM not present** appears on the screen, you will need to check its compatibility next to the place where you bought it. If not, please contact your after-sales service.

#### No call connection

Check that the number you have dialled is correct.  
If the letter R is displayed on the top right corner of the screen, without any network name displayed, only emergency services can be called.  
Check the status of your credit.  
Check that the SIM Card you are using offers the service you are requesting ; check if its validity has not expired.  
Check and deactivate the outgoing calls restriction when necessary.  
The network could be saturated. Try later.  
If the problem persists, please contact your Technical Helpdesk.

#### No receiving calls

Try to make a call in order to check that the phone and the networks are operational.  
Check and deactivate the permanent call forwarding (permanent call forwarding icon displayed on the screen).  
Check and deactivate the incoming calls restriction when necessary.  
If the problem persists, please contact your Technical Helpdesk.

#### Quality reception when calling

Avoid placing your fingers on the top of the phone, where the aerial is integrated: the phone will have to use full strength to establish a quality transmission.

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#### Impossible to send message

Check that the message centre number is correctly entered.  
To do so, please select the menu **Settings**, select **Calls**, select **Answer phone number** and check the number entered. Please contact your network provider to get this number.

## Troubleshooting

Wireless ON Ur hands



### PROBLEM - SITUATION

### ACTIONS

<b>No answer phonebox</b>	Check that the SIM card does offer this service. Program the call to be forwarded to answer phone using the information provided by the operator.
<b>Check that the SIM card used offers this service. Try to make a call to check that phone and network are operational.</b>	
<b>Check if the answer phone number is properly configured. To do so, go to the <b>Calls</b> menu, select <b>Answer phone number</b> and check the number. Otherwise, enter your operator's answer phone centre number.</b>	
<b>If answer phone icon flashing</b>	Call the answer phone to make it disappear.
<b>Wrong ring tone is played on call reception</b>	Check the call group of the contact who has called: check the ring tone selected for this group.
<b>Backlight does not work</b>	Go into the <b>Settings / Others</b> menu, select the <b>Energy saving</b> menu and activate backlight.
<b>In WAP context:</b>	Switch off and then switch phone back on.
<b>SERVER NO ANSWERING message</b>	In the <b>WAP</b> menu, <b>Clear the cache</b> .
<b>Logon to home page impossible</b>	
<b>Operator name does not appear on screen</b>	Go into the <b>Settings</b> menu, select <b>Networks</b> , then <b>Selection</b> . Wait until the operator appears, select it and validate.
<b>How do I (un)lock the keypad?</b>	Press the <b>*</b> key, then the <b>OK</b> key (validate).
<b>How do I switch to silent mode?</b>	Hold the <b>*</b> key down until the ring tone sounds, when a short touch is enough.
<b>How do I delete the envelop that appears on the screen?</b>	If you have received a voice mail, please call your voice mailbox and follow the instructions given.

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## Troubleshooting

### PROBLEM - SITUATION

### ACTIONS

**How do I delete the answer phone that appears on the screen?**

This answer phone means that you have received a voice mail: please call your voice mailbox and listen to it. Please follow the instructions given.

**How do I remove the written message at the bottom of the home page (1 call)**

Press the key to go back to the initial page without messages.

**How do I download ring tones?**

Logon to one of the following sites via your computer: [www.planetsagem.com](http://www.planetsagem.com). These sites offer to send ring tones to your phone in the form of an SMS. You can also logon to your operator's site. Once the SMS has been received, all you have to do is save it: validate the option "Save messages", the tune will then be added to your list. In addition, you can logon to some sites by phone.

**How do I free up memory to download my objects**

Go into the **Multimedia** menu, select **My photos**, **My pictures** or **My sounds** then delete some objects.

**How do I free up memory to receive new messages?**

Manage your **Outbox** carefully. It is recommended not saving them automatically: too many messages saved will quickly fill up the available memory and no further messages will be received. To delete them, please go into the **Messages** menu, select **Outbox** then delete some messages. Manage your **Inbox** carefully also.

It is highly recommended to manage your **Phonebook** carefully.

If you have received pictures enclosed to a Vcard, please save or delete them.

## Troubleshooting

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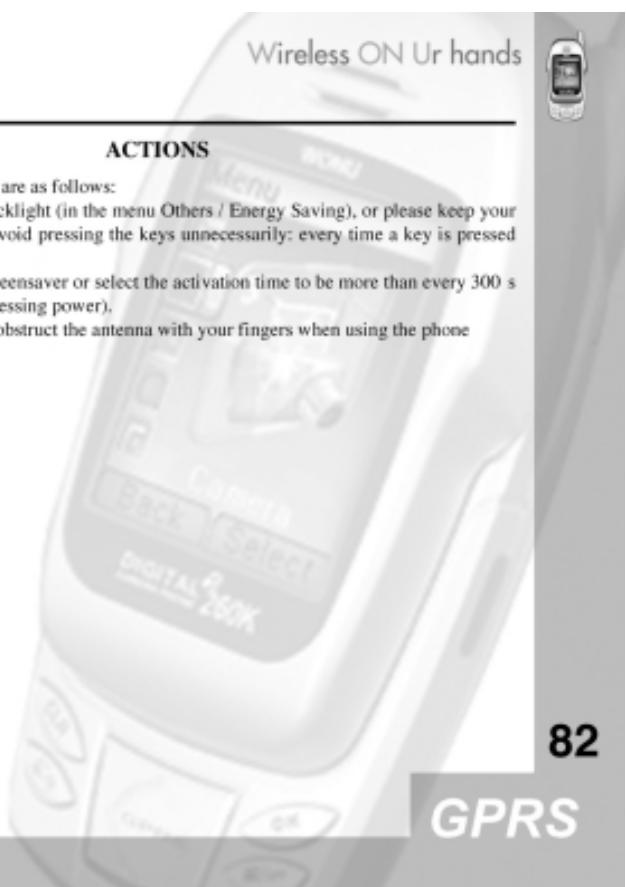


### PROBLEM - SITUATION

### ACTIONS

**How can I increase the efficiency of my phone?** The most efficient actions are as follows:  
You can deactivate the backlight (in the menu Others / Energy Saving), or please keep your phone safely in order to avoid pressing the keys unnecessarily: every time a key is pressed the screen lights up.  
You can deactivate the screensaver or select the activation time to be more than every 300 s (the screensaver uses processing power).  
Make sure that you don't obstruct the antenna with your fingers when using the phone

**How to quit the eco mode?** Press the  key.



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## Health and Safety Information

### Usage guidelines: All about performance and safety

#### Getting the Most Out of Your reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

#### Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key. Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

#### Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

## Health and Safety Information

Wireless ON Ur hands



### Knowing Radio Frequency Safety

The design of your phone complies with updated NCRP standards described below.

In 1991-92, the Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute (ANSI) joined in updating ANSI's 1982 standard for safety levels with respect to human exposure to RF signals. More than 120 scientists, engineers and physicians from universities, government health agencies and industries developed this updated standard after reviewing the available body of research. In 1993, the Federal Communications Commission (FCC) adopted this updated standard in a regulation. In August 1996, the FCC adopted hybrid standard consisting of the existing ANSI/IEEE standard and the guidelines published by the National Council of Radiation Protection and Measurements (NCRP).

### Maintaining Your Phone's Peak Performance

**Note:** For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- Hold the Phone with the antenna raised, fully-extended and over your shoulder.
- Try not to hold, bend or twist the phone's antenna.
- Don't use the phone if the antenna is damaged.
- Speak directly into the phone's receiver.

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### Maintaining Safe Use of and Access to Your Phone

FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

FOR CONNECTION TO A SUPPLY NOT IN THE U.S.A., USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET.

#### Using Your Phone While Driving

Talking on your phone while driving is illegal in some states. Even where it's not, it can divert your attention from driving. Remember that safety always comes first.

When using your phone in the car:

Get to know your phone and its features, such as speed dial and redial.

When available, use a hands-free device.

Position your phone within easy reach.

Let the person you are speaking to know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions.

Do not take notes or look up phone numbers while driving.

Dial sensibly and assess the traffic; if possible, place calls when you are stationary or before pulling into traffic.

Do not engage in stressful or emotional conversations that may divert your attention from the road.

Dial **911** to report serious emergencies. It's free from your wireless phone.

Use your phone to help others in emergencies.

Call special non-emergency wireless number when necessary.

## Health and Safety Information

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### Following Safety Guidelines

**Note:** Always turn off the phone in health care facilities and request permission before using the phone near medical equipment.

To operate your phone safely and efficiently, always follow any special regulations in a given area. Turn your phone off in areas where use is forbidden or when it may cause interference or danger.

### Using Your Phone Near Other Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, RF signals from wireless phones may affect inadequately shielded electronic equipment.

RF signals may affect improperly installed or inadequately shielded electronic operating systems and/or entertainment systems in motor vehicles. Check with the manufacturer or their representative to determine if these systems are adequately shielded from external RF signals. Also check with the manufacturer regarding any equipment that has been added to your vehicle.

Consult the manufacturer of any personal medical devices, such as pacemakers and hearing aids, to determine if they are adequately shielded from external RF signals.

### Turning Off Your Phone Before Flying

Turn off your phone before boarding any aircraft. To prevent possible interference with aircraft systems, the U.S. Federal Aviation Administration (FAA) regulations require you to have permission from a crew member to use your phone while the plane is on the ground. To prevent any risk of interference, FCC regulations prohibit using your phone while the plane is in the air.

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## Health and Safety Information

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### Turning Off Your Phone in Dangerous Areas

To avoid interfering with blasting operations, turn off your phone when in a blasting area or in other areas with signs indicating that two-way radios should be turned off. Construction crews often use remote-control RF devices to set off explosives.

**Note:** Never transport or store flammable gas, liquid or explosives in the compartment of your vehicle that contains your phone or accessories.

Turn off your phone when you're in any area that has a potentially explosive atmosphere. Although it's rare, your phone or its accessories could generate sparks. Sparks could cause an explosion or a fire resulting in bodily injury or even death. These areas are often, but not always, clearly marked. They include:

- Fueling areas such as gas stations.
- Below deck on boats.
- Fuel or chemical transfer or storage facilities.
- Areas where the air contains chemicals or particles such as grain, dust or metal powders.
- Any other area where you would normally be advised to turn off your vehicle's engine.

### Restricting Children's Access to your Phone

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

## Health and Safety Information

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### Caring for the Battery

The guidelines listed below help you get the most out of your battery's performance.

Use only Wonu-approved batteries and desktop chargers. These chargers are designed to maximize battery life.

Using other batteries or chargers voids your warranty and may cause damage.

In order to avoid damage, charger the battery only in temperatures that range from 32° F to 104° F (0° C to 40° C).

Don't use the battery charger in direct sunlight or in high humidity areas, such as the bathroom.

Never dispose of the battery by incineration.

Keep the metal contacts on top of the battery clean.

Don't attempt to disassemble or short-circuit the battery.

The battery may need recharging if it has not been used for a long period of time.

It's best to replace the battery when it no longer provides acceptable performance. It can be recharged hundreds of times before it needs replacing.

Don't store the battery in high temperature areas for long periods of time. It's best to follow these storage rules:

Less than one month

32° F to 104° F (0° C to 40° C)

### Disposal of Lithium Ion (Li-Ion) Batteries

For safe disposal options of your Li-Ion batteries, contact your nearest Wonu-authorized service center.

For safety, do not handle a damaged or leaking Li-Ion battery

Be sure to dispose of your battery properly. In some areas, the disposal of batteries in household or business trash may be prohibited.

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## Health and Safety Information

### Acknowledging Special Precautions and FCC

#### FCC Notice

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (Such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269, Attn: Publication Sales Division.

#### Cautions

Any changes or modifications to your phone not expressly approved in this document could void your warranty for this equipment, and void your authority to operate this equipment. Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or defect to the phone. Although your phone is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or坐it on it.

#### Body-Worn Operation

For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 15 mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

For More information about RF exposure, please visit the FCC website at [www.fcc.gov](http://www.fcc.gov)

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#### SAR Values

Head: 1.25 W/Kg  
Body worn: 0.992 W/Kg  
Distance: 15 mm

# Health and Safety Information

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## FDA Consumer Update

### Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

### What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

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## Health and Safety Information

FDA belongs to a interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

National Institute for Occupational Safety and Health  
Environmental Protection Agency  
Federal Communications Committee  
Occupational Safety and Health Administration

The National Institute of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities about wireless phones with the Federal Communications Commission (FCC). All Phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the wireless exposures that people get from these base stations are typically thousands of times lower than those they get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

### What kinds of phones are the subject of this update?

The term "wireless phones" refers here to hand-held wireless phones with built-in antennas, often called "cell","mobile,"or "PCS". These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones" which have a base unit connected to the phone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

## Health and Safety Information

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### What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glaucoma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures. However, none of the studies can answer questions about long-term exposures, since average period of phone use in these studies was around three years.

### What research is needed to decide whether RF exposure from wireless phones poses a health threat?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer-promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop is not known and may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones.

Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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## Health and Safety Information

### What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with U.S. Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

### How can I find out how much radio frequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply Federal Communications Commission (FCC) guidelines that limit radio frequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and other federal health and safety agencies. The FCC limit for exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissue that absorb energy from the wireless phone and is set well below levels known to have effects.

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Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rrfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

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### What has FDA done to measure the radio frequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radio frequency energy (RF) exposure from wireless phones and other wireless hand sets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

### What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products--and at this point we do not know that there is--it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

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## Health and Safety Information

### What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

### What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed on late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000.

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FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

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### Where can I find additional information?

For additional information, please refer to the following resources:

FDA web page on wireless phones  
(<http://www.fda.gov/cdrh/phones/index.html>)

Federal Communications Commission (FCC) RF Safety Program  
(<http://www.fcc.gov/oet/rfsafety>)

International Commission on Non-Ionizing Radiation Protection  
(<http://www.icnirp.de>)

World Health Organization (WHO) International EMF Project  
(<http://www.who.int/emf>)

National Radiological Protection Board (UK)  
(<http://www.nrph.org.uk>)

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## Health and Safety Information

### CTIA Safety Information

#### Exposure to radio frequency signals

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

In August, 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standard bodies:

ANSI C95.1 (1992)  
NCRP Report 86 (1986)  
ICNIRP (1996)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards).

#### Antenna care

Use only the specified of approved replacement antenna.  
Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

#### Phone operation

**NORMAL POSITION :** Hold the phone as you would any other telephones with antenna pointed up and over your shoulder.

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#### Tips on efficient operation:

For your phone to operate most efficiently:

Extend your antenna fully

Do not touch with the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

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### Driving

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

- Give full attention to driving, driving safety is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

### Electronic devices

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

#### Pacemakers

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

Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the pacemaker is turned on;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

#### Hearing aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives.)

Optional for each phone manufacturer.

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## Health and Safety Information

### **Other medical devices**

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

### **Vehicles**

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

### **Posted facilities**

Turn your phone OFF in any facility where posted notices so require.

### **Aircraft**

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

### **Blasting areas**

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted : "turn off two-way radio". Obey all signs and instructions.

### **Potentially explosive environments**

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause explosion or fire resulting in bodily injury or even death.

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

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### For vehicles equipped with an airbag

An airbag inflated with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the air bag deployment area. If in a vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

### Owner's Record

The model number, regulatory number and serial number are located on a nameplate inside the battery compartment. Record the serial number in the space provided below. This will be helpful if you need to contact us about your phone in the future.

Model :WGM - 1893C

Serial No.:

### User Guide Proprietary Notice

T9 Text Input is licensed by Tegic Communications and is covered by U.S. Pat. 5,818,437, U.S. Pat. 5,953,541, U.S. Pat. 6,011,554 and other patents pending.

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## STANDARD LIMITED WARRANTY

### **What is Covered and For How Long?**

WONU Telecom Co., Ltd (WONU) warrants to the original purchaser ("Purchaser") that WONU'S Phones and accessories ("products")are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase and continuing for the following specified period of time after that date :

Phone	1Year
Batteries	1Year
Leather Case/Pouch	90Days
Holster	90Days
Other Phone Accessories	1Year

### **What is Not Covered?**

This Limited Warranty is conditioned upon proper use of Product by Purchaser. This Limited Warranty does not cover (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical or electromechanical stress, or modification of any part of Product, including antenna, or cosmetic damage; (b) illegible; (c) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal use; (d) malfunctions resulting from the use of product in conjunction with accessories, products, or ancillary/peripheral equipment not furnished or approved by WONU; (e) defects or damage from improper testing, operation, maintenance, installation, or adjustment; (f) installation, maintenance, and service of Product, or (g) Product used or purchased outside the United States or Canada.

This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty dose not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by WONU for charging the battery, (ii) any of the seals on the battery are broken or show evidence of tampering, or (iii) the battery has been used in equipment other than the WONU phone for which it is specified.

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