

# Panasonic®

## Operating Instructions

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Easy Use Mobile Phone

Model No. **KX-TU160 EX**



**Thank you for purchasing a Panasonic product.**

Please read these operating instructions before using the unit and save them for future reference.

**Before initial use, see “Important Information” on page 4.**

### Supplied accessories

- Power adapter (Part No. TPA-97H050055VW02): 1 pc
- Rechargeable battery (Part No. 454854AR): 1 pc
- Headset (Part No. JYK-E112): 1 pc

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# 1 Important Information

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## For your safety

Read this section carefully before using the product to ensure proper and safe operation. Failure to read them carefully may cause severe injury, loss of life/property, or be illegal.

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### WARNING

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#### Power connection

- Use only the power source marked on the product.
  - Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
  - Completely insert the AC adaptor into the power outlet. Failure to do so may cause electric shock and/or excessive heat resulting in a fire.
  - Regularly remove any dust, etc. from the AC adaptor by pulling it from the power outlet, then wiping with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc. resulting in a fire.
  - Unplug the product from power outlets and remove the battery from the phone if it emits smoke, an abnormal smell, or makes an unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped emitting and contact an authorised service centre.
  - Unplug from power outlets and never touch the inside of the product if its casing has been broken open.
  - Never touch the plug with wet hands. Danger of electric shock exists.
  - The AC adaptor should only be used indoors.
  - Do not use the supplied AC adaptor with other devices.
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#### Installation

- This product is not water-resistant. To prevent the risk of fire or electrical shock, do not expose the product to rain or any type of moisture.
  - Keep all accessories, including the SIM card and microSD card, out of the reach of children to prevent swallowing.
  - This product emits radio waves and may cause interference to other electronic devices.
  - Do not allow the AC adaptor to be excessively pulled, bent or placed under heavy objects.
  - To prevent serious damage to this product, avoid strong impacts and rough handling.
  - To avoid damage or malfunction, do not modify the SIM card or microSD card or touch the card's gold-coloured contacts.
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#### Battery

- Use only the battery specified.
  - Risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries according to the instructions.
  - Do not open, puncture, crush, or drop the battery. A damaged battery must not be used. This can result in the risk of fire, explosion, overheating, and leaking of the electrolyte.
  - Stop using the battery immediately and keep away from fire if it emits an abnormal smell or leaks electrolyte. Released electrolyte may cause fire or burns.
  - Do not touch released electrolyte if the battery leaks. It may cause burns or injury to the eyes or skin. The electrolyte is toxic and may be harmful if swallowed. If you touch it, immediately wash the affected areas with water and seek medical help.
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- Exercise care when handling the battery. Do not allow conductive materials such as rings, bracelets, or keys to touch the battery, otherwise a short circuit may cause the battery and/or the conductive material to overheat and cause burns.
  - Do not use or charge a wet battery. This can result in the risk of fire, explosion, overheating, and leaking of the electrolyte.
  - Charge the battery provided with or identified for use with this product only, in accordance with the instructions and limitations specified in this manual.
  - Only use a compatible charger to charge the battery. Do not tamper with the charger. Failure to follow these instructions may cause the battery to swell or explode.
  - Do not put any conductive materials such as coins or hairpins onto the charge contacts. This can result in the risk of overheating.
  - Avoid the use in the following conditions:
    - High or low extreme temperatures during use, storage or transportation.
    - Replacement of a battery with an incorrect type that can defeat a safeguard.
    - Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
    - Extremely high temperature and/or extremely low air pressure that can result in an explosion or the leakage of flammable liquid or gas.
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## Operating safeguards

- Unplug the product from power outlets before cleaning. Do not use liquid or aerosol cleaners.
- Do not disassemble the product.
- Do not allow liquids such as water, or foreign materials such as metal pieces or flammable materials to get into the SIM card holder. This can result in the risk of fire, electric shock, or malfunction.
- Do not leave this product near heat sources (such as radiators, cookers, etc.), in direct sunlight, or in a car under blazing sun. It should not be placed in rooms where the temperature is less than 0 °C or greater than 40 °C.
- You are advised not to use the phone in an aircraft. Turn the phone off before boarding an aircraft. Set the alarm function off so that the phone cannot be automatically turned on. Using this phone in an aircraft may be hazardous to the aircraft's operation and disrupt wireless communication. It may also be illegal.
- You are advised not to use this product at refuelling points. Users are reminded to observe restrictions on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress.
- It is imperative that drivers exercise proper control of vehicles at all times. Do not use a phone while you are driving; find a safe place to stop first. Do not speak into a hands free microphone if it will take your mind off the road. Always acquaint yourself thoroughly with restrictions concerning the use of phones within the area where you are driving and observe them at all times.
- RF signals may affect electronic systems in motor vehicles (for example, fuel injection, air bag systems) that have been improperly installed or are inadequately shielded. For more information, consult the manufacturer of your vehicle or its equipment.
- The use of excessive sound volume through earphones, headphones, or headsets may cause hearing loss.
- To prevent possible hearing damage, do not listen at high volume levels for long periods.
- Do not shine the LED light close to anybody's eyes or turn the LED light in the direction of car drivers. This can result in the risk of injuries or accident.
- It is recommended that this equipment be used under good reception conditions. In a place with good reception, the LCD display will show the following. Example:
- It is recommended to use a hands-free kit, and in this case keep the phone away from the stomachs of pregnant women and the lower abdomen of adolescents.



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1. Do not put the battery into the fire.
  2. Do not drop the battery.
  3. Do not disassemble the battery.
  4. Do not allow baby to play with battery.



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## Medical

- Consult the manufacturer of any personal medical devices, such as pacemakers or implanted cardioverter defibrillators to determine if they are adequately shielded from external RF (radio frequency) energy.
- Wireless Technology Research (WTR) recommends a minimum separation of 15.3 cm between a wireless device and an implanted medical device such as pacemaker or implanted cardioverter defibrillator to avoid potential interference with the medical device. If you have any reason to suspect that your phone is interfering with a pacemaker or other medical devices, turn off the phone immediately and contact the manufacture of pacemaker or other medical devices.
- Turn off the phone in hospitals or health care facilities when any regulations posted in the area instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

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## CAUTION

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### Installation

- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.
- It is recommended that you keep a written record of any important data which you store in your phone or SIM card in order to avoid accidental loss.

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### Operating environment

- Do not place magnetic cards or similar objects near the phone. Magnetic data on cash cards, credit cards, telephone cards and floppy disks, etc. may be deleted.
- Do not put magnetic substances close to the phone. Strong magnetism might affect operation.

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## Important safety instructions

When using your product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Do not use this product near water. For example, avoid areas near a bathtub, washbowl, kitchen sink, laundry tub, or swimming pool.
2. Avoid using the phone if charging during an electrical storm. There may be a remote risk of electric shock from lightning.
3. Do not use the phone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and battery indicated in this manual. Do not dispose of the battery in a fire. It may explode. Check with local codes for possible special disposal instructions.
5. Do not paint or attach a thick sticker to the phone. This may prevent proper operation.

**SAVE THESE INSTRUCTIONS**

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## For best performance

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### Environment

- The product should be kept free from excessive smoke, dust, moisture, high temperature and vibration.
  - To avoid damage, charge the battery only in temperatures ranging from 5 °C to 35 °C.
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### Routine care

- Wipe the outer surface of the product and/or charge contacts with a soft and dry cloth.
  - Do not use benzine, thinner, or any abrasive powder.
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## Other information

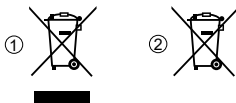
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### Notice for product disposal, transfer, or return

- This product and SIM card can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase information such as contacts stored in the contacts list, call logs, and SMS/MMS messages from the memory before you dispose of, transfer, or return the product.
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### Disposal of Old Equipment and Batteries

#### (Only for European Union and countries with recycling systems)



These symbols (①,②) on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local authority.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

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### For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

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## Information on Disposal in other Countries outside the European Union

These symbols (①,②) are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

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### Note for the battery symbol

This symbol (②) might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

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### Note for the battery removal procedure

Remove the phone's cover (①), and lift the battery (②), then remove it (③).



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## Trademarks

- microSDHC Logo is a trademark of SD-3C, LLC.
  - The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by Panasonic Corporation is under licence.
  - All other trademarks identified herein are the property of their respective owners.
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## Notice

- The phone supports microSD and microSDHC memory cards. In this document, the term “microSD card” is used as a generic term for any of the supported cards.
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## Ecodesign information

Ecodesign information under EU Regulation (EC) No. 1275/2008 amended by (EU) Regulation No. 801/2013.

“ErP Free Web Product Information” is available at the following URL:  
<https://www.ptc.panasonic.eu/compliance-documents>

Power consumption in networked standby and guidance are mentioned in the web site above.

For more information about the energy efficiency of the product, please visit our website, [www.panasonic.com](http://www.panasonic.com), and enter the model number in the search box.

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## SAR

This model meets international guidelines and EU requirements for exposure to radio waves. Your wireless device is a radio transmitter and receiver. It is designed not to exceed radio wave exposure limits recommended by international guidelines. These guidelines were developed by the independent scientific organisation ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health. These guidelines also form the basis of international regulations and standards on RF Exposure. The guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit for wireless devices is 2 W/kg.

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The highest SAR value for this device tested at the head was: 0.386 W/kg  
The highest SAR value for this device tested on the body was: 1.010 W/kg<sup>\*1</sup>  
This SAR limit at the limb for wireless devices is 4 W/kg.

The highest SAR value for this device tested on the handheld was: 1.717 W/kg<sup>\*2</sup>  
As SAR is measured utilizing the devices highest transmitting power the actual SAR of this unit while operating is typically below that indicated above. This is due to automatic changes to the power level of the device to ensure it only uses the minimum level required to communicate with the network.  
ICNIRP (<http://www.icnirp.org>)

<sup>\*1</sup> This device was tested for typical body-worn operation with the back of the phone kept 0.5 cm from the body.

<sup>\*2</sup> This device was tested for typical body-worn operation with the back of the phone kept 0 cm from the body.

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## Specifications

### • Standard:

Dual band GSM 900/1800 MHz  
Bluetooth version 3.0, Class 2  
USB version 2.0

### • Display:

TFT colour 2.4-inch  
(QVGA: 240 x 320 pixels)

### • Camera:

0.3 MP

### • Frequency range:

GSM900 890.2-914.8 MHz  
935.2-959.8 MHz  
GSM1800 1710.2-1784.8 MHz  
1805.2-1879.8 MHz

Bluetooth: 2.402-2.48 GHz

### • RF transmission power:

GSM 900: 2 W (max.),  
GSM 1800: 1 W (max.)  
Bluetooth: 2.5 mW (max.)

### • Power source:

100–240 V AC, 50/60 Hz

### • Power consumption (when charging):

Standby: 0.2 W  
Maximum: 4 W

### • Operating/Charging conditions:

Operating: 0 °C – 40 °C, 20 % – 80 %  
relative air humidity (dry)  
Charging: 5 °C – 35 °C

### • Battery:

Li-Ion 3.7 V/1,400 mAh

### • Battery performance (supplied):

Talk time: Approx. 6.5 hours<sup>\*1</sup>  
Standby time: Approx. 700 hours<sup>\*1, \*2</sup>

### • Antenna:

Internal

### • SIM card type:

1.8 V/3 V

### • Memory card type:

microSD, microSDHC up to 32 GB  
(not supplied)

<sup>\*1</sup> Operating time is dependent upon usage environment, battery age and condition. Values were calculated according to GSMA TS.09.

<sup>\*2</sup> The incoming call indicator and message indicator flash when there is a missed call or a new message is received. The standby time will be shortened when you leave the indicator flashing.

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## 2 General information

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- This phone is designed to operate on GSM network - GSM 900/1800MHz.
  - This equipment is designed for use in Germany, Italy, Spain, France, Netherlands, Czech republic, Poland, Hungary, Croatia, Greece, Lithuania.
  - In the event of problems, you should contact your equipment supplier in the first instance.
  - For use in other countries, please contact your equipment supplier.
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# Declaration of Conformity

Hereby, Panasonic Marketing Europe GmbH declares that the radio equipment type Easy Use Mobile Phone KX-TU160 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:  
<https://www.ptc.panasonic.eu/compliance-documents>

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## Additional/replacement accessories

Please contact your place of purchase or Panasonic sales office for sales information.

Accessory item	Model number
Rechargeable battery	454854AR Lithium Ion (Li-Ion) battery.
Headset	JYK-E112

## 2.1 Profile

Please read this pamphlet carefully in order to make your phone in perfect condition. Our company may change this mobile phone without prior written notice and reserves the final right to interpret the performance of this mobile phone. Due to different software and network operators, display on your phone may be different, refer to your phone for details.

## 2.2 Safety Information

If your phone has lost or been stolen, notify the telecommunication office the SIM card is disabled (Network support is required). This can avoid economic loss caused by unauthorized use. Please take measures as following to avoid your phone being unauthorized use:

- Set PIN code of SIM card
- Set phone password

## 2.3 Safety warning and Attentions

### Safety warning

- **Road safety comes first**  
Do not use a hand-held phone while driving. Use hands-free fittings when calls are unavoidable while driving. In some countries, dialing or receiving calls while driving is illegal!
- **Switch off in aircraft**  
Wireless devices can cause interference in aircraft. Using a mobile phone in flight is illegal and risky. Please make sure that your mobile phone is powered off in flight.
- **Switch off before entering risky areas**  
Strictly observe the relevant laws, codes, and regulations on the use of mobile phones in risky areas. Turn off your mobile phone before entering a place susceptible to explosion, such as an oil station, oil tank, chemical plant or a place where a blasting process is under way.
- **Observe all special regulations**  
Follow any special regulations in force in any area such as hospitals and always switch off your phone whenever it is forbidden to use it or, when it may cause interference or danger. Properly use your mobile phone near medical apparatuses, such as pacemakers, hearing aids and some other electronic medical devices, as it may cause interference to such apparatuses.

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- **Interference**

The conversation quality of any mobile phone may be affected by radio interference. An antenna is built inside the mobile phone and located below the microphone. Do not touch the antenna area during a conversation, lest that the conversation quality deteriorate.

- **Qualified service**

Only qualified personnel may install or repair phone equipment. Installing or repairing the mobile phone on your own may bring great danger and violates the warranty rules.

- **Accessories and batteries**

Use only approved accessories and batteries.

- **Use sensibly**

Use only in a normal and proper manner.

- **Emergency calls**

Ensure the phone is switched on and in service, enter the emergency number, e.g. 112, then press the Dial key. Give your location and state your situation briefly. Do not end the call until told to do so.

**Note:** Just like all other mobile phones, this mobile phone does not necessarily support all the features described in this manual due to network or radio transmission problems. Some networks even do not support the emergency call service. Therefore, do not rely solely on the mobile phone for critical communications such as first aid. Please consult the local network operator.

## 2.4 Precautions

This mobile phone is well designed with fine art. Please exercise special care when using it. The following suggestions will help your mobile phone survive the warranty period and extend its service life:

- Keep the mobile phone and all its fittings beyond children's reach.
- Keep the mobile phone dry. Keep away from rain, moisture, liquid or other substances that may corrode electronic circuits.
- Do not use or store the mobile phone in dusty places, lest that active parts of the mobile phone be damaged.
- Do not store the mobile phone in a high-temperature place. High temperature will shorten the life of electronic circuits and damage the battery and some plastic parts.
- Do not store the mobile phone in a chilly place. Otherwise, moistures will be formed inside the mobile phone to damage electronic circuits when the mobile phone is moved to a constant temperature place.
- Do not throw, knock or shock the mobile phone, as that will destroy the internal circuits and high-precision components of the mobile phone.

## 3 Your phone

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### 3.1 Phone overview



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### 3.2 Status icons

The table below lists various icons that might appear on the status bar while using the phone. Apart from the icons for signal strength level and the power, other icons are displayed as per the current mode and priority of the phone.

Icon	Description
	Indicates the network signal strength.
	Indicates the current battery capacity.
	Indicates that there is an unread message.
	Indicates that there is a missed call.
	Indicates that the current Sound Status is the Ring only.
	Indicates that the current Sound Status is the Vibrate only.
	Indicates that the current profile mode is the Headset mode.
	Indicates that the current alarm clock is set as activated.
	Indicates the current keypad-locked state.
	Indicates that the Bluetooth is turn on.

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## 3.3 Functions of Keys

The mobile phone provides the following keys:

- **Left and right key**

The bottom line on the screen displays the functions of the Left and Right soft key.

- **Dial key**

Press it to originate a call by entering the called number or selecting a contact from the phonebook; or press it to receive an incoming call; or press it in standby state to show the latest call records

- **End/Power key**

Press it to end a call being dialed or end an ongoing call; or press it to exit the menu and return to the standby state. You can hold it for two or three seconds can power on/off the mobile phone

- **Navigation key**

Press them to scroll the options when browsing a function list. In edit state, press direction keys to navigate.

- **Center key**

Press it to confirm a selection.

- **Number keys, \* key and # key**

Press number keys 0 through 9 to input or edit state to input numbers and characters;

The # key and the \* key represent different functions in different states or different function menus.

Hold the # key up to 2s in standby state to activate or deactivate the silent mode.

Press the # key in edit state to switch between input methods.

Pressing the \* key in edit status to select a symbol.

In idle screen, you can press left soft key then \* key to lock keypad. When the keypad is locked, you can press left soft key then \* key to unlock it.

Press and hold the 0 key up for 2s to input "+" in standby interface. When the symbol "+" appears,

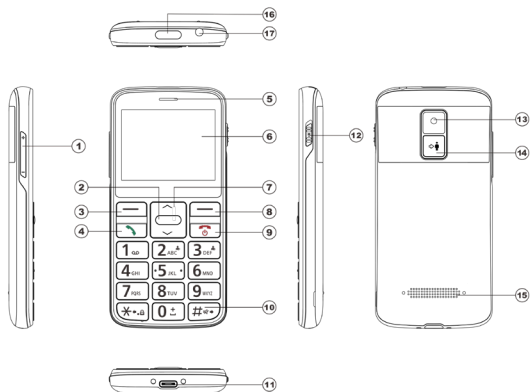
Press the 0 key quickly to input "P" or "W". "P" and "W" are used for calling the extension; "+" are used for dialing an international call.

- **1 (  ) key**

Long press it to dial the voicemail number, if you have set voicemail number.

- **2-9 key**

Long press it to dial the speed dial number, if you have set speed dial number.



<b>1</b>	<b>Side key</b>	<b>10</b>	<b>Keypad</b>
<b>2</b>	<b>Center key</b>	<b>11</b>	<b>USB jack</b>
<b>3</b>	<b>Left key</b>	<b>12</b>	<b>Torch button</b>
<b>4</b>	<b>Dial key</b>	<b>13</b>	<b>Camera</b>
<b>5</b>	<b>Earpiece</b>	<b>14</b>	<b>SOS key</b>
<b>6</b>	<b>Display</b>	<b>15</b>	<b>Speaker</b>
<b>7</b>	<b>Navigation key</b>	<b>16</b>	<b>Torch</b>
<b>8</b>	<b>Right key</b>	<b>17</b>	<b>Headphone jack</b>
<b>9</b>	<b>End/Power key</b>		

### 3.4 Technical specifications

Phone

Dimensions: (121.3 × 58.2 × 11.8 mm)

Weight: 100.3 g (With battery)

Lithium battery

Rated capacity: 1400 mAh

Talk time: Approx. 6.5 hours

Standby time: Approx. 700 hours

Please refer to their labels for other data related to the battery and the charger.

# 4 Getting started

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## 4.1 Installing the SIM Cards and the Battery

An SIM card carries useful information, including your mobile phone number, PIN (Personal Identification Number), PIN2, PUK (PIN Unlocking Key), PUK2 (PIN2 Unlocking Key), IMSI (International Mobile Subscriber Identity), network information, contacts data, and short messages data.

**Note:** After powering off your mobile phone, wait for a few seconds before removing or inserting an SIM card.

Exercise caution when operating an SIM card, as friction or bending will damage the SIM card.

Properly keep the mobile phone and its fittings such as the SIM cards beyond children's reach.

### Installation

- Hold the End key for a while to power off the mobile phone
- Push the back cover above the battery and remove it.
- Pull the left battery buckle outward and then lift the battery away.
- Insert the SIM card into the SIM card slot lightly and the gold plate of the card facing downward, till the SIM card cannot be further pushed in.
- With the metallic contacts of the battery facing the metallic contacts in the battery slot, press the battery down until it locks into place.

### Using code

The mobile phone and the SIM cards support sorts of passwords, in order to prevent the phone and the SIM cards from being misused. When you are prompted to input any of the codes mentioned below, just input the correct code and then press the OK key. If you input a wrong code, press the Right soft key to clear it and then input the correct code.

### Phone lock code

The phone lock code may be set to prevent your mobile phone from being misused. In general, this code is provided along with the mobile phone by the manufacturer. The initial phone lock code is set to 1122 by the manufacturer. If the phone lock code is set, you need to input the phone lock code when powering on the mobile phone.

### PIN

The PIN (Personal identification number, 4 to 8 digits) code prevents your SIM card from being used by unauthorized people. In general, the PIN is supplied with SIM card by the network operator. If PIN check is enabled, you need to input the PIN each time when you power on your mobile phone. The SIM card will be locked if you input wrong PIN code for three times.

Unlocking methods as follows:

- Input the correct PUK according to the screen tips to unlock the SIM card.
- Then input the new PIN and press the OK key.
- Input the new PIN again and then press the OK key.
- If the input PUK is correct, the SIM card will be unlocked and the PIN will be reset.

**Note:** The SIM card will be locked if you input wrong PIN code for three times. To unlock the SIM card, you need to input the PUK. In general, the PUK can be obtained from the network operator.

### PUK

The PUK code (Personal Unlocking Key) is required to change a blocked PIN. It is supplied with SIM card. If not, contact your network operator. If you input wrong PUK code for 10 times, SIM card will be invalid. Please contact the network operator to replace the SIM card.

### Barring code

A barring code is required for setting the call barring function. You can obtain this code from the network operator to set the call barring function.

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## 4.2 Installing Memory Card

The memory card is a pluggable mobile storage card inside the mobile phone. To install the memory card, insert the card into the card slot. To remove the memory card, take the card out.

### Note:

1. The mobile phone cannot automatically identify the memory card being inserted when the mobile phone is powered on. You must power off the mobile phone and then power it on, so that the phone can identify the memory card.
2. The memory card is a miniature object. Keep it out of the reach of children for fear that children swallow it!

## 4.3 Charging the Battery

The lithium battery delivered with the mobile phone can be put into use immediately after being unpacked.

- Your mobile phone can monitor and display the battery state.
- Normally the remaining energy of the battery is indicated by the battery level icon at the upper right corner of the display screen.
- When the battery energy is insufficient, the mobile phone prompts "Battery low". If you have set an alert tone, an alert tone will be given off when the battery level is too low.
- A charging animation appears when the battery is being charged. When the charging is complete, the animation disappears.

### Using a travel adapter:

- Install the battery into the mobile phone before charging the battery.
- Connect the adapter of the travel charger with the charging slot in the mobile phone.

### Ensure that the adapter is fully inserted.

- Insert the plug of the travel charger to an appropriate power outlet.
- During the charging, the battery level grids in the battery icon keep flickering till the battery is fully charged.
- It is normal when the battery is become hot during the charging period.
- The battery icon does no longer flicker when the charging process ends.

**Note:** Ensure that the plug of the charger, the plug of the earphone, and the plug of the USB cable are inserted in the right direction. Inserting them in a wrong direction may cause charging failure or other problems.

Before the charging, ensure that the standard voltage and frequency of the local mains supply match the rated voltage and power of the travel charger.

### Using the Battery

The performance of a battery is subject to multiple factors: radio network configuration, signal strength, ambient temperature, chosen functions or settings, phone fittings, and the voice, data or other application mode you choose to use.

To guarantee the optimal performance of your battery, please stick to the following rules:

- Use only the battery provided by the vendor. Otherwise, damages or even injuries could be caused during the charging.
- Power off the mobile phone before removing the battery.
- The charging process lasts a longer time for a new battery or a battery not in use for long. If the battery voltage is too low to enable the mobile phone to be powered on, charge the battery for a longer time. In this case, the battery icon does not flicker until a long time after the battery enters the charge status.
- During the charging, ensure the battery is placed in a room temperature environment or in an environment close to room temperature.
- Immediately stop using the battery if the battery produces odor, overheats, cracks, distorts or



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has other damage, or if the electrolyte leaks.

- The battery wears out with use. A longer charging time is required as the battery is put into use for a long time. If the total conversation duration decreases but the charging time increases even though the battery is properly charged, purchase a standard battery from the OEM or use a battery approved by our company. Using any poor-quality fittings will cause harm to your mobile phone or even incur danger!

**Note:** To guarantee your personal safety and protect the environment, do not litter the battery! Return the old battery to the mobile phone manufacturer or place it in specified battery reclamation areas. Do not litter any battery with other rubbish.

**Warning:** Short-circuits of the battery may cause explosion, fire, personal injury or other severe consequences!

## 4.4 Powering On/Off the Mobile Phone

Hold the End key for a while to power on the mobile phone. A power-on animation appears on the display screen.

Input the phone lock code and press the OK key if the mobile phone prompts you to input the phone lock code. The original code is 1122.

Input the PIN and press the OK key if the mobile phone prompts you to input the PIN.

The PIN is provided by the network operator for new opening SIM card.

Enter the standby interface.

To power off the mobile phone, hold the End key for a while.

## 4.5 Linking to the Network

After the SIM card and the mobile phone are successfully unlocked, the mobile phone automatically searches for an available network. After finding a network, the mobile phone enters the standby state. When the mobile phone is registered in the network, the name of the network operator is displayed on the screen. Then you can dial or receive a call.

## 4.6 Dialing Calls

In the standby interface, press number keys to input the area code and the telephone number, and then press the Dial key to dial a call. To end the call, press the End key.

- Dialing an international call  
Hold the 0 key and input "+". Then input the country code, the area code and the telephone number. Finally, press the Dial key.
- Dialing a call to a number in the phonebook  
Enter the phonebook and use the up or down direction keys to find the telephone number you want to call.  
Press the Dial key. The mobile phone automatically dials the chosen telephone number.
- Redialing the last number  
In the standby interface, press the Dial key to show the dialed calls.  
Press the up or down direction keys to select a number you want to dial and then press the Dial key.
- Answering incoming calls  
Press the Dial key or the Left soft key to answer an incoming call.  
Press the End key to end the current conversation.  
To reject an incoming call, press the End key or the Right soft key.

**Note:** If the calling number exists in the phonebook, the mobile phone will present the name of the caller. If the caller cannot be identified, the mobile phone will present the calling number only. You can answer an incoming call when using a function list or browsing the phonebook.

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- Using options during a conversation

Select Options during a conversation to pause, end the ongoing call, browse the phonebook, view information, set the mute, or perform other operations. For details, refer to the menu guide.

## 4.7 Using the Headset

It would enter headset mode automatically when you insert headset to the slot. Make sure of inserting it at the bottom of the slot, or you can't use it normally.

# 5 Input method

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This mobile phone provides multiple input methods, including English input and numeric input. You can use these input methods when editing the phonebook, short messages and files.

## 5.1 Icons for Input Methods

After you enter an edit window such as a window for editing the phonebook, short messages, an icon is displayed to indicate the current input method:

Numeric input: "123"

English input in upper case: "ABC"

English input in lower case: "abc"

## 5.2 To Shift Entry Methods

Press the # key to switch between input methods.

## 5.3 Numeric Input

You can input numbers with the numeric input method. Press a number key to input the corresponding number.

## 5.4 English input and numeric input:

The keyboards for English input and numeric input are defined in the following table:

Key	Character or Function	Remarks
Number key 1	. , - ? ! ' @ : # \$ / _ 1	
Number key 2	ABCabc2	
Number key 3	DEFdef3	
Number key 4	GHIghi4	
Number key 5	JKLjkl5	
Number key 6	MNOmno6	
Number key 7	PQRSpqrs7	

<b>Number key 8</b>	<b>TUVtuv8</b>	
<b>Number key 9</b>	<b>WXYZwxyz9</b>	
<b>Number key 0</b>	<b>0</b>	
<b>* key</b>	<b>Press it to input a symbol</b>	
<b># key</b>	<b>Press it to switch between input methods</b>	
<b>Up direction key</b>	<b>Press it to move to the left</b>	
<b>Down direction key</b>	<b>Press it to move to the right</b>	
<b>End key</b>	<b>Press it to return to the standby interface</b>	

English input:

- Each key is used to represent multiple characters. Quickly and continuously press a key till the character you want appears. Input the next character after the cursor moves.
- Press the # key to switch between input methods
- To input a blank, switch to the English input mode (in upper or lower case) and then press number key 0.
- Clear wrong inputs, press the Right soft key.

## 5.5 Inserting a Symbol

Press the \* key to enter the Select symbol interface, use direction keys to select a symbol you want.

# 6 Using the Menus

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## 6.1 Phonebook

The mobile phone can store up to 300 telephone numbers. The number of telephone numbers that an SIM card can store depends on the storage capacity of the SIM card. The telephone numbers stored in the mobile phone and in the SIM cards form a phonebook.

**Add new contact:**

Create new contact to phonebook.

After selecting a telephone number in the phonebook, select Options to perform the following operations:

**View:**

View the content of the telephone number.

**Sent text message:**

Sent text message to the selected number.

**Call:**

Call the current number of the SIM.

**Edit:**

Edit the selected number and name.

**Delete:**

Delete the telephone number from the phonebook.

**Copy:**

Duplicate the telephone number from the mobile phone to the SIM card or from the SIM card to the mobile phone.

**Caller groups:**

You can assign contacts to the default caller groups. For each group, you can edit group name.

**Phonebook settings:**

To set some parameters of phonebook.

## 6.2 Messaging

If the short message memory is full, a blinking message icon appears on the top of the screen. To normally receive short messages, you need to delete some of the existing short messages. If the destination user has received the short message you sent and the short message delivery report function is activated, the phone will give off a message report alert tone.

**Write message**

Access this menu to create a text message.

**Inbox**

Received messages are listed in this menu.

**Drafts**

Draft messages are listed in this menu.

**Outbox**

The messages which are sent failed are stored in the Outbox.

**Sent messages**

Sent messages are listed in this menu.

**SMS settings**

This function enables you to set the default features about the text message and service message.

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## 6.3 Call center

### Call history

#### Missed calls

You can view a list of the latest missed calls.

**Note:** When the mobile phone indicates that some calls are missed, you can select View to enter the missed calls list. Navigate to a missed call and then press the Dial key to dial the number that originated that call.

#### Dialled calls

You can view the latest dialled calls. Choose Dialled calls and then select a dialled call to delete, save, dial, or send a short message to it.

#### Received calls

You can view the latest received calls. Choose Received calls and then select a received call to delete, save, dial, or send a short message to it.

#### Delete call logs

You can delete the latest call records. Choose Delete call logs and then select to delete all the numbers in the call history, or delete only the numbers in the missed calls list, the dialled calls list or the received calls list.

#### Call timers

Choose Call timers to view the last call time, the total time of all dialled calls, the total time of all received calls and the total time of call history, and/or to reset all the time.

### Call settings

#### SIM call settings

- **Call waiting:** After you choose Activate, the mobile phone will contact the network. A moment later, the network will make a response and send a message to acknowledge your operation. If the call waiting function is activated, the network will alert you and the mobile phone screen will display the incoming call number if others are calling you while you are already in a conversation.
- **Call divert:** this network function enables you to forward incoming calls to another number you have previously specified.
- **Call barring:** The call barring function enables you to bar calls as needed. When setting this function, you need to use a network barring code, which can be obtained from the network operator. If the code is wrong, an error message will be prompted on the screen. After selecting a call barring option, continue to select Activate or Deactivate. The mobile phone will prompt you to input the call barring code and then contact the network. A moment later, the network will make a response and send the operation results to the mobile phone.
- **Line switching:** Switch to Line 1 or Line 2. By default, Line 1 is used.

**Note:** If you choose Line 2, dialing may fail. This depends on the implementation of the network operator.

#### Advanced settings

- **Auto redial:** Set it to On or Off to enable or disable auto redial. If you set Auto redial to On, the mobile phone will automatically redial the number a moment later if the called party does not reply. The number of auto redial times can be set to a maximum of 10. In the auto redial period, you cannot dial other numbers. To end the auto redial process, press the End key.

**Note:** This function requires support from the network operator to which the SIM card is registered.

- **Call time reminder:** To set single or periodic tone in a call to make you know the time.
- **Answer mode:** Select an answer mode as per your need.

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## 6.4 Camera

The phone is provided with a camera, which supports the photographing functions. Roll the phone to align the camera to the picture and then press Center key to capture photos. Pictures will be saved in the file system of the phone or the memory card. In the capture interface, you can press up or down direction key to zoom in and zoom out.

## 6.5 Multimedia

- **Image viewer**

You can view the pictures or images through this function.

- **Video recorder**

This function enables you to record video. In the capture interface, you can press up or down direction key to zoom in and zoom out, press Center key to capture videos clip. The video recording can not be done without a memory card.

## 6.6 Organizer

- **Alarm**

Five alarm clocks are set but deactivated by default. You can activate one, multiple or all of them as needed. For each alarm clock, the ringing date and the ringing time can be set.

- **World clock**

By pressing left/right navigation keys to change time zone on world map, you can check time and date of different cities and regions.

- **Bluetooth**

With Bluetooth, you can make a wireless connection to other compatible devices, such as mobile phones, computers, headsets and car kits.

- **SIM toolkit**

SIM toolkit service is the tool kit of SIM card. This phone supports the service function .The specific items are depended by SIM card and network. Service menu will be auto added to the phone menu when supported by network and SIM card.

## 6.7 File manager

The phone provides a certain space for users to manage files and supports the memory card. The capacity of the memory card is selectable. You can use the file manager to conveniently manage various directories and files on the phone and the memory card.

Choose **File manager** to enter the root directory of the memory. The root directory will list the default folders, new folders and user files. When the mobile phone is powered on for the first time or when you have not changed the directory, the root directory contains the default folders only.

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## 6.8 Settings

### • Profiles

The mobile phone provides multiple user profiles, so that you can customize some settings to adapt to the specific events and environments.

Customize the user profiles according to your preference and then activate the user profiles.

The user profiles fall into four scenarios: General, Silent, Meeting and Outdoor.

When you insert an earpiece to the mobile phone, the mobile phone automatically enters the Headset mode. There is no option for activating the Headset mode on the screen. For details on operation, refer to General.

#### **Activate**

Select Activate to activate the selected mode.

#### **Customize**

After choosing one of the above four modes, select Customize to edit the following items:

Alert type, Ring type, incoming call ringtone, ringtone volume, message ringtone, keypad tone, etc.

\*The preset melodies in the product are used with permission of ©2014 Copyright of Vision Inc.

#### **Reset**

Use this function to restore factory settings of user profile.

**Note:** If you remove the battery from the mobile phone or if the battery energy was exhausted a long time ago, you may need to reset the date and time when re-inserting the battery or powering on the mobile phone after recharging.

• **Flight mode:** You can turn off all wireless connections so your phone can't cause any interference with sensitive equipment in a plane or a hospital.

### • Phone settings

**Time and date:** set the date format, the time format, and detail time of the location.

**Note:** If you remove the battery from the mobile phone or if the battery energy was exhausted a long time ago, you may need to reset the date and time when re-inserting the battery or powering on the mobile phone after recharging.

#### **Language:**

Select the display language for the mobile phone.

#### **Writing language:**

Select writing language as needed.

#### **Display:**

Users can access this item to set wallpaper, Show date and time, etc.

#### **Dedicated keys :**

You can set shortcuts for those functions you often use.

#### **Auto update time:**

Activate/deactivate this function as per your need.

#### **Font size:**

Users can choose the font size for the large font or theme default font.

#### **Misc. setting:**

You can set the LCD backlight brightness and time.

#### • **One key for help:**

You can turn on or off this function, and set the help content, help number etc.

#### • **Network settings:**

Contact the network operator to obtain the following network services.

#### **Network selection:**

Set Network selection mode to Automatic or Manual. Automatic is recommended. When

Network selection mode is set to Automatic, the mobile phone will prefer the network where the

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SIM card is registered. When Network selection mode is set to Manual, you need to select the network operator's network where the SIM card is registered.

**GPRS transfer pref.:**

Select Call first or Data first.

● **Security settings**

This function provides you with related settings about safety use.

**SIM security:**

● **PIN lock:**

To activate PIN lock, you need to input the correct PIN code. If you set PIN lock to on, you need to input the PIN each time you power on the mobile phone. In the case you input a wrong PIN for three consecutive times; you need to input the PIN Unlocking Key (PUK). The PUK is used to unlock and change the locked PIN. To obtain the PUK, contact the network operator.

● **Change PIN:**

To change PIN code of SIM card.

● **Change PIN2:**

To change PIN2 code of SIM card.

**Phone security**

● **Phone lock:**

The function enables you to lock/unlock the phone. Entering password to switch on the phone. Password is required when the phone is locked. The initial password is 1122.

● **Change password:**

To change phone password.

**Screen auto lock**

The function enables you to lock/unlock the keypad. Setting the auto locking time that 15s, 30s, 1min or 5mins is available. The keypad will be auto locked with no operation during the period.

**Privacy protection**

In this menu, you can set password-protected on the need of menu. For the menu open the private protection, need to input a phone password when you entered. Enter the other module which has opened the function, do not input the password again until return to idle to give up operation of authority.

● **Restore Settings:**

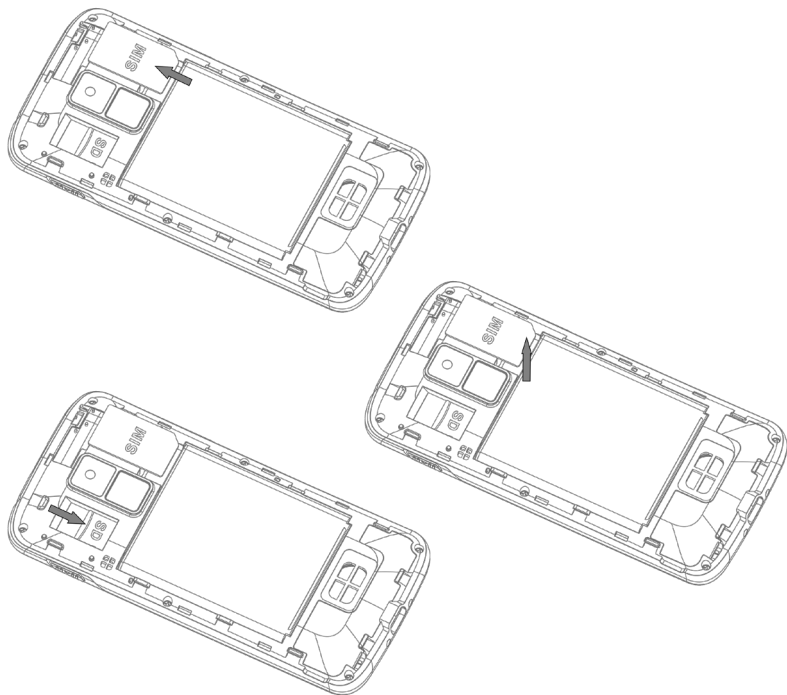
Use this function to restore factory settings. The preset password is 1122.



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## 7 Appendix

### Appendix 1: How to handling the battery and SIM card



## Appendix 2: Troubleshooting

If you find exceptions when operating the mobile phone, restore the factory settings and then refer to the following table to solve the problem. If the problem persists, contact the distributor or service provider.

Fault	Cause	Solution
SIM card error	The SIM card is damaged.	Contact your network service provider
	The SIM card is not in position.	Check the SIM card
	The metal face of the SIM card is polluted.	Clean the SIM card with a clean cloth
Poor received signal quality	Signals are obstructed. For instance, radio waves cannot be effectively transmitted nearby a high building or in a basement.	Move to a place where signals can be effectively transmitted
	Line congestions occur when you use the mobile phone in high-traffic hours	Avoid using the mobile phone in hightraffic hours
The mobile phone cannot be powered on	The battery energy is exhausted.	Charge the battery
Calls cannot be dialed	Call barring is activated	Cancel call barring
The mobile phone cannot connect the network	The SIM card is invalid	Contact your network service provider
	The mobile phone is not in a service area of the GSM network	Move to the network operator's service area
	The signal is weak	Move to a place where the signal quality is high
The battery cannot be charged	The charging voltage does not match the voltage range indicated on the charger	Ensure the charging voltage matches the voltage range indicated on the charger
	An improper charger or battery is used	Use the charger or battery specially designed for the mobile phone
	Poor contact	Ensure the charger plug is in good contact with the mobile phone
"Battery error" display	Environmental temperature when charging is too high or too low	Check the environmental temperature Charging conditions: 5 °C – 35 °C
	Battery failure (deterioration)	The standard number of times of charging is 300 times

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### Appendix 3: For your future reference

We recommend keeping a record of the following information to assist with any repair under warranty:

Serial No. (found on the carton box or in the battery compartment)	Date of purchase
Name and address of dealer	



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## Appendix 4: Sales department

Sales department/Vertrieb/Organisation Commerciale/Klantenservice/Försäljning/  
Salgsavdeling/Maahantuonti/Departamento comercial/Τμήμα Πωλήσεων/Salgskontor/  
Departamento de ventas/Ufficio Vendite/Satış bölümü

### ■ Belgique/België

Panasonic Belgium is a branch of  
Panasonic Marketing Europe GmbH

---

Brusselsesteenweg 502  
1731 Zellik  
Belgium  
Hagenauer Strasse 43, D-65203 Wiesbaden  
VAT BE0867.862.661 RPM/RPR Brussels

### ■ France

Panasonic France, une Succursale  
de Panasonic Marketing Europe GmbH

---

1 à 7 Rue du 19 Mars 1962  
92238 Gennevilliers Cedex, France  
Service Consommateurs:  
08 92 35 05 05 (0,34 € la minute)  
Service après-vente:  
01 70 48 91 73 (numéro non surtaxé)

### ■ Deutschland

Panasonic Deutschland eine Division der  
Panasonic Marketing Europe GmbH

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Winsbergring 15  
22525 Hamburg  
www.panasonic.de

### ■ Italia

Panasonic Italia - branch office of  
Panasonic Marketing Europe GmbH

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Viale dell'Innovazione  
3-20126 Milano  
servizio clienti: 02-67 07 25 56  
www.panasonic.it

### ■ España

Panasonic España, Sucursal de  
Panasonic Marketing Europe GmbH

---

WTC Almeda Park  
Plaza dela Pau s/n Edificio 8 planta baja  
08940 Cornellà de Llobregat, Barcelona  
Número del teléfono de atención al cliente:  
902 15 30 60  
www.panasonic.es

### ■ Nederland

Panasonic Netherlands

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Europalaan 28E  
5232 BC 's-Hertogenbosch  
Tel: 073 6 402 802  
Reparaties:  
www.panasonic.nl

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**Sales department/Értékesítési osztály/Dział sprzedaży/Obchodné zastúpenie/Obchodní zastoupení/Kontakt/Prodajni oddelek/Departamentul de vânzări/Отдел „Продажи“/Odeljenje prodaje/Оддел за продажба/Departamenti i shitjeve/Prodajni odjel**

#### ■ Magyarország

Panasonic Marketing Europe GmbH.  
South-East Europe Fióktelep

1117 Budapest, Alíz u.4. Office Garden III.  
Tel.: +36 80 201 006  
E-mail: Customer.Budapest@eu.panasonic.com  
Web: www.panasonic.hu

#### ■ Česká republika

Panasonic Marketing Europe GmbH,  
organizační složka Česká republika

Thámova 289/13 (Palác Karlín)  
186 00 Praha 8  
Telefon: +420 236 032 511  
Centrální fax: +420 236 032 411  
Zákaznická linka: +420 236 032 911  
E-mail: panasonic.praha@eu.panasonic.com  
Web: www.panasonic.cz

#### ■ Slovenská republika

Panasonic Marketing Europe GmbH,  
organizačná zložka Slovenská republika

Štúrova 11  
811 01 Bratislava, Slovenská republika  
Telefón: +421 2 2062 2211  
Fax: +421 2 2062 2311  
Zákaznícka linka: +421 2 2062 2911  
E-mail: panasonic.bratislava@eu.panasonic.com  
Web: www.panasonic.sk

#### ■ Romania

Panasonic Marketing Europe GmbH, Wiesbaden,  
Germania, Sucursala București, Romania

B-dul Preciziei, Nr. 24, West Gate Park,  
Clădirea H3, Etaj 2, Sector 6,  
București, 062204, Romania  
Telefon: +40 21 316 31 61  
Fax: +40 21 316 04 46  
E-mail: suport.clienti@eu.panasonic.com  
Web: www.panasonic.ro

#### ■ Polska - Dystrybucja w Polsce

Panasonic Marketing Europe GmbH, Oddział  
w Polsce (Spółka z ograniczoną odpowiedzialnością)

ul. Wołoska 9A, 02-583 Warszawa

#### ■ Produkt Panasonic













Produkt objęty jest E-Gwarancją Panasonic.  
Prosimy o zachowanie dowodu zakupu.  
Warunki gwarancji oraz informacje o produkcie  
są dostępne na stronie [www.panasonic.com/pl](http://www.panasonic.com/pl)  
lub pod numerem telefonu:  
801 003 532 - numer dla połączeń z sieci stacjonarnej  
22 295 37 27 - numer dla połączeń z sieci stacjonarnej  
oraz komórkowej

#### ■ Hrvatska

Panasonic Marketing Europe GmbH  
– Podružnica Zagreb

B. Bušića 27  
10 020 Zagreb, Hrvatska

## Appendix 5: Graphical symbol

Symbol	Explanation	Symbol	Explanation
	1) Alternating current (A.C.)		7) Class P equipment (equipment in which protection against electric shock rely on Double Insulation or Reinforced Insulation.)
	2) Direct current (D.C.)		8) "ON" (power)
	3) Protective earth		9) "OFF" (power)
	4) Protective bonding earth		10) Stand-by (power)
	5) Functional earth		11) "ON"/"OFF" (power; push-push)
	6) For indoor use only		12) Caution, risk of electric shock

### Panasonic Corporation

1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, Japan  
[www.panasonic.com](http://www.panasonic.com)

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