



**SONY**<sup>®</sup>

3-864-804-11 (1)

# *Digital Portable Cellular Telephone*

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Operating Instructions



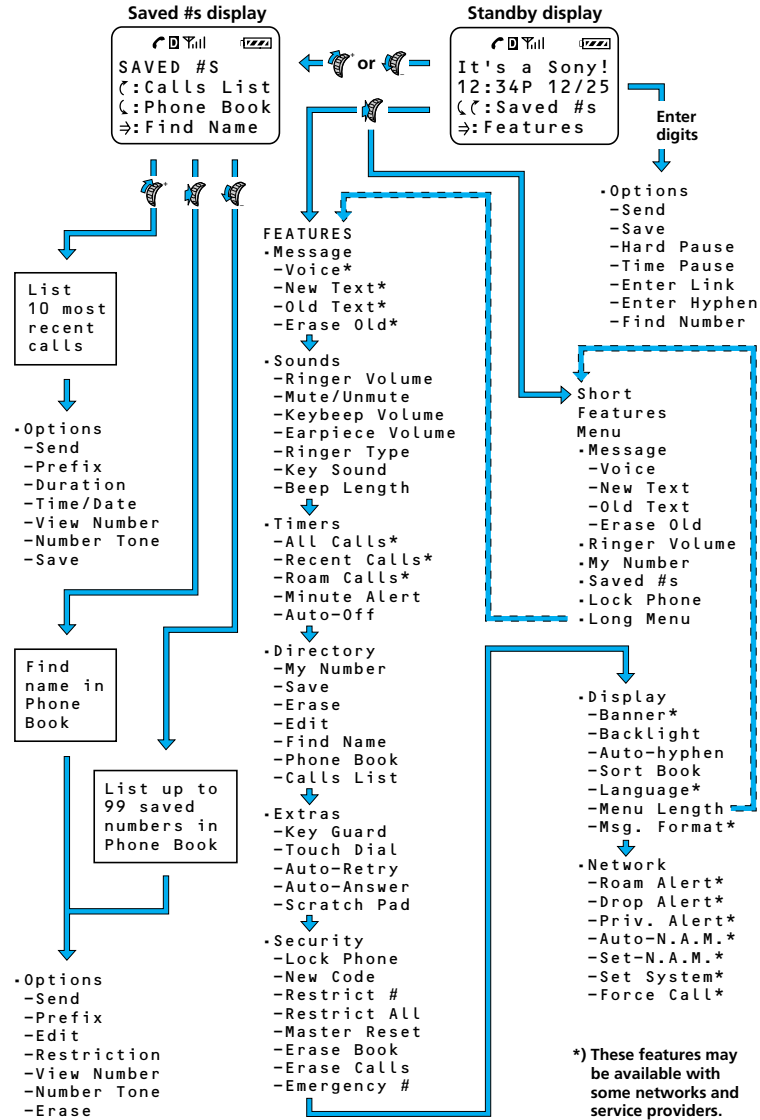
D · W A V E  
**Zuma**

*CM-Z200*



# Welcome to the CM-Z200

## Menu map

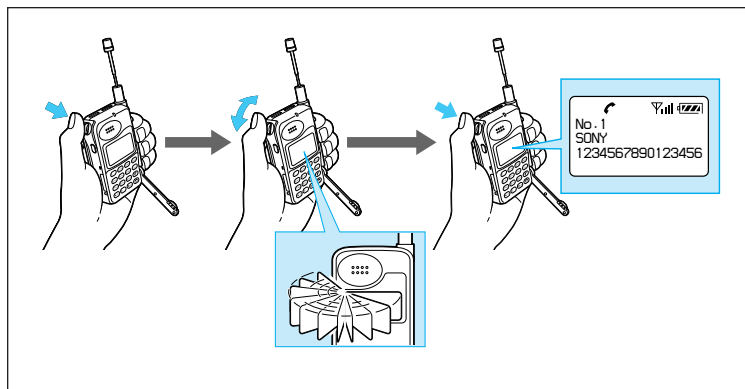


## 1.2



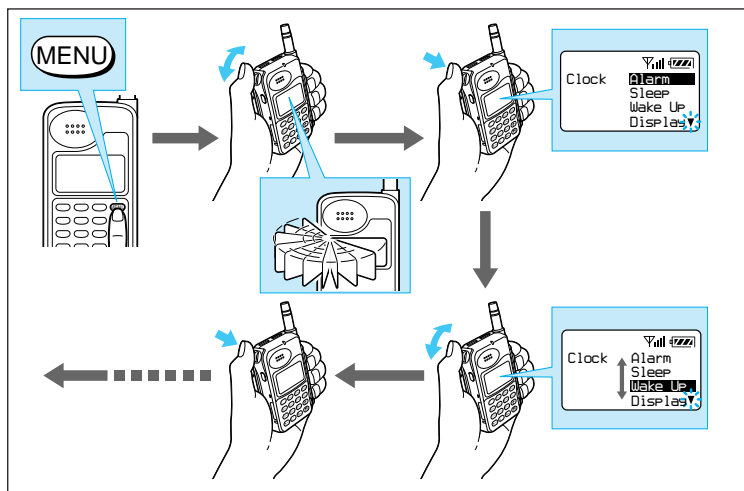
### Easy dialing

You can easily make a call using a number from the Phone Book or the Calls List. First, turn the Jog Dial either up or down one time to search phone numbers. Then scroll down to view saved numbers in the Phone Book or scroll up to view your most recently called numbers in the Calls List. Simply open the arm microphone to call the number you choose.



### Easy menu access

You can easily access your phone's settings through the Features menu. Press the Jog Dial again to view the options of each menu item.



1.3



Before operating the CM-Z200 portable cellular/PCS telephone, please read this manual thoroughly and retain it for future reference. If your usage includes in-vehicle operation, it is recommended that you refer to the Installation/Connections/Operation manual for the optional accessory kits.

**DISPOSAL OF LITHIUM ION BATTERY**

LITHIUM ION BATTERY. DISPOSE OF PROPERLY.

You can return your unwanted lithium ion batteries to your nearest Sony Service Center or Factory Service Center.

**Note:** In some areas the disposal of lithium ion batteries in household or business trash may be prohibited.

For the Sony Service Center nearest you call 1-800-222-SONY (United States only).  
For the Sony Factory Service Center nearest you call 416-499-SONY (Canada only).



**WARNING**

To prevent fire or shock hazard, do not expose the unit to rain or moisture.  
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

**FCC CAUTION STATEMENT**

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

**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. Refer to these numbers whenever you call your dealer regarding this product.

Model No.: CM-Z200                      Serial No.: \_\_\_\_\_

**1.4**





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Getting Started

Basic Calling Operations

Advanced Calling Operations

Features Menu

Additional Information





## Rules and regulations

The U.S. Federal Communications Commission and the Industry Canada regulate cellular/PCS telephone service in their respective countries. It is important for you, the cellular/PCS telephone user, to observe the applicable regulations when operating your cellular/PCS telephone in either country. In addition to these U.S. and Canadian federal regulations, you may be bound also by certain state, provincial, territorial, and local rules and regulations, as well as by your cellular/PCS carrier's tariff (the rates, terms, and conditions of its service). If you wish to use your cellular/PCS telephone in both the U.S. and Canada, please consult with your System Operator.

Furthermore, you should remember that your cellular/PCS telephone is a *radiotelephone*, — i.e., it combines both wireline technology, as used in your home or office telephone system, *and* radio technology — and that the scope of regulations and precautions is therefore broader than the scope of regulations and precautions relating to wireline-only telephone usage.

Some of the major points of consideration are set out below. Please note, however, that these "Rules and Regulations" and "Safety Precautions" sections do not constitute legal advice, and are intended merely for general information purposes. If you have specific questions, please contact your cellular/PCS carrier (System Operator).

**License** — If your home system is in the U.S., you do not require a separate license to operate your cellular/PCS telephone; obtaining a cellular/PCS telephone access number is sufficient to register you as a user. If your home system is in Canada, a separate license is required; your carrier will assist you

in the licensing process. If you wish to use your cellular/PCS telephone on both sides of the border, please contact your cellular/PCS carrier (System Operator).

**Equipment modifications** — The U.S. Federal Communications Commission has type-approved the model of cellular/PCS telephone which you have purchased, and has allocated a specific frequency range for cellular/PCS service. No changes or adjustments are to be made to your cellular/PCS telephone.

The radio equipment shall be made available for inspection upon request by representatives of the FCC or licensees.

**Denial of service** — A cellular/PCS carrier may deny service temporarily or terminate service for violation of any government regulations or violation of its tariff.

**Privacy** — As a telephone user, you have come to assume a certain standard of privacy when you place or receive a telephone call via the traditional wireline systems. However, because cellular/PCS telephones utilize radio transmissions to effect calls, the same standard cannot always be assured. While it is unlawful for any unauthorized person to divulge or use any information obtained from intercepting or "listening in on" conversations intended for others, you should not assume that your conversation is completely secure. Commercially available scanning equipment can permit a third party to monitor the radio channels used for cellular/PCS telephone calls.

**Interference** — No person shall interfere with, or cause interference to, any radio communication or signal.

### 1.6



## Safety precautions

### IMPORTANT

**For safe and efficient operation of your phone, observe these guidelines.**

Your dual mode (analog/digital CDMA) hand-held portable cellular/PCS telephone uses both analog frequency modulation (FM) technology and digital Code Division Multiple Access (CDMA) technology. CDMA is a newer radio frequency (RF) technology than the FM technology that has been used for radio communications for decades.

Your dual mode portable cellular/PCS telephone is a radio transmitter and receiver. When the phone is ON, it receives and sends out radio frequency (RF) energy. The phone operates in the frequency range of 824 MHz to 894 MHz. When you use your phone, the cellular/PCS system handling your call controls the mode of operation (analog or digital CDMA) and the power level at which your phone transmits. In the analog mode, the power is continuously transmitted at a level that can range from about 6 mW to about 600 mW. In the digital CDMA mode, the power is transmitted as a digitally coded waveform at a rate varying from 100 Hz to 800 Hz. The average power can range from about 0.01  $\mu$ W to about 500 mW.

### Exposure to radio frequency energy

Research on health effects from RF energy has focused for many years on FM radio technology. That research and studies regarding newer radio technologies, such as CDMA, have found no credible scientific evidence that adverse health effects result from the use of cellular/PCS telephones.

The Institute of Electrical and Electronics Engineers (IEEE) in 1991, and The American National Standards Institute (ANSI) in 1992, updated the 1982 ANSI Standard for safety levels with respect to human exposure to RF energy. Over 120 scientists, engineers, and physicians from universities, government health agencies, and industry, reviewed the available research and developed this updated Standard. In March 1993, the U.S. Federal Communications Commission (FCC) proposed the adoption of this updated Standard.

The design of your phone complies with this updated Standard. Of course, if you want to limit RF exposure even further than the updated ANSI Standard, you may choose to control the duration of your calls and operate your phone in the most power efficient manner.

### Efficient phone operation

For your phone to operate at the lowest power level consistent with satisfactory call quality, please observe the following guidelines:

Your phone has an extendable antenna; extend it fully whenever possible for maximum efficiency.

Hold the phone as you would any other telephone. While speaking directly into the mouthpiece, position the antenna up and over your shoulder.

Do not hold the antenna when the phone is in use. Holding the antenna affects call quality and may cause the phone to operate at a higher power level than needed.



### Antenna care and replacement

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Replace a damaged antenna immediately. Take your phone to an authorized service center for repair.

Use only the supplied or approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, and violate FCC regulations.

### Driving

Check the laws and regulations on the use of cellular/PCS telephones in the areas where you drive. Always obey them. Also, when using your phone while driving, please:

- pay full attention to driving;
- 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 energy. However, RF energy from cellular/PCS telephones may affect some electronic equipment.

RF energy may affect improperly installed or inadequately shielded electronic operating and entertainment systems in motor vehicles. Check with the manufacturer or its representative to determine if these systems are adequately shielded from external RF energy. You should also check with the manufacturer of any equipment that has been added to your vehicle.

### Medical devices

Consult the manufacturer of any personal medical devices (such as pacemakers, hearing aids, etc.) 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 regulations posted in the areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

### Aircraft

Turn your phone OFF before boarding any aircraft.

- Use it on the ground only with crew permission.
- Do not use in the air.

To prevent possible interference with aircraft systems, 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 interference with aircraft communication systems, FCC regulations prohibit using your phone while the plane is in the air.

### Children

Do not allow children to play with your phone. It is not a toy. Children could hurt themselves or others (by poking themselves or others in the eye with the antenna, for example). Children also could damage the phone or make calls that increase your telephone bill.



## 1.8







### **Blasting areas**

To avoid interfering with blasting operations, turn your unit OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Construction crews often use remote control RF devices to set off explosives.

### **Potentially explosive atmospheres**

Turn your phone OFF when in any area with a potentially explosive atmosphere. It is rare, but your phone or its accessories could generate sparks. Sparks in such areas could cause an 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 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; and any other area where you would normally be advised to turn off your vehicle's engine.

Do not transport or store flammable gas, liquid, or explosives in the compartment of your vehicle which contains your phone or accessories.

In the United States, 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.

In Canada, vehicles using liquefied petroleum gas (such as propane or butane) must comply with the Canadian Gas Association (CAN/CGS-B149.2). For a copy of this standard, contact the Canadian Standards Association, 178 Rexdale Blvd., Etobicoke, ON M9W 1R3, Attn.: Standard Sales Department.





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# Unpacking your phone

Carefully unpack your phone and check the contents using this list. If there is something missing, please contact your nearest Sony dealer.

Getting Started

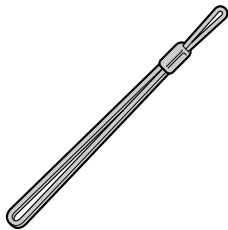
CM-Z200 Telephone (1)



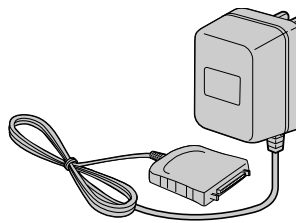
QN-029BPL Li-Ion Battery Pack (1)



Hand Strap (1)

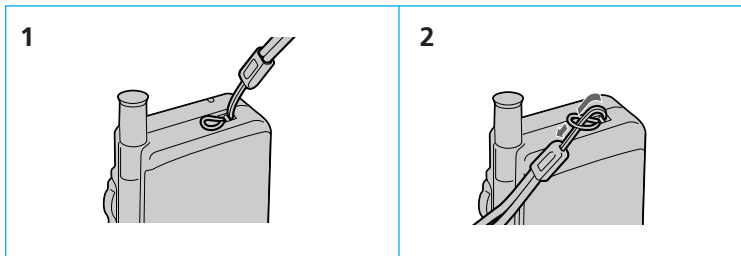


QN-001AC AC Adapter (1)



**Note:** Different AC adapters may be provided outside North America.

## Attaching the hand strap

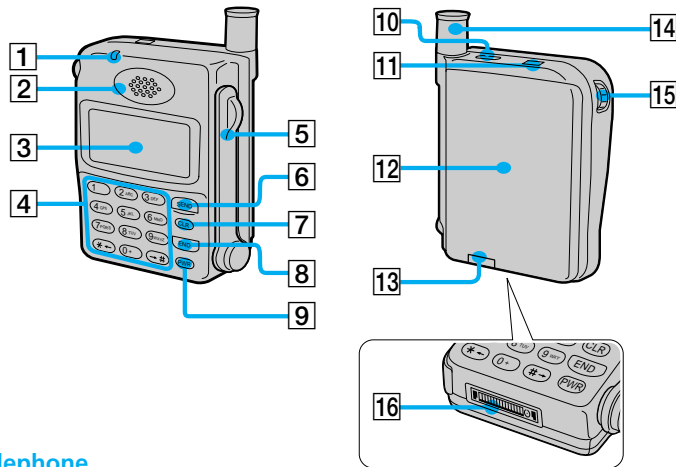


2.1




## Looking at your phone

For further information, refer to the page numbers indicated in parentheses ( ).



### Telephone

- 1 Call alert indicator (XX)**  
Lights when there is an incoming call.
- 2 Earpiece**
- 3 Display (XX)**
- 4 Number buttons and  $\leftarrow$ / $\rightarrow$  buttons (XX, XX, XX)**  
Use the number buttons to enter letters and numbers. Press and hold a number button for touch dialing. Use the  $\leftarrow$ / $\rightarrow$  buttons to move the cursor when you are entering letters.
- 5 Arm microphone**  
Open to make/receive a call. Close to end a call.
- 6  $\rightarrow$  button (XX to XX)**  
Press to make outgoing calls and to receive incoming calls when the arm microphone is open.
- 7  $\leftarrow$  (clear) button (XX, XX)**  
Press to clear the last or all entered digits on the display, or to exit the current mode of operation.
- 8  $\rightarrow$  button (XX)**  
Press to end calls. Also cancels operations and returns the phone to standby mode.
- 9  $\rightarrow$  (power) button (XX)**  
Press to turn the phone on or off.
- 10 Ringer speaker**  
Allows ringer sounds to be heard.
- 11 Hand strap attachment (XX)**
- 12 Battery pack (XX)**
- 13 Battery pack release tab (XX)**  
Slide up to remove the battery pack.
- 14 Antenna (XX)**
- 15 Jog Dial™ navigator (XX)**  
Push and turn for menu navigation and for changing settings on menus. In this manual, the  icon indicates that you should push the Jog Dial navigator in towards the center of the phone.
- 16 Connector (XX)**  
Use to connect the phone to either the AC adapter or to one of the other accessories available for your phone.

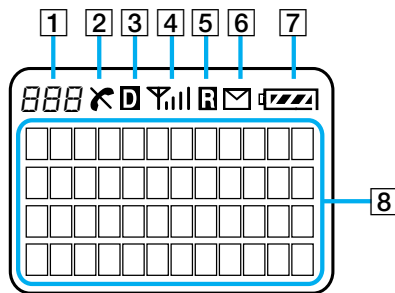
## 2.2



## Display

The top row of the display contains icons that inform you of the current status of your phone. The bottom four rows of the display are for text such as phone numbers, names, and operational prompts. Each row displays a maximum of 12 characters.

Getting Started



**1 Short character display**

Shows settings such as the number of the currently displayed Menu, as well as Phone Book and Calls List memory locations.

**2 (in-use) / (out-of-service) icon (XX, XX, XX)**

The in-use icon appears during a call. A slash through the in-use icon appears when no signal is received. You cannot make or receive calls when the out-of-service icon is visible.

**3 (digital) icon**

Appears when your phone is receiving a digital signal.

**4 (signal strength) icon (XX)**

Tells you the approximate strength of the signal being received.

**5 (roam) icon (XX)**

Appears when you are roaming outside your home service area.

**6 (message) icon (XX)**

Appears when you have new text or voice mail messages pending. The icon flashes if the new message is urgent.

**7 (battery) icon (XX, XX)**

Shows the approximate amount of charge power remaining in the battery pack. Recharge the battery pack before it is fully discharged.

**8 Character display**

Prompts various actions, and then displays the results. It also shows phone numbers and names.



## 2.3





## Specifications

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### Frequency range

Transmit: 824 to 849 MHz

Receive: 869 to 894 MHz

### Dimensions

3.6 × 2.4 × 1.0 inches (h/w/d)

(not including antenna)

(91 × 62 × 26 mm)

### Mass (weight)

Approx. 5.3 oz (150 g)

(including battery)

### RF power output

CDMA mode: 0.01 μW to 500 mW

AMPS mode: 6 mW to 600 mW

### Operational temperature

-22°F to +140°F

(-30°C to +60°C)

(excluding battery pack)

Design and specifications are subject to change without notice.

Additional Information

6.3