

Portable CD Player

Operating Instructions

About area code
The area code of the player you purchased is shown on upper left of the bar code label on the package.
For accessories supplied with your player, check the area code of your model and refer to "Supplied accessories" toward the end of this manual.



D-E225

Sony Corporation ©2000 Printed in China



For the customers in the USA and Canada

This mark is available in the USA and Canada only
RECYCLING NICKEL-CADMIUM BATTERIES

Nickel-Cadmium batteries are recyclable. You can help preserve our environment by returning your unwanted batteries to your nearest point for collection, recycling or proper disposal.



Note: In some areas the disposal of nickel-cadmium batteries in household or business trash may be prohibited.

RBRC (Rechargeable Battery Recycling Corporation) advises you about spent battery collection by the following phone number. Call toll free number: 1-800-822-8837 (United States and Canada only)

Caution: Do not handle damaged or leaking nickel-cadmium batteries.

For the customers in the USA and Canada
DISPOSAL OF NICKEL METAL HYDRIDE BATTERY. NICKEL METAL HYDRIDE BATTERY. DISPOSE OF PROPERLY.

You can return your unwanted nickel metal hydride batteries to your nearest Sony Service Center or Factory Service Center.

Note: In some areas the disposal of nickel metal hydride batteries in household or business trash may be prohibited.

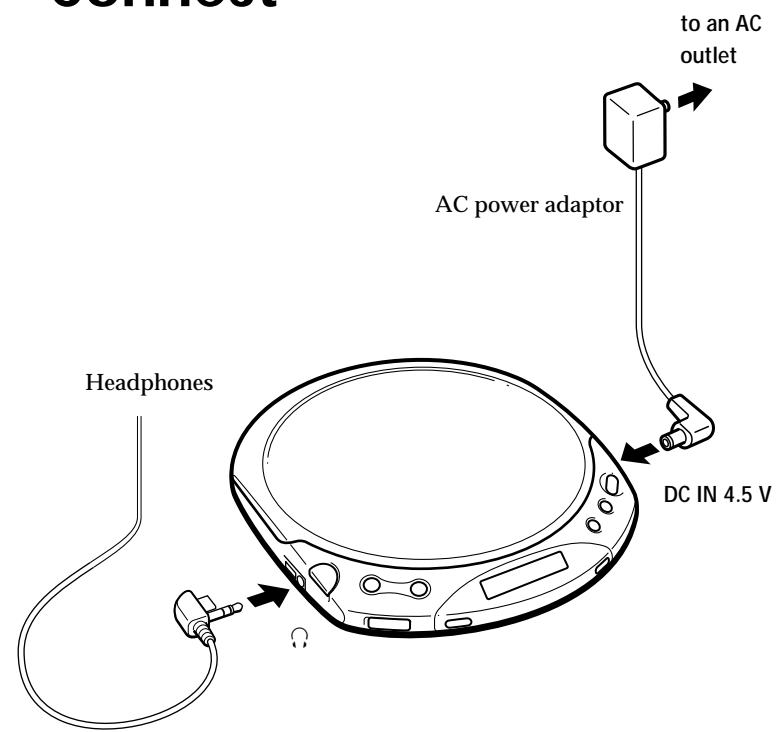
For the Sony Service Center nearest you call 1-800-222-SONY (United States only)
For the Sony Factory Service Center nearest you call 416-499-SONY (Canada only)

Caution: Do not handle damaged or leaking nickel metal hydride battery.

Playing a CD right away!

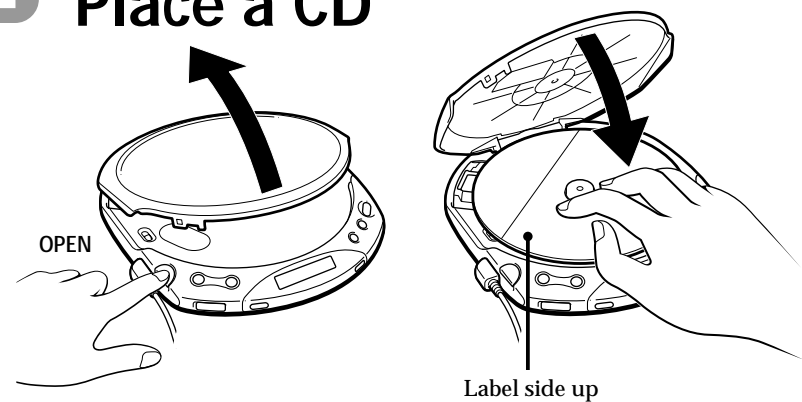
If you want to play a CD right now, choose to use your CD player on house current. Other choices are the following three: rechargeable batteries, dry batteries (see "Power Sources" on the reverse side) and car battery.

1 Connect



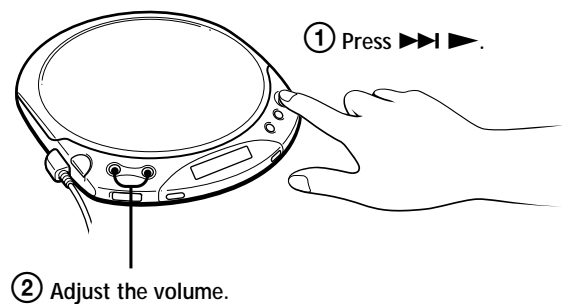
For models supplied with the remote control
• Connect the plug of the headphones/earphones to the remote control.
• Connect the headphones/earphones to the remote control firmly. A loose connection may cause noise during playback.

2 Place a CD



- 1 Press OPEN to open the lid.
- 2 Fit the CD to the pivot.
- 3 Close the lid.

3 Play



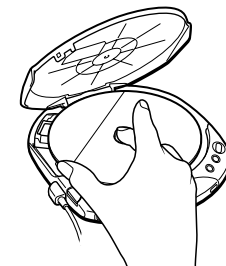
2 Adjust the volume.

To stop play, press ■/CHG.

To	Press
Find the beginning of the current track (AMS*)	◀◀ once
Find the beginning of previous tracks (AMS)	◀◀ repeatedly
Find the beginning of the next track (AMS)	▶▶ once
Find the beginning of succeeding tracks (AMS)	▶▶ repeatedly
Go forward quickly	Hold down ▶▶
Go backwards quickly	Hold down ◀◀

* AMS = Automatic Music Sensor

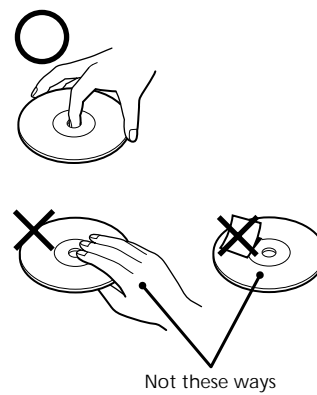
To remove the CD
Remove the CD while pressing the pivot.



Notes on display
• When you press ▶▶▶, the total number of tracks in the CD and the total playing time appear.
• During play, the track number and the elapsed playing time of the current track appear.

Notes on handling CDs

- To keep the CD clean, handle it by its edge. Do not touch the surface.
- Do not stick paper or tape onto the CD.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts. Do not leave the CD in a car parked under direct sunlight.

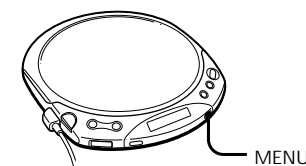


About CD-Rs
This CD player is compatible with CD-Rs but playback capability may vary depending on the quality of the disc, the recording device and application software.

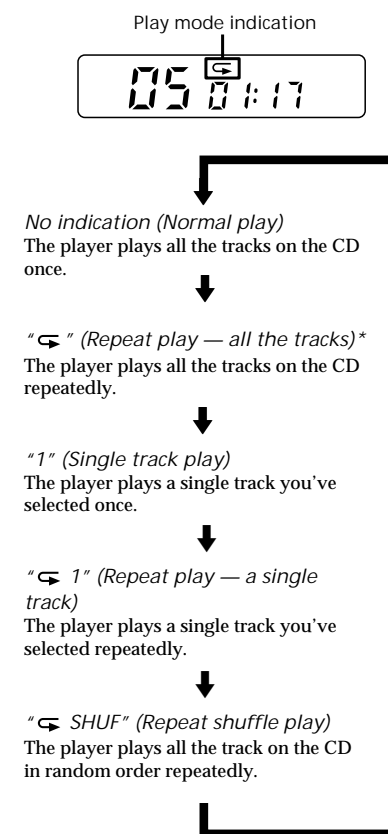
Other Operations

Selecting play mode

You can enjoy the following five play modes: "Normal play", "Repeat play — all the tracks", "Single track play", "Repeat play — a single track" and "Repeat shuffle play".



Press MENU during play.
Each time you press the button, the play mode indication in the display changes as follows:

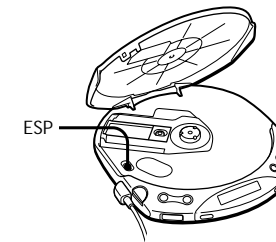


* During Repeat play, you can locate the first track after the last track by pressing ▶▶▶ repeatedly. You can also locate the last track after first track by pressing ◀◀◀ repeatedly.

Using other functions

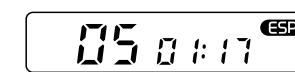
To maximize the skip protection performance (ESP MAX)
The typical ESP (Electronic Shock Protection) function minimizes skipping by using a buffer memory that stores music data and plays it back in the event of a shock. The ESP MAX system is an extremely sophisticated technology. Due to the light weight and improved anti-shock characteristics of the optical block, this system recovers from the skipping much quicker than conventional technology such as ESP or ESP2.*

* Although ESP MAX provides excellent protection, skipping may occasionally occur.



Set ESP to "ON."
The ESP indication appears.

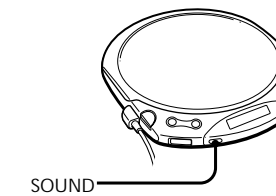
To release the ESP MAX function, set ESP to "OFF."



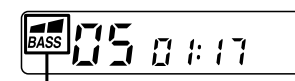
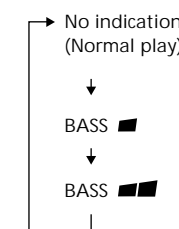
Notes

- Playing may stop when the CD player gets a strong shock even with the ESP MAX function on.
- You may hear a noise or sound may skip:
 - when listening to a dirty or scratched CD.
 - when the player receives continuous shock or
 - when using poor-quality CD-Rs or if there is a problem with the recording device or application software.

To enjoy more powerful bass sound (Digital MEGA BASS)
You can emphasize the bass-boosted sound.



Press SOUND to select "BASS ■■" or "BASS ■■."



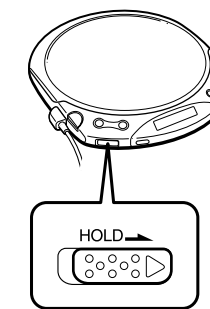
The selected sound mode is displayed.

"BASS ■■" enhances the bass sound more than "BASS ■■."

Note

- If the sound is distorted when using the SOUND function, turn down the volume.

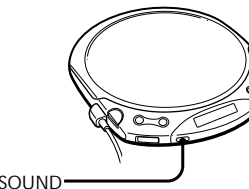
To lock the buttons
You can lock your CD player against any accidental operations.



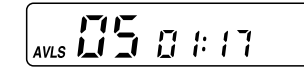
Slide HOLD in the direction of the arrow.
When you press any button, "Hold" appears in the display and you cannot operate the CD player.

To unlock, slide HOLD in the opposite direction of the arrow.

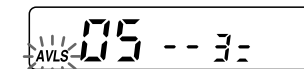
To protect your hearing (AVLS)
The AVLS (Automatic Volume Limiter System) function keeps down the maximum volume to protect your ears.



Hold down SOUND until "AVLS" appears in the display.



If you turn up the volume to "3±", you cannot turn up the volume any more.



If you want to turn up the volume to more than "3±", hold down SOUND until "AVLS" disappears from the display.

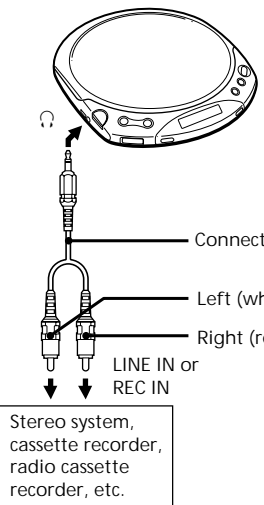
* For the customers in France
This level is set to "5±."

Note

- If you use the sound function and the AVLS function at the same time, sound may be distorted. If this happens, turn down the volume.

Connecting to other stereo equipment

You can listen to the CD through other stereo equipment or record a CD on a cassette tape. Refer to the instruction manual of the other equipment for details. Before making connections, turn off each piece of equipment.



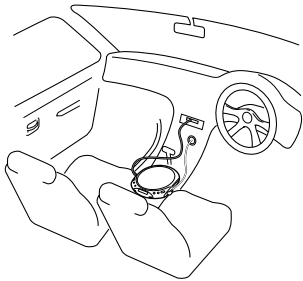
Notes

- Before you play the CD, turn down the volume of the connected equipment so as not to damage the connected speakers.
- If you turn up the volume to more than "8±", the sound may be distorted.

Continue to the reverse side →

Playing a CD in a car

You can use your player in a car as illustrated below.



To connect your CD player to a car cassette deck, you need the following accessories:

- Car connecting pack
 - Car battery cord
- You cannot use the car mount plate for this CD player. Refer to the instruction manual of each accessory for details.

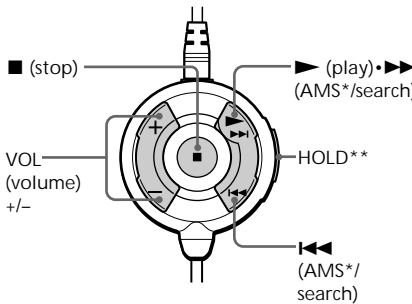
Notes

- Do not put the CD player on the dashboard.
- Do not leave the CD player in a car parked under sunlight.
- If the sound is distorted, press SOUND until the BASS indication disappears from the display.
- Use a Sony car connecting pack for reducing noise.
- Use only the car battery cord listed in the optional accessories. If you use any other car battery cord, smoke, fire or malfunction may occur.

Switched ignition function (when using the car battery cord) With this feature, your CD player stops automatically when you turn off the engine of the car. (This function is not possible with some cars depending on the model.)

Using the supplied remote control

You can use the remote control as the wired remote control.



* Automatic Music Sensor

**When you are not using the remote control, slide HOLD in the direction of the arrow to prevent any accidental operations. To unlock, slide HOLD back.

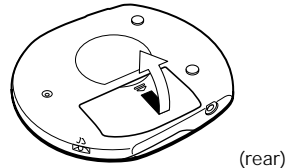
►Power Sources

Using the rechargeable batteries

Charge the rechargeable batteries before using them for the first time. You can use only the following rechargeable batteries for your CD player.

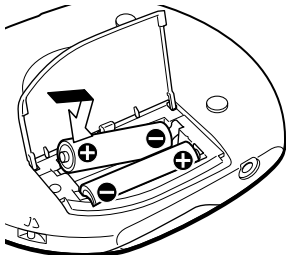
- NC-WMAA
- NH-WM2AA

- 1 Open the battery compartment lid.

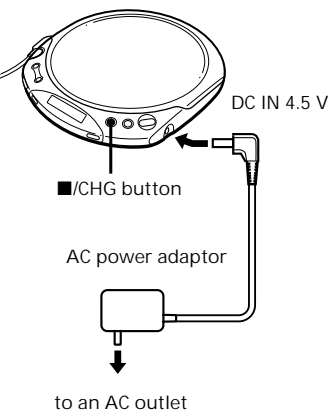


(rear)

- 2 Insert two rechargeable batteries by matching the ⊕ to the diagram in the battery compartment and close the lid.



- 3 Connect the AC power adaptor to the DC IN 4.5 V jack of your CD player and an AC outlet, then press ■/CHG to start charging.



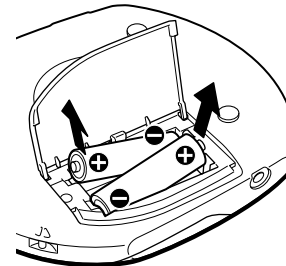
The CD player charges the batteries. The "CHG" indicator turns on in the display, and the indicator sections of light up in succession. When the batteries are completely charged, the "CHG" and indicators turn off.

If you press ■/CHG after the charge has already been completed, the indicator flashes and "Full" appears in the display.

- 4 Disconnect the AC power adaptor.

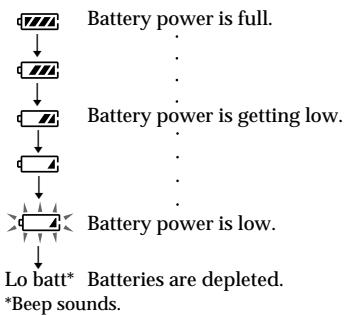
To remove the rechargeable batteries

Remove the batteries as illustrated below.



When to charge the rechargeable batteries

You can check the remaining power of the batteries in the display.



Lo batt* Batteries are depleted. *Beep sounds.

To keep the original battery capacity for a long time, charge the batteries only when they are completely depleted.

Notes

- The indicator sections of roughly shows the remaining battery power. One section does not always indicate one-fourth of the battery power.
- Depending on operating conditions, the indicator sections of may increase or decrease.

When to replace the rechargeable batteries

If the battery life becomes shorter by about half, replace the batteries with new rechargeable batteries.

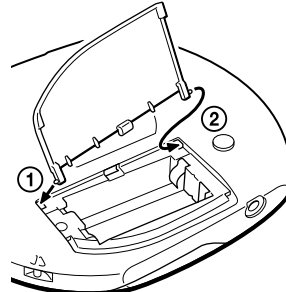
Note on the rechargeable batteries If the battery is new or has not been used for a long time, it may not be charged completely until you charge and discharge it several times.

Note on carrying the rechargeable batteries

Use the supplied battery carrying case to prevent unexpected heat. If the rechargeable batteries and the metallic objects are contacted, heat or fire may occur due to a short circuit.

To attach the battery compartment lid

If the battery compartment lid is detached by an accidental drop, excessive force, etc., attach it as illustrated below.



Using the dry batteries

Use only the following dry battery type for your CD player:

- LR6 (size AA) alkaline batteries

Note

Be sure to remove the AC power adaptor when using the dry batteries.

- 1 Open the lid of the battery compartment.

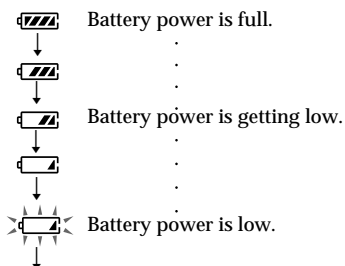
- 2 Insert two LR6 (size AA) alkaline batteries by matching the ⊕ to the diagram in the battery compartment.

To remove the batteries

Remove the batteries in the same way as rechargeable batteries.

When to replace the batteries

You can check the remaining power of the batteries in the display.



Lo batt* Batteries are depleted. *Beep sounds.

When the batteries are depleted, replace both batteries with new ones.

Battery life (approx. hours)(EIAJ*)

Battery life varies depending on how the player is used.

	ESP OFF	ESP ON
Two NC-WMAA (charged for about 3 hours**)	8	8
NH-WM2AA (charged for about 8 hours**)	14.5	14
Two Sony alkaline batteries LR6(SG)	25	24

* Measured value by the standard of EIAJ (Electronic Industries Association of Japan). (When the unit is used on a flat and stable place.)

** Charging time varies depending on how the rechargeable battery is used.

►Additional Information

Precautions

On safety

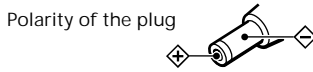
- Should any solid objects or liquid fall into the unit, unplug it and have it checked by qualified personnel before operating it any further.
- Do not put any foreign objects in the DC IN 4.5 V (external power input) jack.

On power sources

- When you are not using the CD player for a long time, disconnect all power sources from the player.

On the AC power adaptor

- Use only the supplied AC power adaptor. If your player is not supplied with it, use AC-E45HG AC power adaptor. Do not use any other AC power adaptor.



- To unplug the AC power adaptor from the wall outlet, grasp the adaptor itself, do not pull its cord.

On rechargeable batteries and dry batteries

- Do not charge the dry batteries.
- Do not throw the batteries into fire.
- Do not carry the batteries with coins or other metallic objects. It can generate heat if the positive and negative terminals of the battery are accidentally contacted by a metallic object.
- Do not mix rechargeable batteries with dry batteries.
- Do not mix new batteries with old ones.
- Do not use different types of batteries together.
- When the batteries are not to be used for a long time, remove them.
- If battery leakage occurs, wipe off any deposit in the battery compartment, and install new batteries. In case the deposit adheres to you, wash it off thoroughly.

On the CD player

- Keep the lens of the CD player clean and do not touch it. If you do so, the lens may be damaged and the player will not operate properly.
- Do not put any heavy object on top of the player. The unit and the CD may be damaged.
- Do not leave the CD player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, unlevelled surface, or in a car with its windows closed.
- If the CD player causes interference to radio or television reception, turn off the CD player or move it away from the radio or television.
- Do not wrap the CD player in a cloth or blanket during use as it may cause malfunction or serious accidents.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this CD player. Attempting to do so may damage the CD player. Do not use such discs.

On headphones/earphones

Road safety

Do not use headphones/earphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage

Avoid using headphones/earphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

Maintenance

To clean the casing

Use a soft cloth slightly moistened in water or a mild detergent solution. Do not use alcohol, benzene or thinner.

Troubleshooting

Should any problem persist after you have made these checks, consult your nearest Sony dealer.

The CD does not play or "no cd SC" appears in the display though a CD is placed in the unit.

- The CD is dirty or defective.
- Insert the CD with the label side up.
- Moisture condensation has occurred. Leave the unit aside for several hours until the moisture evaporates.
- Close the lid of the unit and the battery compartment firmly.
- Make sure the batteries are inserted correctly.
- Connect the AC power adaptor to a wall outlet securely.
- The CD-R was not finalized. Finalize the CD-R with the recording device.
- There is a problem with the quality of the CD-R, recording device, or application software.

When you press , "00" appears in the display for a moment, and disappears. The CD does not play.

- Rechargeable batteries are used up completely. Charge the batteries.
- Replace the batteries with new LR6 (size AA) alkaline batteries.

No sound, or noise is heard.

- Connect the plugs firmly.
- Plugs are dirty. Clean the plugs with a dry soft cloth periodically.

"Hi dc l n" appears in the display.

- Use only the supplied AC power adaptor or AC power adaptor AC-E45HG (not supplied).

"Hal d" appears in the display when you press a button.

- The buttons are locked. Slide HOLD back.

The indication appears in the display when you press a button.

- Rechargeable batteries are used up completely. Charge the batteries.
- Replace the batteries with new LR6 (size AA) alkaline batteries.

The battery life is short.

- Manganese batteries are used. Use alkaline batteries.
- Replace the batteries with new ones.

The volume is limited to a certain level even if you attempt to turn it up.

- AVLS function keeps down the volume. Hold down SOUND until "AVLS" disappears from the display.

Playback starts from the point you stopped.

- The resume function is working. Open the lid of the CD player; or remove all power sources, then insert the batteries or connect the AC power adaptor again.

Specifications

CD player

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs

Wavelength: λ = 780 nm

Emission duration: Continuous

Laser output: Less than 44.6 μW (This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

Error correction

Sony Super Strategy Cross Interleave Reed Solomon Code

D-A conversion

1-bit quartz time-axis control

Frequency response
20 - 20 000 Hz: ±1dB (measured by EIAJ CP-307)

Output (at 4.5 V input level)

Headphones (stereo minijack)
Approx. 12 mW + approx. 12 mW at 16 Ω

General

Power requirements

For the area code of the model you purchased, check the upper left side of the bar code on the package.

- Two Sony NC-WMAA rechargeable batteries: 2.4 V DC
- Sony NH-WM2AA rechargeable batteries: 2.4 V DC
- Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack): U/U2/CA2/E92/MX2/TW2/BR3 model: 120 V, 60 Hz
CED/CEX/CET/CEW/CE7/EE/EE1/E13/G5/G6/G7/G8/BR1 model: 220 - 230 V, 50/60 Hz
CEK/3CE7 model: 230 - 240 V, 50 Hz
AU2 model: 240 V, 50 Hz
JE/W/E33/EA3 model: 100 - 240 V, 50/60 Hz
HK2 model: 220 V, 50/60 Hz
ARI/CNA model: 220 V, 50 Hz

Dimensions (w/h/d) (without projecting parts and controls)

Approx. 130.0 × 26.3 × 150.5 mm (5 1/8 × 1 1/8 × 6 in.)

Mass (excluding accessories)

Approx. 205 g (7.3 oz)

Operating temperature
5°C - 35°C (41°F - 95°F)

Supplied accessories

For the area code of the model you purchased, check the upper left side of the bar code on the package.

- AC power adaptor (1)
- Headphones with remote control (1)
- Rechargeable batteries (2)
- Battery carrying case (1)

Design and specifications are subject to change without notice.

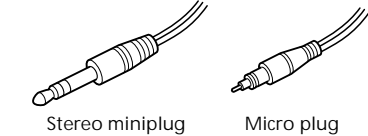
For US customers

AC power adaptor supplied is not intended to be serviced. Should the AC power adaptor cease to function in its intended manner, during the warranty period, the adaptor should be returned to your nearest Sony Service Center or Sony Authorized Repair Center for replacement, or after warranty period, it should be discarded.

Optional accessories

- Car connecting pack CPA-9C
- Car battery cord with car connecting pack DCC-E34CP
- Car battery cord DCC-E345
- Active speaker system SRS-A21
- Connecting cord RK-G129, RK-G136
- AC power adaptor AC-E45HG
- Rechargeable batteries NH-WM2AA
- Stereo headphones* MDR-EX70LP

* When using optional headphones, use only headphones with stereo miniplugs. You cannot use headphones with micro plugs.



Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information about the accessories in your country.

This warranty is valid only in the United States.

SONY

LIMITED WARRANTY Portable Audio

Sony Electronics Inc. ("Sony") warrants this Product (including any accessories) against defects in material or workmanship as follows:

- LABOR: For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labor charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labor charges.
- PARTS: In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year. After 90 days from the date of purchase, labor for removal and installation is available from Sony authorized service facilities or a Sony Service Center at your expense.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is void only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, Sony Electronics Inc. has established telephone numbers for frequently asked questions:

To locate the service center nearest you, or for service assistance or resolution of a service problem, or for product information or operation, call:

Sony Direct Response Center
1-800-222-7669
or write to:
Sony Direct Response Center
12451 Gateway Blvd.
Fort Myers, FL 33913

For an accessory or part not available from your authorized dealer, call:

1-800-488-SONY (7669)