

FDL-3105

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model and serial numbers are located on the front and rear. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. FDL-3105 Serial No. _____

color watchman

Features

- The LCD (Liquid Crystal Display) provides clear pictures and natural facial color tones.
- It is used as an AV (audio/video) monitor.
- The voltage synthesizer tuning system allows easy tuning.
- Grip and stand are provided for convenient use.
- The new power circuit and fluorescent lamp provide long battery life (approx. 5 hours with alkaline batteries).

Sony Corporation ©1993 Printed in Japan

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

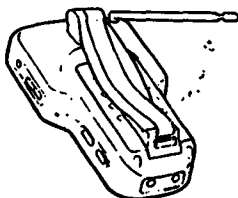
* The graphical symbols are on the rear enclosure.

Power Sources

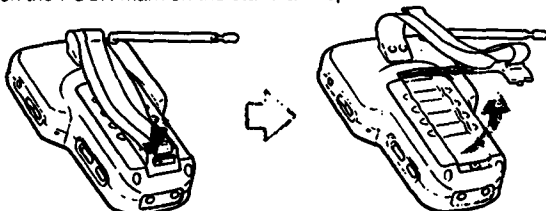
Batteries

Insert six size AA (LR6) batteries (not supplied).

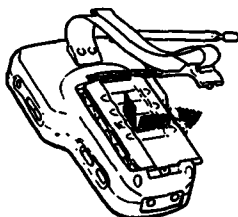
- 1 Raise the antenna from the unit.



- 2 Push the PUSH mark on the stand and open.

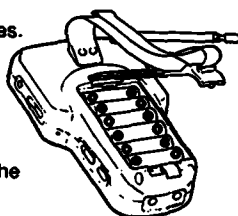


- 3 Slide the battery compartment lid.

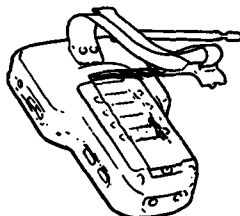


- 4 Insert the batteries with correct polarities.

Lay the ribbon under the batteries.



- 5 Reinstall the lid.



- 6 Replace the stand and antenna.

To remove the batteries

Pull the ribbon. The batteries will pop out of the compartment.

Battery replacement

When the batteries become weak, the unit's protective function will automatically cause the picture to disappear. When you are listening to the radio, the sound may be distorted. When you are listening to an FM stereo program in stereo through the headphones, the sound may become monaural. In this case, replace all the batteries with new ones.

Battery life

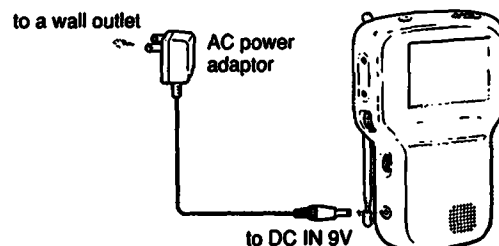
You can use approximately following hours continuously.

Battery	TV	Radio
Alkaline	5	45

The battery life becomes short in a cold place.

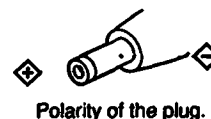
Using on House Current (120 V AC)

Use the supplied AC power adaptor.



Notes

- Use only the supplied AC power adaptor. Do not use any other AC power adaptor.



Polarity of the plug.

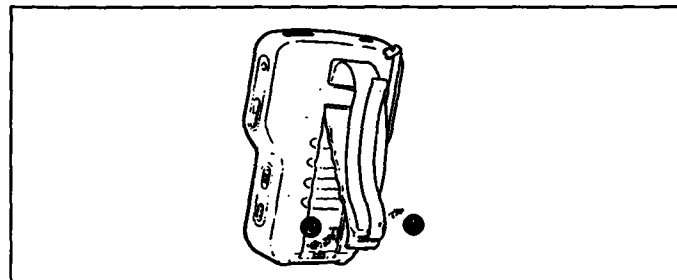
- When the unit is not to be used for a long period of time, remove the batteries to avoid unit damage caused by battery leakage and corrosion.

Car Battery

Connect the Sony DCC-E190L car battery cord (not supplied) to the DC IN 9V jack. Use only recommended car battery cord. Do not use any other car battery cord.

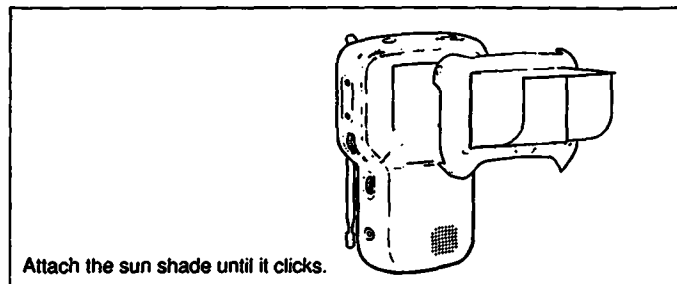
How to Use the Stand

Push the PUSH mark and open the stand.



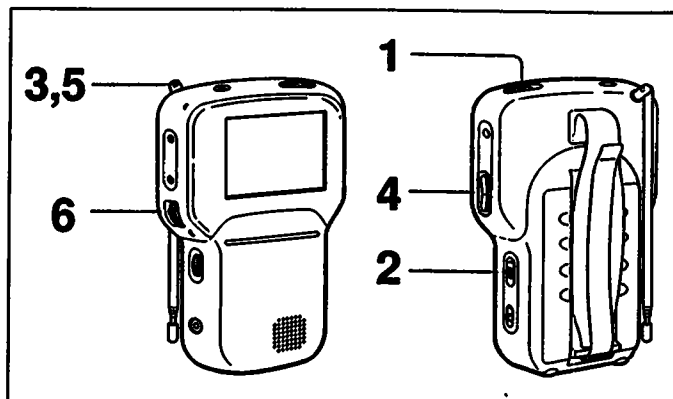
Attaching the Sun Shade

When you cannot view the picture clearly owing to reflected light, use the supplied sun shade.



Attach the sun shade until it clicks.

Watching the TV



- 1** Select the band, VHF or UHF.



- 2** Set the POWER switch to TV.
The unit starts tuning automatically.



- 3** Pull out the antenna fully.

- 4** Tune in the desired channel.



- 5** Adjust the length and direction of the antenna.
For UHF, the receiving may be better with the short antenna.

- 6** Adjust the volume.



To turn off the TV

Set the POWER switch to OFF, and fold down the antenna.

If the channel changes

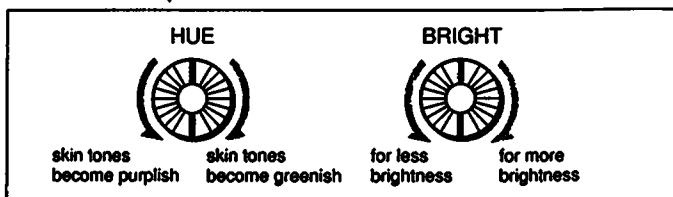
If the power is momentarily lost because of mechanical shock, or if the unit has passed through a tunnel, the channel may change. If this happens, tune in the desired channel again with CHANNEL +/-.

To indicate the current channel

Press the CH (channel) CALL button.

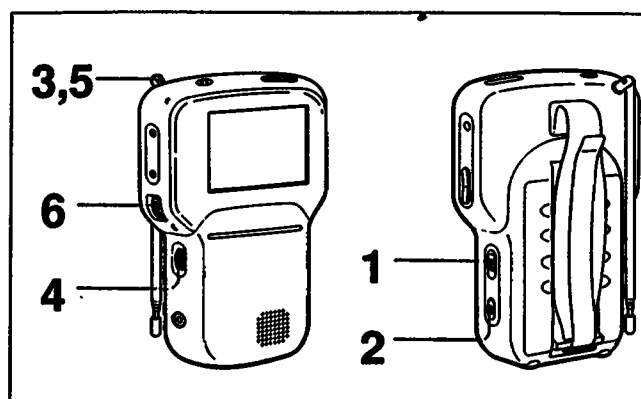
The line (green for VHF, red for UHF) appears at the position of the current channel.

Picture Adjustment



For your safety, do not watch the TV nor operate the controls while driving.

Listening to the Radio



- 1** Set the POWER switch to RADIO.



- 2** Select the band, AM or FM.



- 3** Pull out the antenna fully for FM reception.

- 4** Tune in the desired station.



- 5** For FM reception, adjust the length and direction of the antenna.
For AM reception, rotate the unit.

- 6** Adjust the volume.



To turn off the radio

Set the POWER switch to OFF and fold the antenna.

Note

Be sure to turn off the radio after use, especially when listening with the headphones. This prevents unnecessary battery wear.

To listen with the headphones

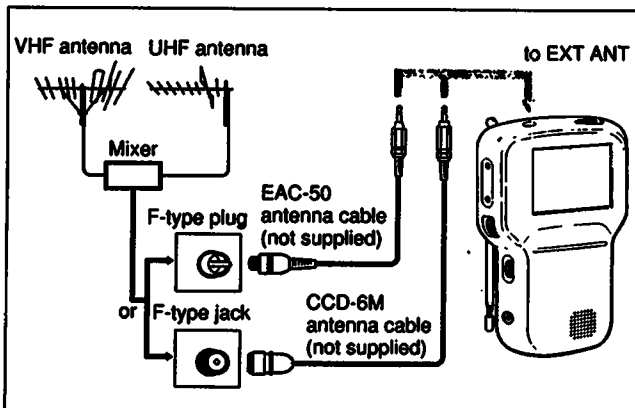
To listen to the FM stereo programs in stereo, connect the headphones with the stereo miniplug (not supplied) to the ϕ jack.

Connecting an External Antenna

TV receiving will improve.

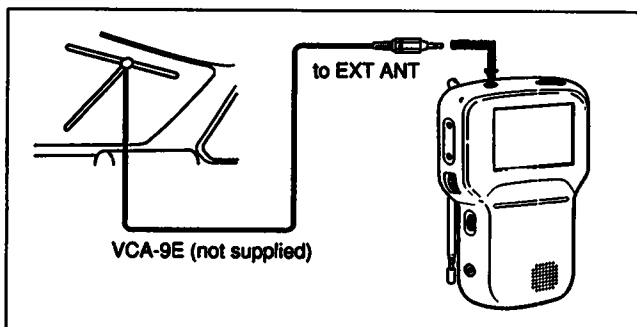
Connecting the Outdoor Antenna

To connect, use EAC-50 antenna cable (not supplied) for F-type plug or CCD-6M antenna cable (not supplied) for F-type jack.



- To connect CCD-6M to the F-type plug, use EAC-40 F-type joint (not supplied).
- If you need to prepare the end of the antenna cable, use EAC-33 antenna connector (not supplied).

Connecting the Car Antenna



Using as a Monitor

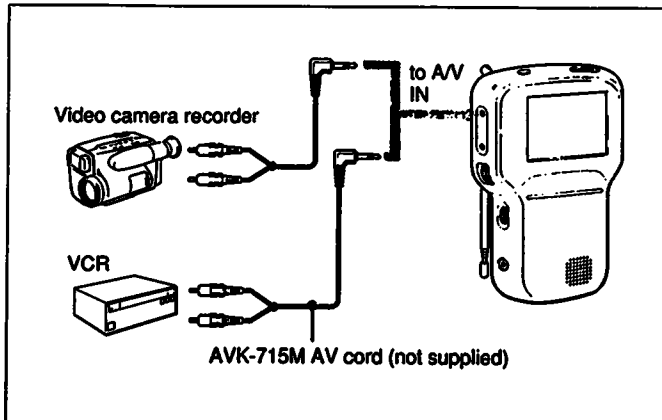
You can use the unit as a color monitor for your VCR or video camera recorder.

Preparation

- 1 Turn off the unit and the VCR.
- 2 Connect the VCR to the A/V IN jack.
- 3 Set the POWER switch to TV.

Notes

- If the picture is distorted or noisy, move the unit away from the VCR.
- When watching TV or listening to the radio, disconnect the plug from the A/V IN jack.



Troubleshooting

Symptom	Check and Adjust
The unit does not operate. (No picture nor sound)	<ul style="list-style-type: none"> • The polarity of the batteries is incorrect. • The batteries are exhausted. • The AC power adaptor is not firmly connected. • Battery operation is attempted while the AC power adaptor is still connected to the DC IN 9 V jack.
Sound is heard, but there is no picture. The picture disappears soon after the power is turned on.	<ul style="list-style-type: none"> • The batteries are exhausted.
No color	<ul style="list-style-type: none"> • The program is not in color.
Snow and noise only	<ul style="list-style-type: none"> • The VHF or UHF band is not selected correctly.
Indistinct picture, double images	<ul style="list-style-type: none"> • The channel is not tuned in accurately. • Adjust the antenna.
Dotted lines or stripes	<ul style="list-style-type: none"> • Often caused by interference from neon signs, hair dryers, etc. Move the unit to another spot.

Notes on the built-in small fluorescent lamp

When the picture becomes dim or goes out soon after you turn on the unit installed with new batteries, the built-in small fluorescent lamp (used in the internal lighting unit) has to be replaced with new one. When replacing, consult the nearest Sony dealer.

- The life of the lamp is about four years when you use the unit three hours a day.
- When the batteries are run down, the lamp goes out.
- If the unit is used in a cold place, the lamp may become dim. But as the temperature of the lamp goes up, it will be as bright as in a normal condition.

Precautions

- Do not open the casing. Refer servicing to qualified personnel only.
- Operate the unit only on 9 V DC.
For AC operation, use the supplied AC power adaptor. Do not use any other AC power adaptor.
For car battery operation, use the optional Sony DCC-E190L car battery cord. Do not use any other car battery cord.
- Disconnect the AC power adaptor from a wall outlet when the unit is not to be used for an extended period of time.
- Do not place the unit in a hot place or in a place subject to excessive dust or vibration.
- Avoid rough handling.
- Clean the unit with a soft cloth slightly dampened with a mild detergent solution. Never use strong solvents, such as thinner or benzene, as they may damage the finish.
- If you bring the unit directly from a cold place to a warm place, moisture may condense inside the unit. In this case, turn off the unit and wait until the moisture evaporates.

On LCD

- Do not press the LCD screen forcibly, as it may cause poor picture and damage to the unit.
- Use the unit within a temperature range of 0°C to 45°C (32°F to 113°F).
- When you use the unit in a cold place, double images or delayed images may occur but this is not a malfunction.

On the AC power adaptor

- One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.

Note to CATV system installer in the U.S.A.:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

If you have any question or problem concerning your unit that is not covered in this manual, please consult the nearest Sony dealer.

Specifications

TV standard	American TV standard
Color system	NTSC
Channel coverage	VHF channel 2-13 UHF channel 14-69
Radio frequency range	FM: 87.6-108 MHz (Stereo) AM: 530-1,710 kHz (Mono)
Antenna	VHF/UHF/FM: telescopic antenna AM: built-in ferrite bar antenna
Display	TN LCD/TFT active matrix method Effective picture-element ratio: more than 99.99%
Picture size	3-inch picture measured diagonally
Speaker	36 mm (1 ⁷ / ₁₆ inches) dia. EXT ANT: minijack, impedance 75 ohms (for TV/FM-radio) A/V IN: tripolar minijack, impedance audio 47 kilohms/ video 75 ohms
Output	(headphones): stereo minijack, impedance 8-300 ohms
Power requirement	9 V DC. See "Power sources".
Battery life	See "Power sources".
Power consumption	3.8 W (9 V DC) AC adaptor use
Dimensions	Approx. 113.6 × 166.1 × 60 mm (w/h/d) (4 ¹ / ₂ × 6 ¹ / ₂ × 2 ³ / ₈ inches) incl. projecting parts
Weight	Approx. 0.58 kg (1 lb 4 oz) incl. batteries Approx. 0.45 kg (1 lb) excl. batteries

Accessories supplied

AC power adaptor (1), Sun shade (1), Carrying pouch (1)

Optional accessories

Alkaline battery	size AA (LR 6)
AV cord	AVK-715M
Car antenna	VCA-9E
Headphones	MDR-34
Car battery cord	DCC-E190L

Design and specifications subject to change without notice.