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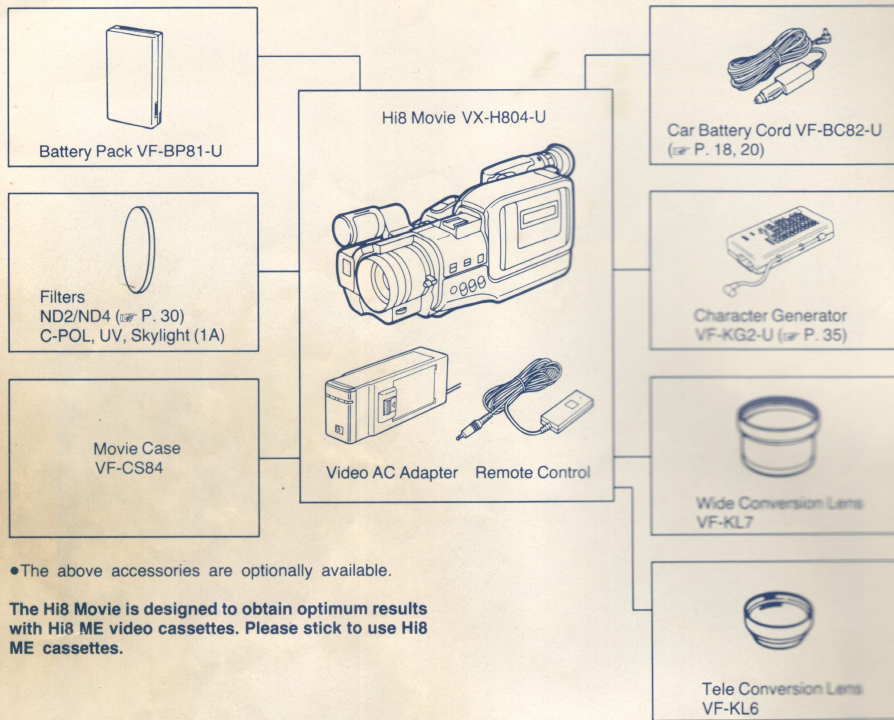
# OLYMPUS®

## Hi8 Movie VX-H804

Instruction Manual



# OLYMPUS Hi8 MOVIE SYSTEM



•The above accessories are optionally available.

The Hi8 Movie is designed to obtain optimum results with Hi8 ME video cassettes. Please stick to use Hi8 ME cassettes.

<p><b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN</p>	<p>This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.</p>
<p>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</p>	<p>This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.</p>

The serial number of this product may be found on the bottom cover of the unit. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft.

Date of Purchase \_\_\_\_\_  
 Dealer Purchased From Cameras Camera  
 Dealer Address Kent Ohio  
 Dealer Phone No. 288-1297  
 Model No. VX-H804-U/VF-BA84-U  
 Serial No. 210HT00127

# PROVIDED ACCESSORIES

•Before use, confirm that the following accessories are provided.

<p>Hi8 Movie VX-H804-U</p>	<p>Video AC Adapter VF-BA84-U</p> <p>DC Input Cable (P. 7, 18, 19, 20, 34)</p>	<p>Battery Pack VF-BP81-U</p> <p>(P. 9, 18, 19)</p>
<p>RF Adapter</p> <p>(P. 20)</p>	<p>Remote Control</p> <p>(P. 14)</p>	<p>Shoulder Strap</p> <p>(P. 8)</p>
<p>Audio/video Cables</p> <p>(P. 20, 34)</p>	<p>VHF Connecting Cable</p> <p>(P. 20)</p>	<p>300Ω-75Ω Antenna Adapter</p> <p>(P. 20)</p>
<p>Battery for Clock Operation</p> <p>(P. 16)</p>	<p>Cleaning Tape</p> <p>(P. 24)</p>	<p>S-video Cable</p> <p>(P. 20)</p>

The model name (VX-H804) shown on the product is the same as the model name (VX-H804-U) used in the instruction manual.

**CAUTION:**  
 TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Your Movie is designed to record and play back in SP mode only. The Movie will not perform normal playback for programs pre-recorded in LP mode.

Only use 8 mm video cassettes bearing the **Hi8** or **8** mark.

**WARNING:**  
 TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.


**WARNING:**  
 ONE FEDERAL COURT HAS HELD THAT RECORDING COPYRIGHTED T.V. PROGRAMS IS INFRINGEMENT. SUCH PROGRAMS SHOULD NOT BE RECORDED.

This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications set forth in Subpart J of Part 15 of the FCC Rules. If this equipment does cause interference to radio or television reception which can be determined by turning the equipment on and off, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

L'interférence radioélectrique générée par cet appareil numérique de type B ne dépasse pas les limites énoncées dans le Règlement sur les perturbations radioélectriques, section appareil numérique, du Ministère des Communications.

# SAFETY INSTRUCTIONS

1. **Read Instructions**—All the safety and operating instructions should be read before the unit is operated.
2. **Retain Instructions**—The safety and operating instructions should be retained for future reference.
3. **Heed Warnings**—All warnings on the unit and in the operating instructions should be adhered to.
4. **Follow Instructions**—All operating and maintenance instructions should be followed.
5. **Cleaning**—Unplug this video unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth for cleaning.
6. **Attachments**—Do not use attachments not recommended by the video product manufacturer as they may be hazardous.
7. **Water and Moisture**—Do not use this video unit near water—for example near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. **Accessories**—Do not place this video unit on an unstable cart, stand, tripod, bracket, or table. The video unit may fall, causing serious injury to a child or adult, and serious damage to the unit. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video unit. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. 
9. **Ventilation**—Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video unit and to protect it from overheating. These openings must not be blocked or covered. Never place the video unit on a bed, sofa, rug, or other similar surface, or near or over a radiator or heat register. This video unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. **Power Sources**—This video unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video units intended to be operated from battery power, or other sources, refer to the operation instructions.

11. **Grounding or Polarization**—This video unit may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug, a plug having a third (grounding) pin.

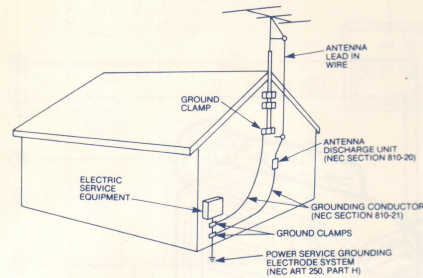
The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

The 3-wire grounding-type plug will fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

12. **Power-Cord Protection**—Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords of plugs, convenience receptacles, and the point where they exit from the unit.

13. **Outdoor-Antenna Grounding**—If an outside antenna or cable system is connected to the video unit, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure on next page.

EXAMPLE OF ANTENNA GROUNDING



NEC-NATIONAL ELECTRICAL CODE

14. **Lightning**—For added protection of this video unit receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video unit due to lightning and power-line surges.



15. **Power Lines**—An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

16. **Overloading**—Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

17. **Objects and Liquids**—Never push objects of any kind into this video unit through openings as they may touch dangerous voltage points or short-out part that could result in a fire or electric shock. Never spill liquid of any kind onto the video unit.

18. **Servicing**—Do not attempt to service this video unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. **Damage Requiring Service**—Unplug this video unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

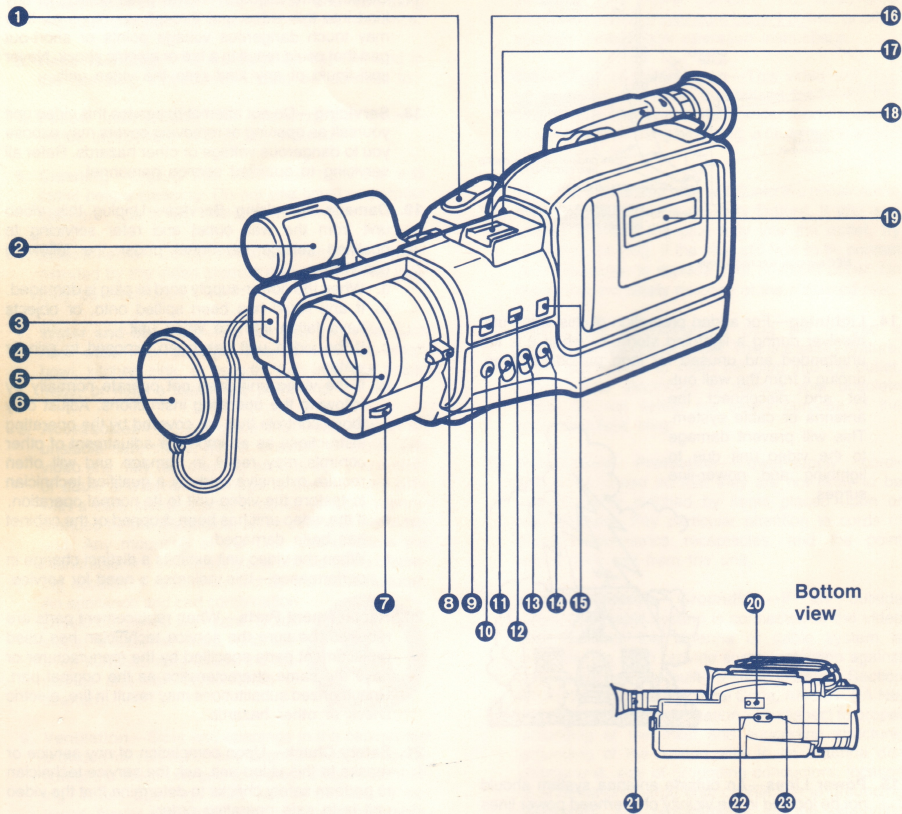
- a. When the power-supply cord or plug is damaged.
- b. If any liquid has been spilled onto, or objects have fallen into the video unit.
- c. If the video unit has been exposed to rain or water.
- d. If the video unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video unit to its normal operation.
- e. If the video unit has been dropped or the cabinet has been damaged.
- f. When the video unit exhibits a distinct change in performance—this indicates a need for service.

20. **Replacement Parts**—When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

21. **Safety Check**—Upon completion of any service or repairs to this video unit, ask the service technician to perform safety checks to determine that the video unit is in safe operating order.

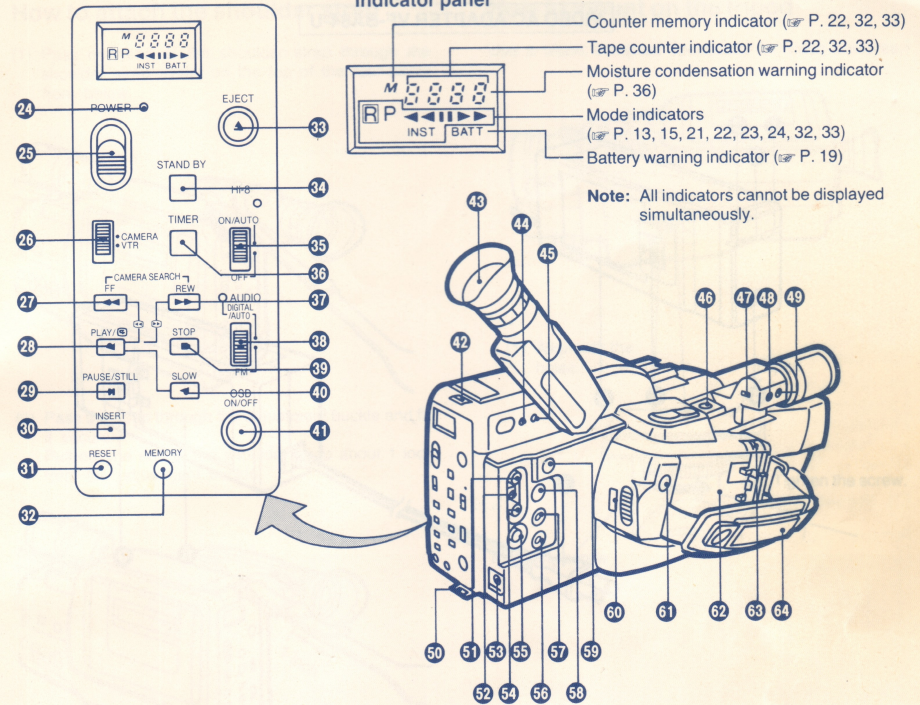
# OPERATING CONTROLS

Hi8 MOVIE VX-H804-U



- |  |  |
|--|--|
| 1. Power zoom button (☞ P. 12)                   | 13. HIGH SPEED SHUTTER selector (☞ P.28)             |
| 2. Microphone (☞ P. 27)                          | 14. FADE button (☞ P. 26)                            |
| 3. Auto white balance sensor (☞ P. 28)           | 15. FOCUS button (☞ P.25)                            |
| 4. Lens hood (☞ P. 30)                           | 16. Accessory shoe (☞ P. 27)                         |
| 5. Focus ring (☞ P. 25)                          | 17. Tally lamp (☞ P. 13)                             |
| 6. Lens cap (☞ P. 9, 12, 15)                     | 18. Electronic viewfinder (☞ P. 12)                  |
| 7. IRIS control (☞ P. 9, 30)                     | 19. Cassette holder (☞ P. 11, 15)                    |
| 8. Zoom lever with macro button (☞ P. 9, 12, 27) | 20. Battery compartment for Auto Date/Time (☞ P. 16) |
| 9. WHITE BALANCE selector (☞ P. 9, 28)           | 21. Diopter adjustment control (☞ P. 12)             |
| 10. TELEPHOTO Button (☞ P.29)                    | 22. Tripod mount screw hole (☞ P. 8)                 |
| 11. DATE/TIME Button (☞ P.17)                    | 23. Tripod guide hole (☞ P. 8)                       |
| 12. FOCUS selector (☞ P.9, 25, 27)               |  |

## Indicator panel

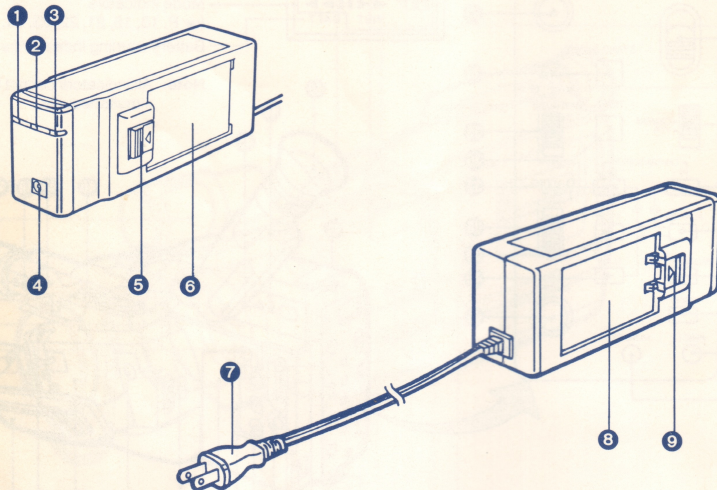


- Counter memory indicator (☞ P. 22, 32, 33)
- Tape counter indicator (☞ P. 22, 32, 33)
- Moisture condensation warning indicator (☞ P. 36)
- Mode indicators (☞ P. 13, 15, 21, 22, 23, 24, 32, 33)
- Battery warning indicator (☞ P. 19)

Note: All indicators cannot be displayed simultaneously.

- |  |   |
|--|---|
| 24. POWER indicator (☞ P. 9, 15)                                       | 42. Eyelet tab for shoulder strap (☞ P. 8)              |
| 25. POWER switch (☞ P. 9, 15, 21)                                      | 43. Eyecup (☞ P. 13)                                    |
| 26. VTR/CAMERA selector (☞ P. 9, 13, 14, 21, 29, 31, 33)               | 44. DATE/TIME SET button (☞ P. 17)                      |
| 27. CAMERA SEARCH/FF (fast forward)/Cue button (☞ P. 14, 22, 23, 24)   | 45. DATE/TIME SHIFT button (☞ P. 17)                    |
| 28. PLAY button (☞ P. 13, 21, 24)                                      | 46. START/STOP button (☞ P. 12, 13, 15, 26, 29, 31, 33) |
| 29. PAUSE/STILL button (☞ P. 23, 31, 32, 33)                           | 47. FILTER ON/OFF selector (☞ P. 27)                    |
| 30. INSERT button (☞ P. 32)  | 48. DC OUT jack (☞ P. 27)                               |
| 31. RESET button (☞ P. 22, 32)   | 49. MIC (microphone) jack (☞ P. 27)                     |
| 32. MEMORY button (☞ P. 22, 32)  | 50. Eyelet tab for shoulder strap (☞ P. 8)              |
| 33. EJECT button (☞ P. 11, 15, 21)                                     | 51. VIDEO OUT jack (☞ P. 20, 34)                        |
| 34. STANDBY button (☞ P. 13, 15)                                       | 52. RF DC OUT jack (☞ P. 20)                            |
| 35. Hi8 ON/AUTO/OFF selector (☞ P. 14)                                 | 53. DC IN jack (☞ P. 18, 20, 34)                        |
| 36. TIMER button (☞ P. 29)   | 54. AUDIO OUT (L) jack (☞ P. 20, 34)                    |
| 37. CAMERA SEARCH/REW (rewind)/Review button (☞ P. 14, 22, 23, 24, 32) | 55. AUDIO OUT (R) jack (☞ P. 20, 34)                    |
| 38. AUDIO DIGITAL/AUTO/FM selector (☞ P.24)                            | 56. Headphones jack (☞ P. 14)                           |
| 39. STOP button (☞ P. 21, 24, 36)                                      | 57. REMOTE control jack (☞ P. 14)                       |
| 40. SLOW button (☞ P. 23, 24)  | 58. S-VIDEO OUT terminal (☞ P. 20)                      |
| 41. OSD (on-screen display) ON/OFF selector (☞ P.10)                   | 59. EDIT terminal                                       |
|  | 60. START/STOP button (☞ P. 12, 13, 15, 26, 29, 31, 33) |
|  | 61. CHARACTER GENERATOR terminal (☞ P. 35)              |
|  | 62. Battery compartment (☞ P. 9)                        |
|  | 63. BATTERY eject lever (☞ P. 9)                        |
|  | 64. Grip strap (☞ P. 12)                                |

## VIDEO AC ADAPTER VF-BA84-U



1. CHARGE 1 indicator (P. 19)
2. POWER indicator (P. 18)
3. CHARGE 2 indicator (P. 19)
4. DC OUT jack (P. 18)
5. Battery eject lever
6. Battery holder (P. 19)
7. AC plug (P. 18)
8. Battery holder (P. 19)
9. Battery eject lever (P. 19)

**CAUTION:** Voltage settings 110 V, 220 V and 240 V are not intended for use in U.S.A. and Canada.

**CAUTION:** Operation at voltage settings of 110/220/240 V AC may require the use of a different AC plug. See example below. Please contact either a local or foreign electrical parts distributor for assistance in selecting the right AC plug.  
Example: 220/240 V European configuration.



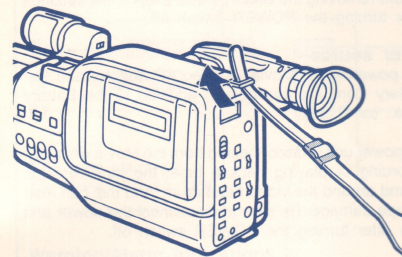
**CAUTION:** TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**ATTENTION:** POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRIE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

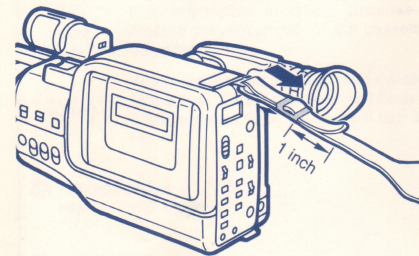
## BEFORE RECORDING

### How to attach the shoulder strap

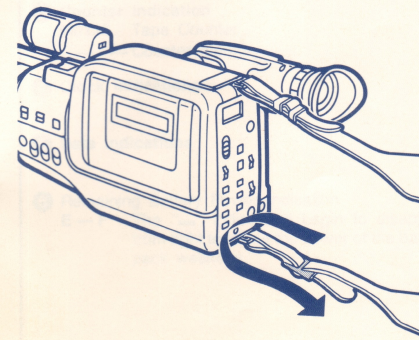
- (1) Pass one end of the shoulder strap through the shoulder strap eyelet on the top of the rear panel from below.



- (2) Pass the strap through the adjustment buckle and fix it securely. Pull out the end of the shoulder strap about 1 inch from the adjustment buckle.

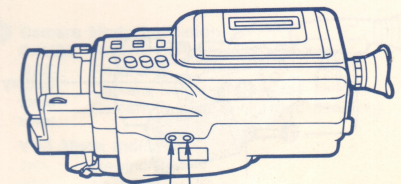


- (3) Following the same procedure, pass the other end through the eyelet on the bottom of the rear panel, and fix it with the buckle.

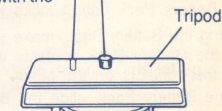


### How to mount on the tripod

Use a tripod designed specifically for video cameras.



- (1) Align with the holes.



Tripod

Mounting screw

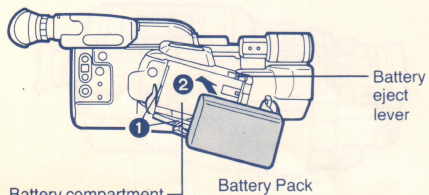
- (2) Tighten the screw.

Mounting screw

# BASIC SHOOTING PROCEDURES

## (1) Attach the Battery Pack VF-BP81 (provided).

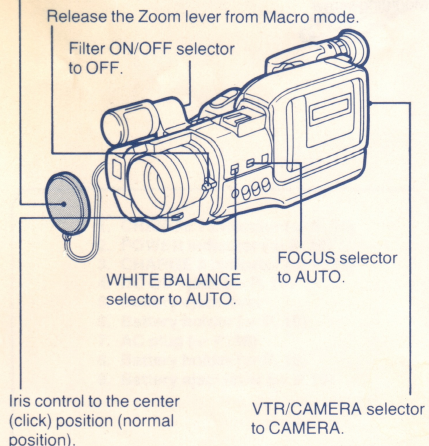
Attach the Battery Pack into the battery compartment of the Movie 8.



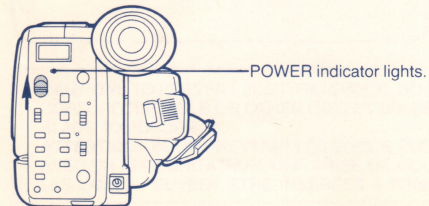
- Align the grooves of the Battery Pack and the Movie 8.
  - Insert the Battery Pack until it locks with a click.
- When attaching the Battery Pack, make sure that the polarities of the Battery Pack contacts are correctly aligned with the contacts on the Movie 8.
  - To remove the Battery Pack, slide the Battery Eject Lever to the right.

## (2) Preset the camera controls as follows.

Remove the lens cap.



## (3) Switch on the power.



## When using a Battery Pack:

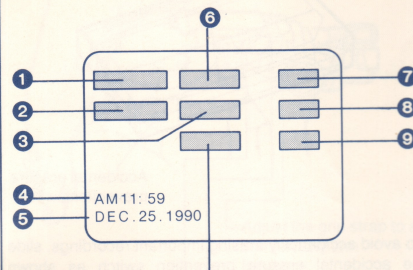
- The provided Battery Pack VF-BP81 is not charged. Please charge it before use. (P. 19)
- Make sure it is fully charged before each use.
- Before removing the Battery Pack, allow a few seconds after turning the POWER switch off.

## Power source

- For powering the Movie, a Video AC Adapter and Car Battery Cord are available in addition to the Battery Pack. (P. 18)
- If a power unit is disconnected from the Movie while it is recording or playing back a tape, the tape remains wound around the video head drum, and this can lead to tape damage. Be sure to disconnect the power unit only after turning the POWER switch off.

## Viewfinder Indicators

Besides the image being recorded or played back, the following information is displayed in the viewfinder.



## Warning/Alarm Indications



There is little battery power left. The Movie will be turned off in a few minutes. Replace the battery pack with a fully recharged one.



It is impossible to record because the erasure prevention tab of the cassette is not intact.



When condensation has formed inside the Movie, the "DEW" indication will flash and a few seconds later, the unit will turn itself off.

## 1 Hi8 Indication

Hi8 Hi8 mode

## 2 Self-Timer Indication

SELF-20S Self-timer recording for 20 seconds  
SELF-END Self-timer recording until the end of the tape.

## 3 Counter Indication

M0123 Tape Counter  
Counter memory

## 4 Clock Indications

## 5 Date Indications

## 6 Remaining Battery Power Indication

E---F The "—" indications begin to disappear from right to left as the power of the battery pack weakens.

## 7 Camera Mode Indication

PAUSE Recording Pause, Rec Review  
REC Recording  
◁▷ Camera Search (In reverse direction)  
△ Camera Search (In forward direction)

## VTR Mode Indication

◁▷ Rewind/Review  
△△ Fast Forward/Cue  
△ Play  
◁ Slow  
|| Still, Frame Advance  
INST ◁ Insert  
INST || Insert Pause

## 8 Manual White Balance Indication

OUT Outdoor  
IN Indoor

## 9 High Speed Shutter Mode Indication

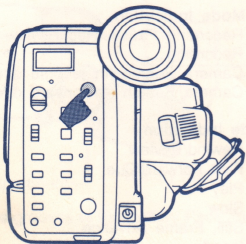
1/100 1/100 sec.  
1/250 1/250 sec.  
1/500 1/500 sec.  
1/1000 1/1000 sec.  
1/2000 1/2000 sec.

Telephoto Indication  
X2ZOOM Telephoto mode

- Some of the above indications may light up alternately at the same place in the EVF to indicate the corresponding operating condition or warning.
- To delete the indications in the EVF, press the On Screen Display Button. To make these indications appear again, press this button once more.

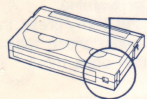
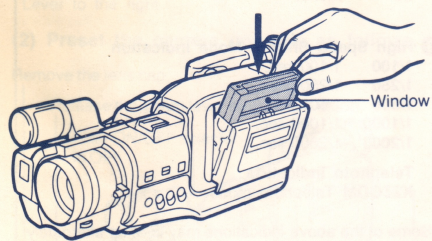
**(4) Load a video cassette.**

1. Press the cassette EJECT button.  
The cassette holder will open.



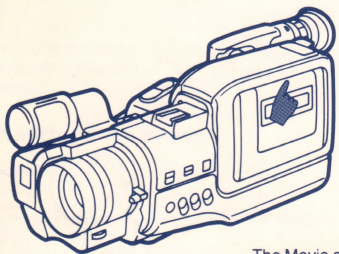
2. Insert a video cassette.

The video cassette window must be facing out.



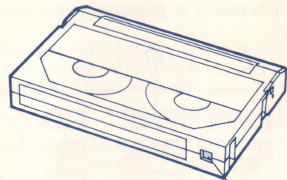
Confirm that the accidental erasure prevention switch is set for recording.

3. Close the cassette holder.



The Movie enters the Record Pause mode.

**Using the accidental erasure prevention switch**



Accidental erasure prevention switch

To avoid accidentally erasing important recordings, slide the accidental erasure prevention switch as shown below.



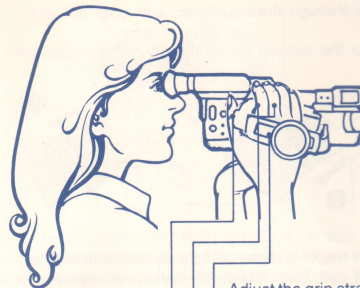
Recording not possible.

To record, set the switch to its former position.



Recording is possible.

**(5) Position the Movie for shooting.**

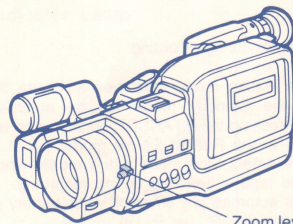


Adjust the grip strap to a comfortably firm tightness.

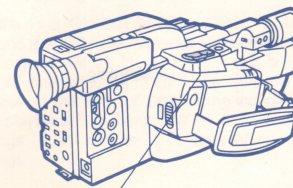
Lightly place your two forefingers on the power zoom buttons.

Lightly place your thumb on the Start/Stop button.

**(6) Check the image through the viewfinder and compose the picture using the zoom lever or power zoom buttons.**



Zoom lever

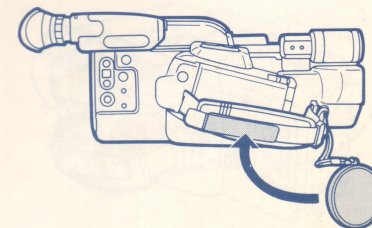


Power zoom buttons  
Press W (wide) to increase the angle of view.  
Press T (telephoto) for zoom shots.

- Two zooming speeds are available. Press the button to move the lens fast. Press lightly to move the lens slowly for fine adjustment of the angle of view.

**Lens cap retainer clip**

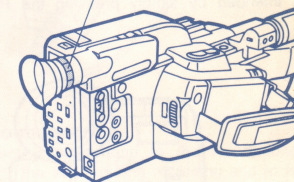
To keep the lens cap out of the way while recording, attach it onto the grip strap using the lens cap retainer clip.



**Diopter adjustment**

Should the image in the viewfinder be unclear, adjust the diopter as necessary. This is particularly useful for people requiring eyeglasses.

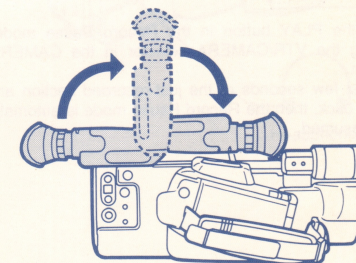
Diopter adjustment control



Look through the viewfinder, and slide the diopter adjustment control until the image is clearly visible.

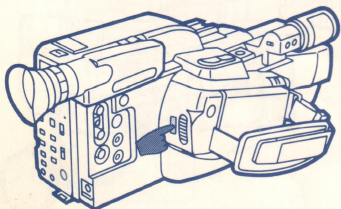
**Electronic viewfinder adjustment**

The electronic viewfinder can be tilted upward to 180 degrees. This is convenient especially for low-angle shooting.



### (7) Press the Start/Stop button.

Recording begins and the "REC" appears in the viewfinder. Pressing this button again stops recording temporarily (Record Pause mode). "PAUSE" appears in the viewfinder.

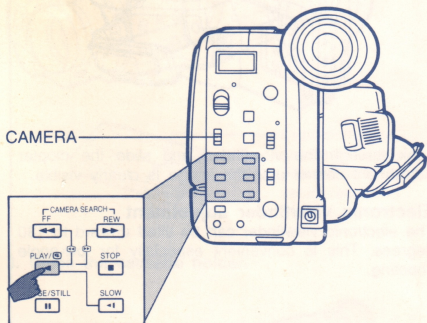


#### Note:

When continuing recording again after turning the power off once, a few frames of the last recorded scene will be erased. (See "Assemble Recording", P. 31.)

#### Record review

You can check in the viewfinder if the scenes have been recorded as intended by simply pressing the PLAY button.



Press the PLAY button in the Record Pause mode, keeping the VTR/CAMERA selector in the CAMERA position.

The last few seconds of the just-recorded section are played back, then the Record Pause mode is automatically resumed.

### Eyecup adjustment

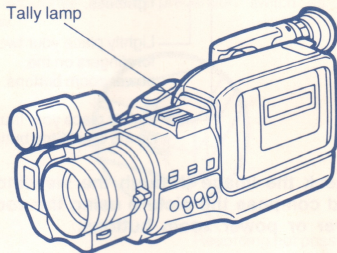
To look through the viewfinder with your left eye:

Remove the eyecup by rotating it counterclockwise.



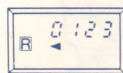
Align the marks and re-install the eyecup so that it may fit your left eye, then rotate the eyecup clockwise until it clicks in.

Tally lamp

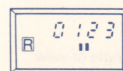


Tally lamp lights during recording.

- When the Pause mode continues for more than 5 minutes, the Standby mode will be automatically entered. Pressing the STANDBY button again returns the Movie to the Record Pause mode. (P. 15)
- The Movie enters Stop mode automatically when the end of the tape is reached during recording.
- The power automatically shuts off when battery power becomes insufficient. (P. 19)
- Panel indications show the operating mode.

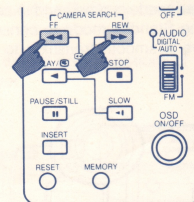


Recording



Record pause

### Camera search



Press the CAMERA SEARCH (FF/REW) button in the Record Pause mode to review what you have shot instantly in the viewfinder. Playback is possible in both directions.

Leave the VTR/CAMERA selector in the CAMERA position, and press the CAMERA SEARCH (FF/REW) button while in the Record-Pause mode.

#### CAMERA SEARCH (FF) button:

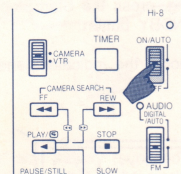
Press this for forward playback at normal speed.

#### CAMERA SEARCH (REW) button:

Press this for reverse playback at 7 times normal speed. As long as you keep the button pressed, what you have shot is played back. When you release your finger, the camera reenters the Record-Pause mode.

**Note:** Sound is muted in the CAMERA Search (reverse) mode.

### Hi-8 Indicator Lamp



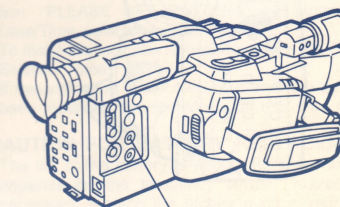
When the Hi-8 ON/AUTO/OFF selector is set to ON/AUTO and the Hi-8 video cassette is being used, the Hi-8 indicator lamp will be lit.

When this selector is set to OFF, the lamp will not be lit, regardless of the kind of tape being used.

During playback, the lamp will be lit in case of Hi-8 recordings; it will not be lit in case of normal 8 mm recordings.

### Remote control shooting

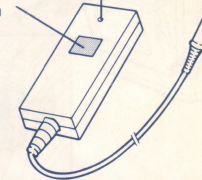
Start/Stop of recording is possible from a distance using the provided Remote Control.



Recording indicator  
(Lights while recording)

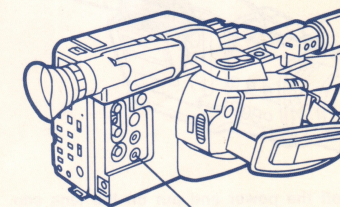
REMOTE control jack

REC/PAUSE  
button



### Audio-monitoring

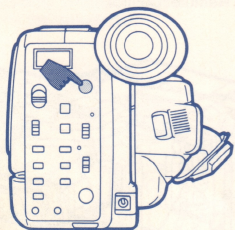
Connect a headphone to the Headphones jack to monitor the audio during recording and to listen to the recorded sound during playback.



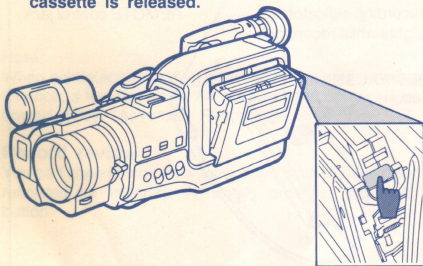
Headphones

## (8) After recording

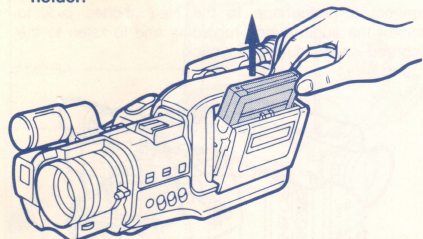
1. Press the cassette EJECT button.



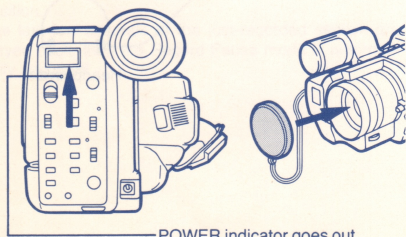
2. Keep pressing the cassette unlock latch until the cassette is released.



3. Remove the videocassette and close the cassette holder.

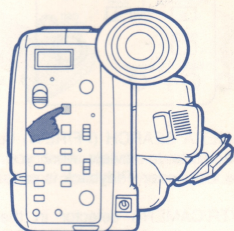


4. Turn off the power and put on the lens cap.



## Standby operation

When Record Pause mode is presumed to continue for a long time, enter the Standby mode to conserve battery power and to have a smooth transition to succeeding recordings.



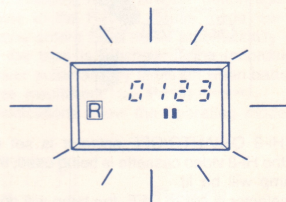
Press the STANDBY button. The picture will disappear from the viewfinder.

### Note:

- While recording, always enter Record Pause mode before pressing the STANDBY button.
- No operation, including recording and playback, will work in the Standby mode.

To restart recording, press the Start/Stop button after pressing the STANDBY button.

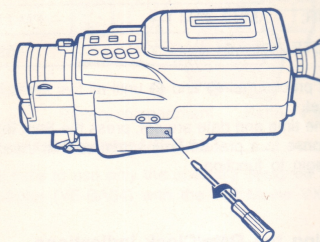
During Standby mode, the indicator panel blinks.



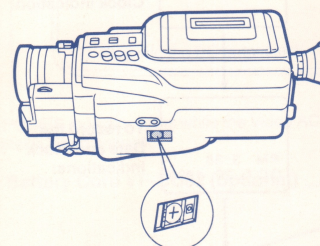
## Setting of the Date and Clock & Recording the Date/Clock Indications.

### How to Insert the Battery for the Clock Operations

- 1 Remove the lid on the bottom of the Movie with a screwdriver.



- 2 Insert the "LR1130" size battery with the polarities (+ and -) aligned correctly and then replace the lid.
  - The clock starts working as soon as the battery is inserted.



The "LR1130" size battery (supplied) is necessary for the operation of the built-in digital clock, and to memorize the Date/Clock Indications when the Movie is turned off.

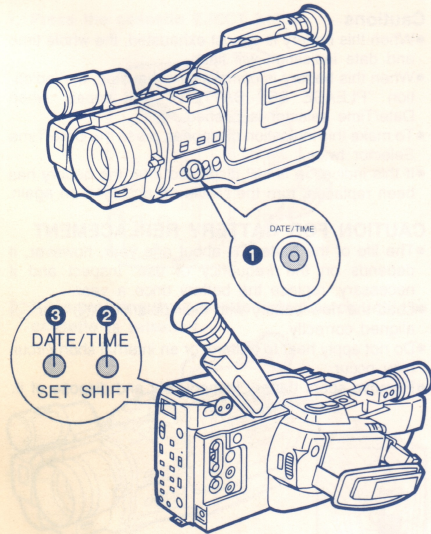
### Cautions

- When this battery is almost exhausted, the whole time and date indication will flash.
- When this battery is completely exhausted, the indication "PLEASE SET BATTERY" will appear when Date/Time selector is pushed.
- To make this indication disappear, press the Date/Time Selector twice.
- If this indication is still displayed after the battery has been replaced, turn the Movie off and then on again.

### CAUTION FOR BATTERY REPLACEMENT

- The life of the battery is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the battery once a year.
- Load the new battery with their polarities (+ and -) aligned correctly.
- Do not apply heat to battery, or an internal short circuit may occur.
- Remove spent battery immediately and dispose of it.

## Setting of the Date and Clock



- 1 When the Date/Time Button is pushed, the indication shown on the below will appear in the EVF.

AM 0:05  
JAN. 1. 1990

- If no battery is inserted, the indication "PLEASE SET BATTERY" will light up. In this case, insert the battery as described on page 16.

- 2 When the Shift Button is pushed, the flashing portion displayed will be changed in the following sequence.

Year → Month → Date → Hour → Minute

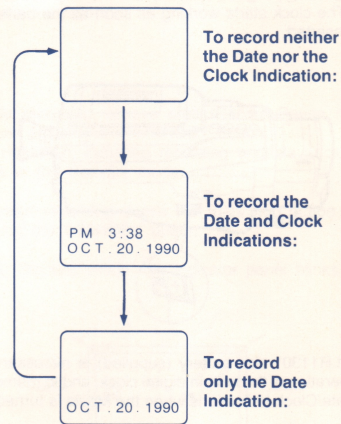
- 3 When the Set Button is pushed, the flashing portion displayed will be changed in the following sequence.

YEAR: 1990 → 1991 → ..... → 2089  
 MONTH: JAN → FEB → ..... → DEC  
 DATE: 1 → 2 → ..... → 31  
 HOUR: AM 12 → AM 1 → ..... → PM 11  
 MINUTE: 00 → 01 → ..... → 59

- Repeat procedures 2 and 3 until all five items have been set.
- Once the time and date are set, press the Shift Button in response to a precise time signal so that the clock may begin to function.

## Recording the Date/Clock Indications

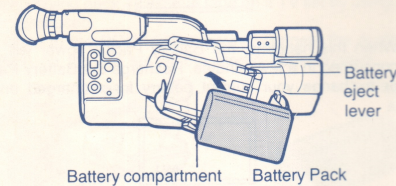
When the Date/Time Button is pushed repeatedly, the indication will change in the following sequence.



## POWER SUPPLY

The following power supply units are available to power the Movie. Choose the unit from those shown below that best meets your needs.

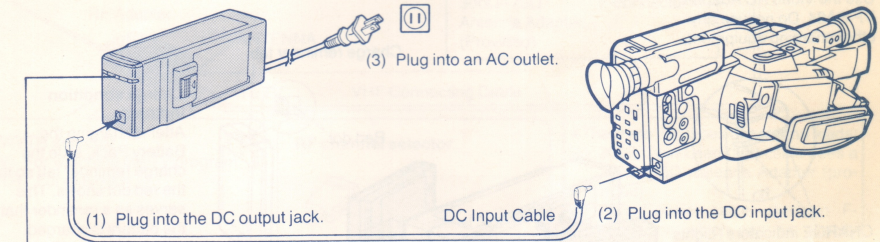
### Battery Pack VF-BP81 \_\_\_\_\_ Rechargeable battery pack \_\_\_\_\_



- Use a Battery Pack that is sufficiently charged.
- Before removing, allow a few seconds after turning off the power.
- Refer to page 9 for details on inserting and removing the Battery Pack.
- See page 19 for recharging.

### Video AC Adapter VF-BA84 \_\_\_\_\_ For powering from a household AC outlet \_\_\_\_\_

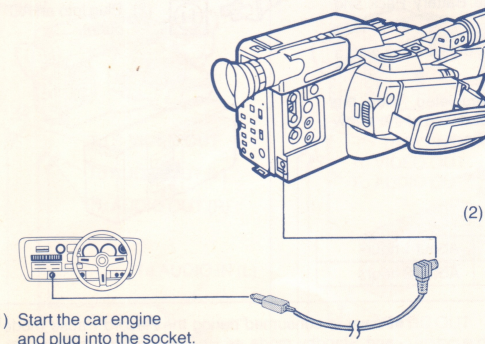
- Be sure to use only the specially designed Video AC Adapter (VF-BA84) with the Hi8 Movie VX-H804.



The POWER indicator lights while the Video AC Adapter is being powered.

**Note:**  
When a Battery Pack is attached to the AC Adapter, the Movie cannot be supplied with power.

### Car Battery Cord VF-BC82 (optional) \_\_\_\_\_ For powering from a car's cigarette lighter jack \_\_\_\_\_



- This cord can be used only with a negative-grounded car powered by 12 V DC. Never use with positive-grounded or 24 V powered cars.
- Keep the engine running when using this power unit.
- Power of the Movie automatically shuts off when voltage drops. Allow 10 seconds before resupplying power.

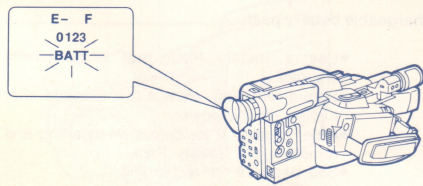
- If the power supply unit is disconnected during recording or playback, the tape remains wound around the video head drum when it stops, and can result in possible damage to the tape. Be sure to disconnect the power supply unit a few seconds after turning off the POWER switch of the Movie.

- No other power supply unit can be used with the Movie.

## RECHARGING THE BATTERY PACK

### Battery warning indicator

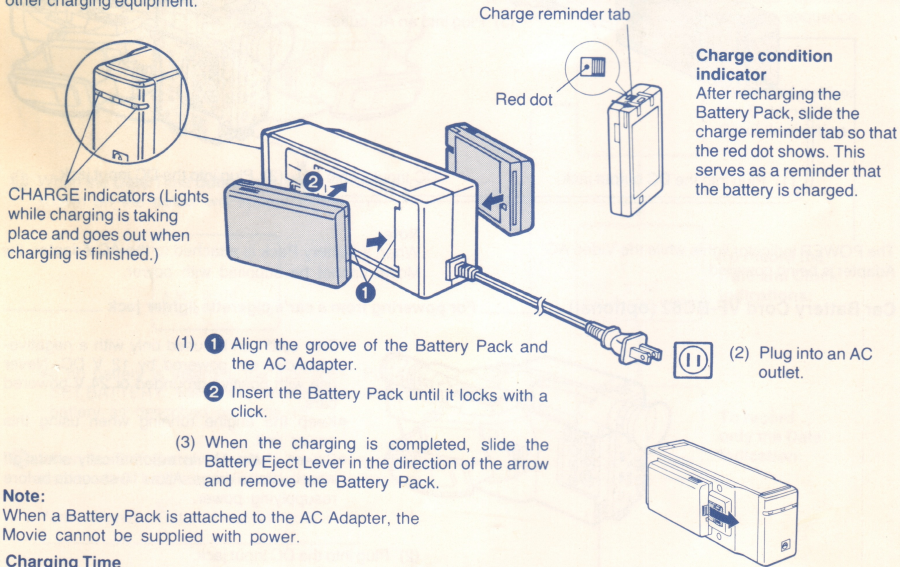
When the battery power is insufficient...



There is little battery power left. The Movie will be turned off in a few minutes. Replace the battery pack with a fully recharged one.

### Recharging the Battery Pack

Use the Video AC Adapter VF-BA84. Do not use any other charging equipment.



#### Note:

When a Battery Pack is attached to the AC Adapter, the Movie cannot be supplied with power.

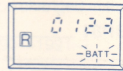
#### Charging Time

Charging one Battery Pack	About 1 hour
Charging two Battery Packs at the same time	About 2 hours

#### Notes:

- The Movie can record continuously for 1 hour with a fully charged Battery Pack under an average temperature of 25°C (77°F). However, the total recording time will be shorter if it is used intermittently or in lower temperatures. Turning off the power when not in use is recommended.

Also, the BATT indicator blinks on the indicator panel.



When this happens, the Battery Pack's power will be consumed in a few minutes. Recharge the Battery Pack or exchange your current battery for a charged one.



When the Battery Pack is completely exhausted, the above indicator starts blinking on the LCD panel. The tape will automatically return to the cassette, and the power will switch off.

#### Charge reminder tab

#### Charge condition indicator

After recharging the Battery Pack, slide the charge reminder tab so that the red dot shows. This serves as a reminder that the battery is charged.

## CONNECTION TO A TELEVISION

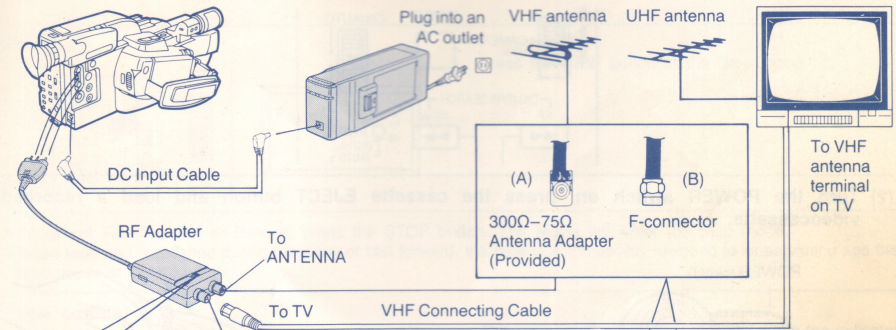
When you want to watch the picture being played back on a TV screen, connect the Movie to the power unit and the TV set as follows.

### When using a TV without audio/video input terminals

Connect the Video AC Adapter VF-BA84 and RF Adapter (provided) as shown below.

- When playing back a cassette tape on a TV set by using the RF Adapter, the sound from the FM audio tracks (L & R) will be reproduced.

To listen to the PCM (digital) sound, connect the Audio Output Jacks on the Hi8 Movie directly with the Audio Input Jack(s) on the TV set or the stereo audio system.



#### TV/VTR selector

TV: For watching the TV program  
VTR: For playback

#### RF channel selector

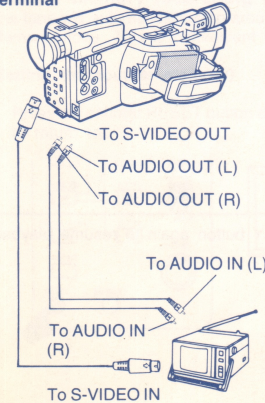
Set to channel 3 or 4, whichever is not used in your area.

- There are two types of antenna leads: (A) 300Ω Twin-Lead (flat) cable uses a 300Ω-75Ω Antenna Adapter (provided). (B) 75Ω Coaxial cable uses an F-connector, which can be directly connected to the antenna input terminal.

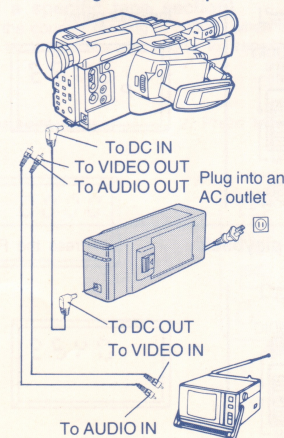
### When using a monitor TV with audio/video input terminals

Connect the Audio/Video Cable (provided) between the AUDIO OUT and VIDEO OUT of the Movie and the AUDIO IN and VIDEO IN of the TV set, as shown below.

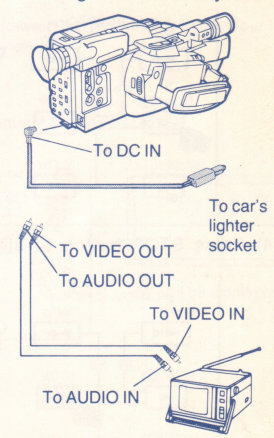
#### Connecting to a TV Set with S-Video Terminal



#### When using the AC Adapter:



#### When using the Car Battery Cord:



Use one of the following power sources: AC Adapter, Battery Pack or Car Battery Cord.

- Power is consumed during the Record Pause mode and Standby mode as well as the Recording mode. Therefore, to avoid recording interruptions, it is recommended you bring extra Battery Packs that can allow for two or three times more recording time beyond what you are planning.

#### For a longer life of the Battery Pack:

- Avoid overcharging.
- Store the battery in a cool, dry place.

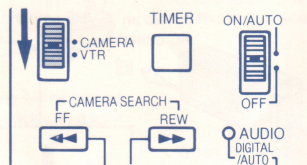
# PLAYBACK

The recorded tape can be played back and viewed either on the viewfinder of the Movie or on the screen of a TV connected to the Movie. (P. 20)

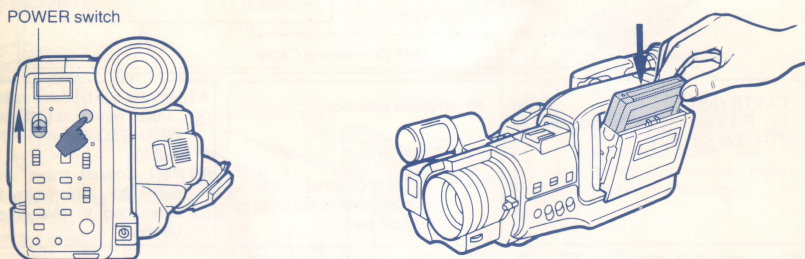
**Notes:**

- Tapes recorded in LP mode cannot be played back on the Movie.
- A cassette tape recorded on the Hi8 Movie cannot be played back on a standard Movie 8 Camera Recorder.

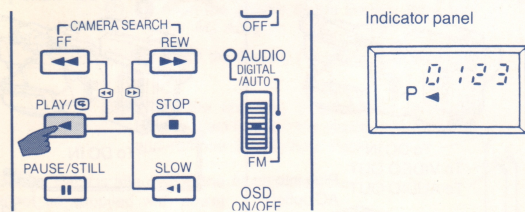
(1) Set the VTR/CAMERA selector to VTR.



(2) Turn the POWER switch on, press the cassette EJECT button and load a recorded videocassette.

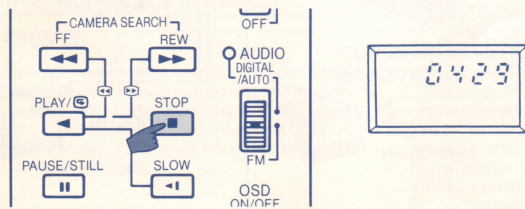


(3) Press PLAY button. Playback begins.



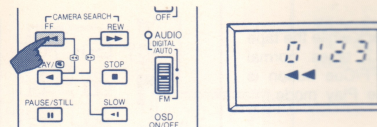
(4) Press STOP button to stop playback.

•Press the PLAY button again to resume playback.



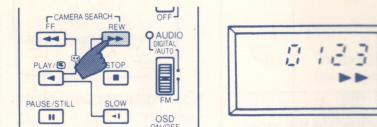
**•Fast-Forward**

Press the FF button in the Stop mode.



**•Rewind**

Press the REW button in the Stop mode.

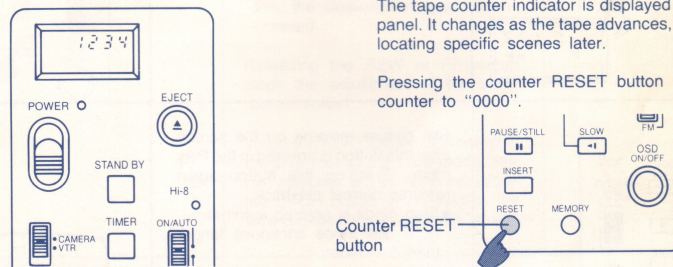


- To cancel Fast-Forward or Rewind, press the STOP button. The Movie will enter the Stop mode.
- When tape end is reached during playback or fast forward, the tape is automatically rewound to its beginning and the Stop mode is entered.

**Tape counter**

The tape counter indicator is displayed on the indicator panel. It changes as the tape advances, and is useful for locating specific scenes later.

Pressing the counter RESET button resets the tape counter to "0000".

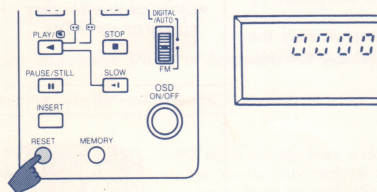


**Counter Memory (searching for a specific tape section)**

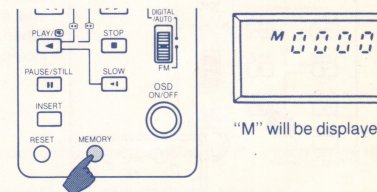
The tape will automatically stop around the counter reading of "0000" when fast forwarding or rewinding in the Counter Memory mode. This is convenient for locating the same scene for repeated viewing.

**(Setting the counter memory)**

1. Press the counter RESET button at the point you wish to return to.
2. Press the counter MEMORY button.



Tape counter resets to "0000".



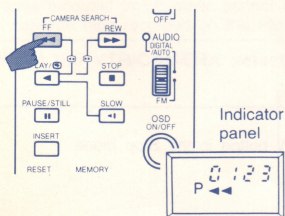
"M" will be displayed.

- Pressing the counter MEMORY button once again releases the Counter Memory mode, and the "M" disappears.

# VARIOUS PLAYBACK FUNCTIONS

Various playback modes are available using the following controls. No audio is heard while engaged in these modes.

## Cue

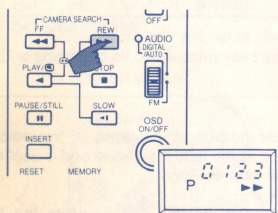


Picture is played back while the tape fast forwards at 7 times normal speed when the FF/Cue button is held pressed in the Play mode.



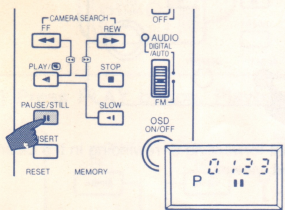
- Bar noise appears on the screen.
- If picture rolls vertically, adjust the vertical hold knob on your TV.

## Review



Picture is played back while the tape rewinds at 7 times normal speed when the REW/Review button is held pressed in the Play mode.

## Still



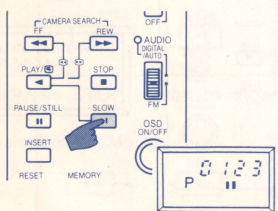
Still picture remains on the screen after this button is pressed in the Play mode. Pressing this button again restores normal playback.

- Stop mode is entered automatically, if Still mode continues longer than 5 minutes.



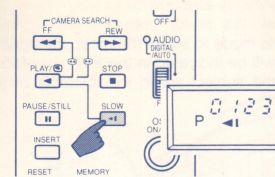
- If picture rolls vertically, adjust the vertical hold knob on your TV.
- Other irregularities may appear on some TVs.

## Frame Advance

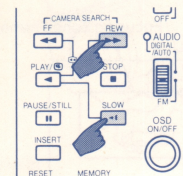


While in Still mode, each press of this button advances the still picture by one frame. When this button is kept pressed, the Movie presents frames successively.

## Slow-motion



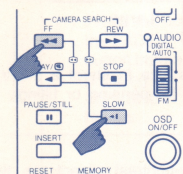
When the SLOW button is pressed in the Play mode, the slow-motion playback mode is engaged.



By pressing the SLOW button and the REW or FF button simultaneously, the slow-motion speed can be changed successively from 1/30 to 1/5 the normal speed.



- If picture rolls vertically, adjust the vertical hold knob on your TV.
- Other irregularities may appear on some TVs.

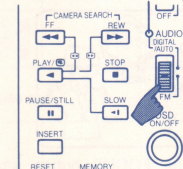


When the FF button is pressed simultaneously with the SLOW button, the slow-motion speed is increased.

Releasing the REW or FF button stops the adjustment of the slow-motion speed.

When the PLAY button is pressed in the slow-motion playback mode, normal playback will be restored. When the STOP button is pressed in the slow-motion mode, playback stops.

## Audio Indicator Lamp



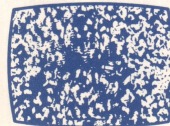
When the Audio DIGITAL/AUTO/FM selector is set to DIGITAL/AUTO and recordings with PCM (Pulse Code Modulation) sound are played back, the Audio Indicator Lamp will be lit. During playback of normal sound, it will not be lit.

When the Audio DIGITAL/AUTO/FM selector is set to FM, the Audio Indicator Lamp will not be lit during playback.

- Apart from playback, the Audio Indicator Lamp is always lit.

## When Playback Picture Appears as Illustrated Below:

### Cleaning care for video heads...

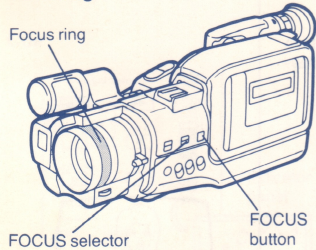


Clogged Video Head

- If, while playing back a tape, the image on your screen resembles the illustration on the left, the heads may require cleaning. Use a cleaning cassette (provided), following its instructions for use.
- If clear pictures do not result from cleaning the heads, the heads may need to be replaced. Consult your dealer.

# VARIOUS RECORDING FUNCTIONS

## Focusing

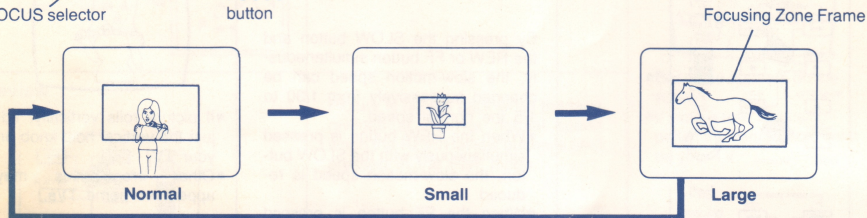


## Autofocus

When the FOCUS selector is set to AUTO, focusing is done automatically.

## Focusing zone selection

Press the FOCUS button in the Auto mode to select the most appropriate focusing zone. The zone selected will be indicated in the EVF. The focus will be automatically adjusted to the subject within the focusing zone.



Normally, use this focusing zone. It is usually the most appropriate and is the mode initially selected when autofocus shooting begins.

Use this focusing zone in wideangle shooting, when the subject is small, or when trying to shoot one of many subjects.

Set to this size to shoot a moving subject or for panning or tilting.

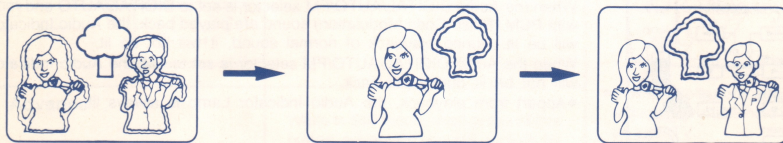
In cases when the autofocus mechanism may focus incorrectly, under conditions such as a low-contrast subject, etc., the Focusing Zone Frame will blink to warn you. Should this occur, focus in the MANUAL position.

## Manual focusing

Set the FOCUS selector to the MANUAL position and rotate the focus ring. Pressing the FOCUS button during manual operation engages the autofocus function. Releasing the FOCUS button locks the focus at that particular lens setting (Focus Lock).

## Focus Lock

Use this function when the subject is not positioned in the center of the viewfinder.

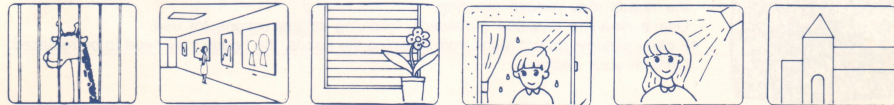


The center portion of the viewfinder is focused in the Autofocus mode.

Select the Manual mode and aim the Movie so that the subject is in the center of the screen. Now press the FOCUS button and hold it for temporary activation of autofocus.

Release the FOCUS button after focusing and return to the original composition. The subject will remain in focus even though it is not in the center of the viewfinder.

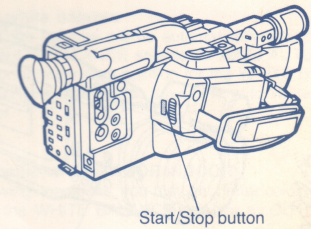
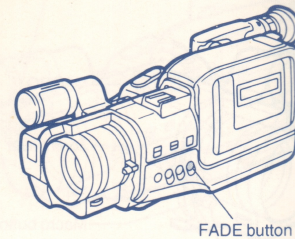
The following subjects could cause the autofocus mechanism to set the focus incorrectly. Select the MANUAL position to focus.



1. Far and near subjects in the same scene.
2. The subject ranges from near to far.
3. Subject has fine horizontal stripes.
4. Subject is behind wet glass.
5. Subject is intensely illuminated.
6. Subject is lacking in contrast, as with a white wall.

## Fade

The FADE button can be used to fade in (gradually changing from a totally dark image to an illuminated one) and to fade out (which is the exact opposite of fading in). Operate the FADE and Start/Stop buttons as described below to use the fade function. The recorded sound will also decrease or increase in volume with the use of this function.



## Fade in

Procedure	(1) Press and hold the FADE button before pressing the Start/Stop button.		(2) Press the Start/Stop button to begin recording, and release the FADE button. Fade-in will begin.		
Viewfinder					
Video Mode	Pause		Record		

## Fade out

Procedure	(1) Fade-out will begin when the FADE button is kept pressed during recording. Once the viewfinder becomes dark, press the Start/Stop button to enter the Record Pause mode.				(2) The viewfinder will return to normal when the FADE button is released.
Viewfinder					
Video Mode	Record				Pause

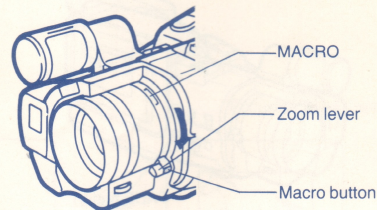
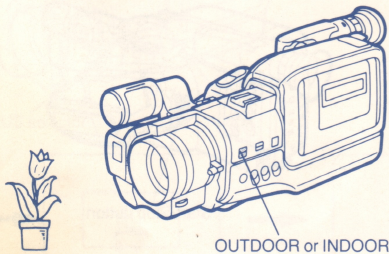
### Extreme close-ups (macro recording)

The macro function can be used for shooting objects within a range of up to 1.2 m (3.9 ft).

- (1) Set the WHITE BALANCE selector to either OUTDOOR (5500K) or INDOOR (3200K) depending on which is appropriate.

- (2) Push the macro button and turn the zoom lever to MACRO.

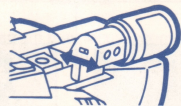
•The power zoom function can no longer be used.



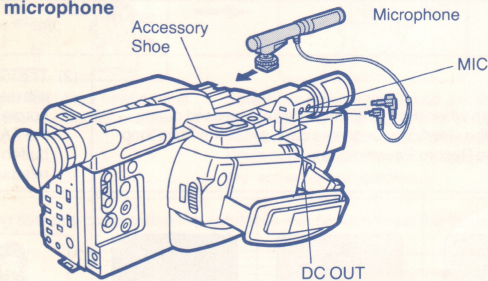
•When the Manual focusing mode is selected, use the zoom lever for focusing.

### Filter Selector

OFF: For normal sensitivity  
ON: For increased sensitivity

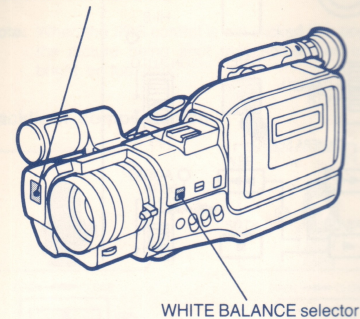


### External microphone



### White balance

Auto white balance sensor



### What is "white balance"?



"White balance" refers to the adjustment of the recording system to the color temperature of the light illuminating the subject to be recorded. Properly adjusted white balance enables accurate recording of the colors in a scene.

### Auto white balance

The white balance will be automatically adjusted when the WHITE BALANCE selector is set to AUTO. This is the normal operating position for the WHITE BALANCE selector. Be sure not to cover the auto white balance sensor.

### Programmed positions (OUTDOOR/INDOOR)

Under the following conditions, you may get better color reproduction if you set the WHITE BALANCE selector to OUTDOOR or INDOOR.

Condition	Program mode	Color temperature
When recording an outdoor scene from indoors, or sunset scene.	 (OUTDOOR)	5,500K
When recording an indoor scene from outside.	 (INDOOR)	3,200K

### High-speed shutter

When shooting fast-action scenes, which you will later want to play back in Still, Frame Advance or Slow-motion mode, set the HIGH SPEED SHUTTER selector to "1/2000", "1/1000", "1/500", "1/250" or "1/100" second. This will assure that even fast-moving subjects will be reproduced without blur in these special playback functions.

For shooting normal scenes, set the HIGH SPEED SHUTTER selector to "OFF".



When the high-speed shutter function is used, the selected shutter speed will be indicated in the EVF.

- The subject must be brightly lit, with little shade, under sunlight or some other illumination of more than 300 lux.
- If shooting under the illumination produced by fluorescent lamps, the picture will be adversely influenced by flickering.
- If the picture is played back in the normal playback mode, the movements may appear to be not very smooth.
- The playback picture will be slightly darker than the picture recorded without using the High Speed Shutter function.
- When the high-speed shutter is set to 1/500 second, narrow black strips may appear at the upper and lower edges of the picture image depending on the monitor.

## Self-timer

### Recording using the self-timer function

Recording starts 10 seconds after the self-timer has been activated.

You can record yourself by mounting the Movie on a tripod and switching to self-timer recording.

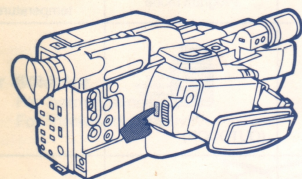
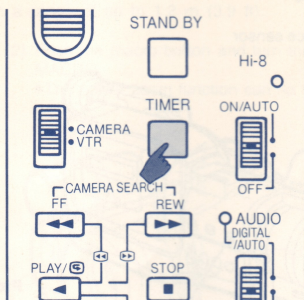
- Engage the Camera mode with the VTR/CAMERA selector. Then press the TIMER button to select the "SELF-20S" or "SELF-END" Indication on the EVF.

SELF-20S: to record for 20 seconds  
 SELF-END: to record until the end of the tape

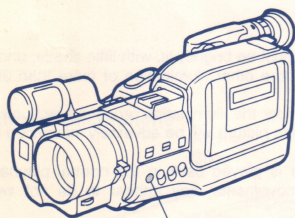
- To cancel self-timer activation, press the TIMER button again.

- Press the Start/Stop button.

- 10 seconds later, the Self-Timer Recording will start.



## Telephoto zooming



Telephoto Button

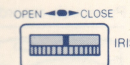
The Telephoto Button lets you enlarge a subject in the middle of the EVF to about twice its size. This makes it possible to immediately double the telephoto effect at any setting of the zoom lens for as long as this button is being pressed.

- When shooting with the Telephoto Zoom function, the Auto Focus does not work and the picture will become grainy.

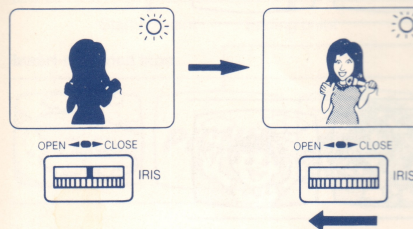
## EXPOSURE AND IRIS-CONTROL

This Movie is equipped with an automatic exposure system which automatically adjust the lens aperture according to the brightness of the subject. For normal use, make sure the IRIS control is clicked into the central position so that automatic exposure works properly.

- Note:** When the IRIS control is not clicked into position, the picture being shot may sometimes be too bright or too dark.



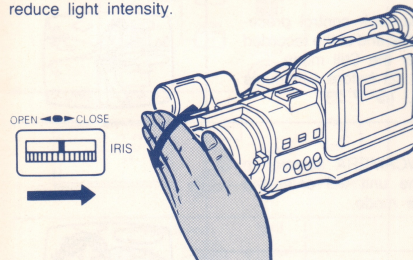
### Backlight compensation



Although the automatic exposure system provides appropriate exposure in most recording situations, strong backlighting of the subject will cause the lens aperture to close, darkening the subject. In such a situation, turn the IRIS control towards the OPEN position to make the subject brighter.

### When the image is too bright

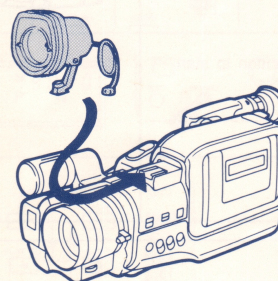
Excessive light leads to overexposure. Turn the IRIS control towards the CLOSE position or use an ND filter to reduce light intensity.



When mounting the filter, remove the lens hood first by turning it while lightly pressing it with palm, and then screw the filter onto the lens. Filter diameter is 49 mm.

An ND2 filter reduces the quantity of light entering the lens by 1/2.  
 An ND4 filter reduces the quantity of light entering the lens by 3/4.

### When the image is too dark



### Illuminance chart

	Lux	Location or daylight
brighter	100,000	Fine weather, noon sunlight
	65,000	Fine weather, 10:00 a.m. sunlight
	35,000	Fine weather, 3:00 p.m. sunlight
	32,000	Cloudy weather, noon sunlight
	25,000	Cloudy weather, 10:00 a.m. sunlight
darker	2,000	Cloudy weather, one hour after sunrise
	1,000	Fluorescent lamp at window side
	1,000	One hour before sunset
	700-800	In a factory
	500-700	Department store, sales counter
	400-500	Fluorescent lamp in an office
	200-300	Indoor tennis court
	100-200	Stairway in a shop
	10	Candle light

For better color reproduction, use appropriate lighting.

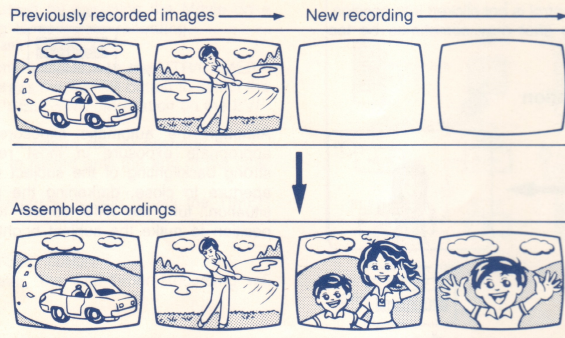
- Values in this chart are approximated to provide a rough reference.

**Notes:** •The Movie allows shooting under a maximum illuminance of 100,000 lux to a minimum of 7 lux. See chart above for reference.

- Avoid direct contact of the Movie with lighting equipment, since heat may cause damage or deformation.

## ASSEMBLE RECORDING

Assemble recording is a method of recording new images following previously recorded images without any visible noise at the point of transition.



Be sure to take the following procedure.

<p>(1)</p>	<p>Follow the playback control procedure to locate the end of the recorded tape and enter the Still mode. [Perform step (2) before 5 minutes have elapsed.] (P. 23)</p>	
<p>(2)</p> <p>CAMERA</p>	<p>Set the VTR/CAMERA selector to CAMERA. The unit will enter the Record Pause mode.</p>	
<p>(3)</p>	<p>Press the Start/Stop button to start recording new images.</p>	

### Note:

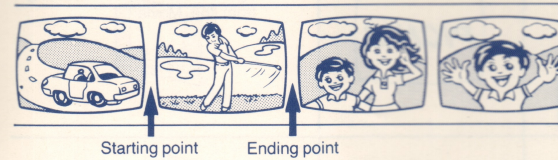
- If you start recording as usual under the following conditions, a few seconds of the previous recording are erased:
  - resuming recording after re-inserting a partially recorded cassette.
  - starting recording after resupplying power (this applies to cases in which the battery is fully discharged and the power turns off automatically.)
  - starting recording after stopping playback (this applies to cases in which the unit enters the Stop mode automatically after being in the Still mode for about 5 minutes.)

To avoid erasing a portion of the previous segment in these situations, follow the above procedure before recording the next segment.

## INSERT RECORDING

Insert recording is to insert new images into a previously recorded tape, designating the ending point in advance using the counter memory function. (Both the picture and sound are inserted simultaneously.)

### Prerecorded tape



### Insert-recorded tape



**PICNIC**

New image

- The new inserted segment can be an image camera-recorded by the Movie or come from other video equipment via the external input terminal.

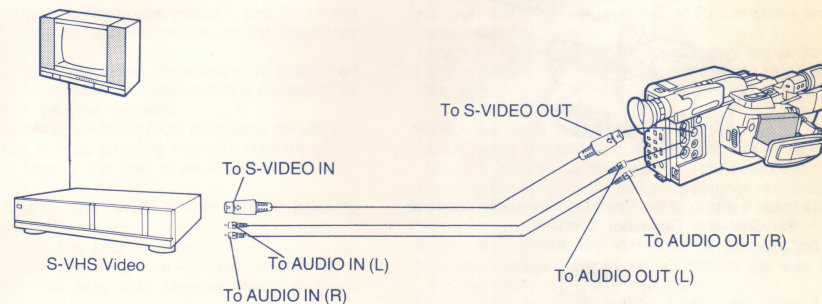
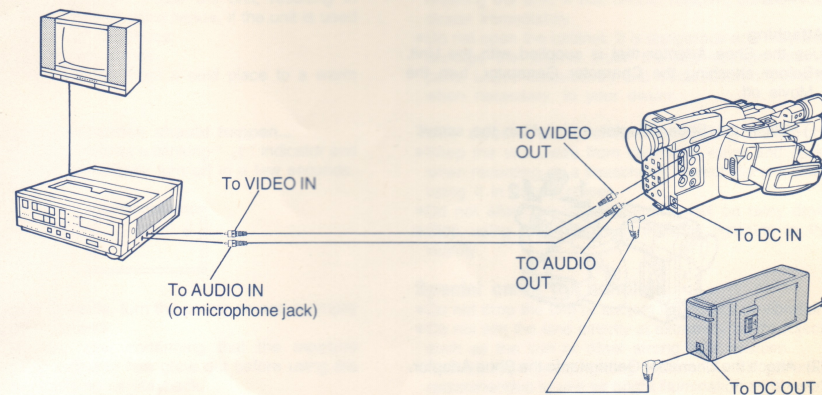
### Insert recording procedure

		<p>(1) Follow the playback control procedure to locate the end point of the insert recording and enter the Still mode. (P. 23)</p>
		<p>(2) Press the RESET button to reset the tape counter to "0000".</p>
		<p>(3) Locate the starting point of the insert recording by pressing the REW/Review button and enter the Still mode.</p>
		<p>(4) Press the counter MEMORY button.</p>
		<p>(5) Press the INSERT button. The Movie will enter the Insert Record/Pause mode.</p>

		<p>(6) Pressing the PAUSE button again starts insert recording from the Movie.</p>
		<p>(7) Insert recording ends and Still mode is entered automatically when the tape counter reading reaches approx. "0000".</p>
		<p>To stop insert recording before the tape counter reads "0000", press the STOP button.</p>

## RECORDING FROM THE MOVIE

Connect a video cassette recorder to the Movie using the Audio/Video Cable (provided).



### How to record

Set the Movie to Play mode (P. 21), and set the video cassette recorder to Record mode. (For operation of the video cassette recorder, refer to its instruction manual.)

- Dubbing introduces some degree of picture quality deterioration. Therefore, it is recommended that the video cassette recorder be used in the SP mode.
- Connect a TV to the recording deck and confirm that the playback picture and sound are normal.
- Dubbing is possible using a video cassette recorder of any format (VHS, etc.), so long as it follows the NTSC television broadcast system standard.

## CHARACTER GENERATOR (optional)

### Character Generator

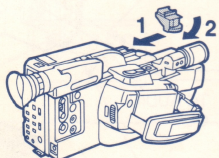
The use of the optional Character Generator makes it possible to record titles, time, date and stopwatch while shooting.

### Attaching

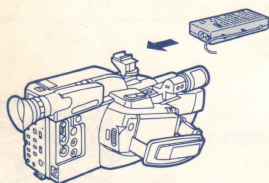
Use the Shoe Adaptor that is supplied with the Unit.

- Before attaching the Character Generator, turn the Movie off.

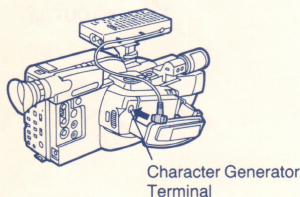
- (1) Attach the Shoe Adaptor and tighten the screw.



- (2) Attach the Character Generator to the Shoe Adaptor.



- (3) Insert the plug of the Character Generator Cord into the Character Generator Terminal.



- For the operation of the Character Generator, see the operating instructions of the Character Generator.

## PRECAUTIONS

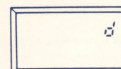
### Moisture condensation

As water vapor in the air condenses on the surface of the window glass of a warmed room in winter, moisture condensation may occur inside the unit, resulting in damage to the tape and video heads, if the unit is used under the following conditions:

- in extremely humid places
- when moving the unit from a cold place to a warm place.

### If moisture condensation should happen...

The indicator panel shows a blinking "d" indicator and the power will automatically turn off in a few seconds.



- If a cassette is inside, turn the power on and promptly remove the cassette.
- Wait one hour after confirming that the moisture condensation indicator has gone out before using the Movie for recording or playback.

### For your information

- Usually, condensation occurs gradually and, for the first 10 to 15 minutes of condensation, no indication may appear.
- In extremely cold areas, condensation sometimes freezes. In such cases, a longer period is necessary for the unit to become operative.
- When returning to a warm room after using the unit in a cold place, such as on skiing slopes, protect the unit in a plastic bag, or the like, to avoid condensation.

### Avoid using the unit under the following conditions:

- Places subject to soot or steam.
- Places subject to excessive humidity, dust or poor ventilation (the lens may become moldy in these places).
- Extremely hot or cold places where temperatures and humidity exceed the ranges from 0°–40°C (32°–104°F) and 35–80%. Especially, leaving the unit in closed cars in midsummer or under direct sunlight is most likely to cause damage and deformation of the unit.
- Near heating appliances.
- Near a television set. (Rolling pictures or interference might result. If such a problem occurs, move the unit away from the television set.)
- Near appliances generating strong magnetic or electric fields (such as fluorescent lights, motors, television sets, or broadcasting antennas).

### For safety, strictly observe the following instructions:

- Prevent inflammables, water and metallic objects from entering the unit. If this should happen, contact your dealer immediately.
- Do not open the cabinet. It is dangerous and may also damage the unit to touch the high-voltage internal parts. Leave disassembly and modification of the unit, when necessary, to your dealer.

### Take special care when recording outdoors

- Keep the unit away from splashing water and spray when recording on a seashore. Protect the unit when using it in sandy places.
- Do not allow the unit to become wet on rainy days.
- Stop using the unit when there is lightning in the vicinity.

### Special cares for handling

- Do not drop the unit or subject it to shock or vibration.
- Do not aim the lens directly at extremely bright objects such as the sun or other strong light sources.
- Choose appropriate lighting equipment. It is generally recommended to use as bright illumination as possible for better picture quality. It may be difficult to obtain correct color with fluorescent lighting.
- Be sure that the power is off and put the cap on the lens after recording.
- Keep the lighting equipment appropriately distant from unit to avoid deformation and damage due to heat from the light.

### Keep the unit horizontal

- Avoid using the unit with the cassette holder facing down. It may cause the tape to wind improperly or become too slack, which can cause damage to the tape itself.

### When the Video AC Adapter is connected

- Before unplugging the Video AC Adapter, be sure to first cut off power to the main unit.
- If not used for a long period, unplug the Video AC Adapter cord from the wall outlet. Occasionally turn the power on to check if the unit operates properly.

### Video cassettes

- Do not drop the cassettes. Do not expose them to violent vibration or shocks.
- Slack in the wound tape can cause damage to the tape. Rewind the tape once again.
- Place the cassettes in cassette cases and position them vertically.
- Avoid exposing the cassettes to direct sunlight, and placing them near a heater, humid or dusty places.
- Avoid exposing the cassettes to strong magnetic fields. It may cause damage or erasure of the recording on the tape.

### Keep the unit clean

- When cleaning the cabinet, do not use benzene, thinner or other harsh cleaning detergents to avoid peeling and other damage to the surface.
- Gently wipe off dust and soil from the cabinet and control panel with a soft cloth. For persistent soil, use a cloth moistened with a mild cleaning agent and then a dry cloth.
- When the lens is dirty or dusty, blow it off and gently wipe with a soft brush or lens cleaning paper.
- Keep the unit away from insecticide or other volatile agents. Also avoid long-time contact with rubber or vinyl-coated products.

### Connection to other units

- Carefully read also the instruction manual of the machines to be connected to this unit. Keep the manuals in an easily accessible place.
- A small portable tripod does not offer satisfactory mounting stability. Do not use such a tripod.

### Maintenance is recommended to view a beautiful picture

The unit is used to record or play back video pictures on magnetic tape, requiring very high precision. Especially, the video head and the mechanical section that operates tape-transport can become dusty or worn with long-time use. In order to ensure top performance and to view beautiful pictures constantly, it is recommended that you schedule checking by service personnel (cleaning, oiling, repairing parts, etc.) approximately every 1,000 hours (varies depending on environmental conditions such as temperature, humidity, dust, etc.).

For details, consult your local OLYMPUS dealer.

### When using the Movie abroad

- The appropriate conversion plug (commercially available) must be used when using the Video AC Adapter in other countries.
- It is not possible to use the Movie in combination with a TV in countries where the broadcasting system or frequency is different.

## SPECIFICATIONS

### Hi8 Movie VX-H804-U

Television System:	EIA Standard (525 lines, 60 fields) NTSC color signal
Tape Format:	8 mm video format
Tape Speed:	0.565 in./sec. (14.345 mm/sec.)
Record/Playback Time:	120 min. with E6-120/P6-120 tape
Heads:	Video: Three rotary heads (helical scanning system) Audio: Two rotary heads Erase: Flying erase head
Fast-Forward/Rewind Time:	Approx. three min. with P6-90 tape
Audio:	FM monaural/PCM Digital stereo
Imaging Device:	1/2" CCD (Charge Coupled Device)
Camera Lens:	8:1 zoom lens, f1.2 with auto/manual iris control Focal length: 8.5-68 mm Power zoom with 2 zooming speeds and auto focus macro functions Filter diameter: 49 mm
Focusing:	Piezo autofocus with 3 focusing zone modes, manual focus and focus lock
Electronic Viewfinder:	Built-in 2/3" black and white CRT with diopter adjustment
Microphone:	Uni-directional electret condenser stereo microphone with selectable sensitivity (normal/high)
White Balance Control:	Full auto white balance/Two programmed positions (INDOOR: 3200K/OUTDOOR: 5500K)
Minimum Light Intensity:	7 lux at f1.2
Electronic Shutter:	Five positions (1/2000 sec.; 1/1000 sec.; 1/500 sec.; 1/250 sec.; 1/100 sec.)
Video Output Level:	1.0 Vp-p 75 ohm unbalanced
Audio Output Level:	400 mV 600 ohm
External Microphone Input Level:	-70 dB 4.7 kohm matching microphone (mini jack)
Dimensions:	5 1/16" (W) x 5 9/16" (H) x 13 13/16" (D) (127.5 x 140.9 x 349.4 mm)
Weight:	3.24 lbs. (1.47 kg) without battery pack
Power Source:	DC 7.2 V
Power Consumption:	10.2 W

### Video AC Adapter VF-BA84-U

Power Supply:	AC 120 V, 50/60 Hz (U.S.A. Canada) AC 110/220/240 V, 50/60 Hz (Foreign Countries)
Power Consumption:	22 W
DC Output:	DC 8.7 V 1.2 A
Weight:	1.15 lb (0.52 kg)
Dimensions:	2 5/8" (W) x 2 1/16" (H) x 7 9/16" (D) (66 x 67 x 192 mm) (Power cord not included.)

\*Specifications, design and accessories are subject to change without any obligation on the part of the manufacturer.