



SANYO

VM-8P

8



AF
Auto Focus

VISION 8

SANYO
VISION 8

OWNER'S MANUAL

CONGRATULATIONS. You are now the owner of one of the many fine products manufactured by Sanyo Electric Co., a world-wide leader in electronics. We take pride in our international reputation for product quality and industry proven performance.

This product has been carefully inspected to comply with rigid quality control standards before shipment to you. We are sure you will find that with reasonable care it will provide you with years of reliable performance.

Considering the investment you have made, we know that you will want to obtain the full performance capability engineered into your new Sanyo product. Therefore, may we recommend that you read this owner's manual thoroughly before attempting to operate this unit.

Recording and playback

*The Vision 8 uses the 8 mm Video system.

Be sure to use only 8 mm Video cassettes with this unit.

*Because of differences in TV broadcasting standards, some prerecorded tapes produced in other countries may not be playable on this Vision 8.

WARNING: TO PREVENT RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FEATURES

Combined camera and video deck For camera recording and playback in a single unit.	(pp. 15 and 26)
A variety of power supply systems Allow you to select the best one to match the recording location.	(p. 10)
Infrared auto focusing For simple focusing adjustments even in dimly lit places.	(p. 21)

CAMERA SECTION

Electronic viewfinder Lets you watch the picture as it is being recorded, and also watch immediate on-the-spot playback.	(p. 20)
Recording review function So you can recheck the last few seconds of the recording.	(p. 20)
Viewfinder indicator lamps Provide you with important information during recording.	(p. 9)
Six-power zoom That can be adjusted either manually or automatically.	(p. 24)
Exposure correction switch Adjusts the exposure for a natural picture even with backlighting or extremely strong lighting.	(p. 24)
White balance adjustment Automatically finds the optimum colour tones.	(p. 23)

VIDEO DECK SECTION

Insert function For editing recorded tapes.	(p. 35)
Still image and picture search Stop or speed up the playback picture.	(p. 29)
Memory function Returns to the "0000" on the counter.	(p. 29)
Display window For important warnings and indicators.	(p. 7)

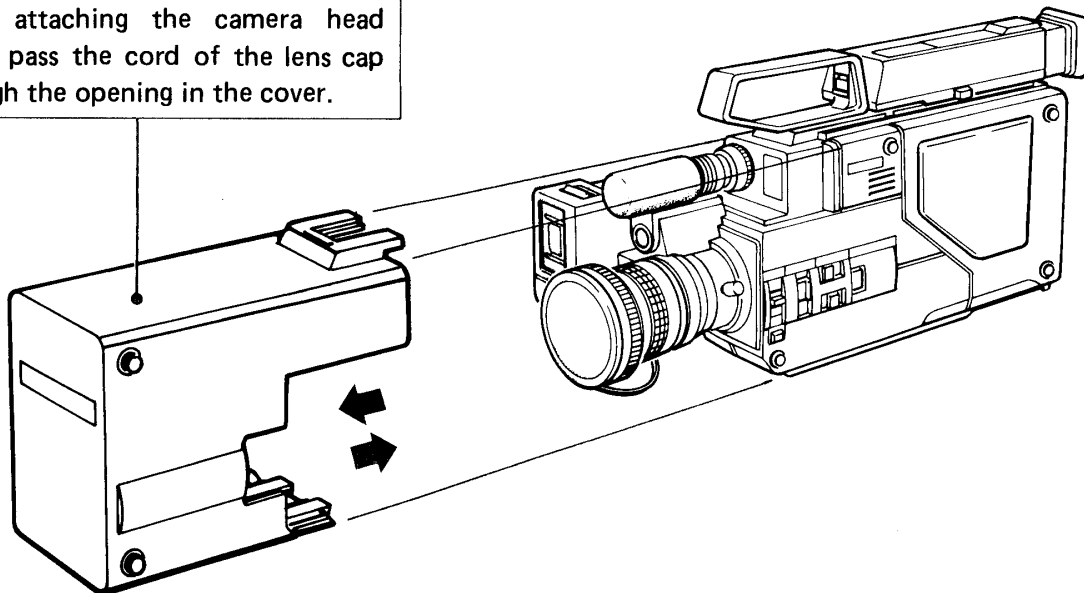
CAUTION

- * Before making important recordings, first check the equipment by making a test recording to confirm that both the video and audio recording are correct.
- * Sanyo cannot be held responsible for the loss of recorded contents due to malfunctions of the Vision 8 and/or video tape.
- * The use of recorded television broadcasts, live performances, etc., for any purpose other than your personal enjoyment without the express consent of the copyright holder is prohibited by law.
Note that, in some cases, the recording of live performances, even for personal enjoyment, can be legally prohibited by the performers and/or sponsors of said performance.

Remove the camera head cover from the Vision 8 during camera recording, and attach it when recording from the TV or at other times when the camera section is not in use, and also when transporting the Vision 8.

CAMERA HEAD COVER

When attaching the camera head cover, pass the cord of the lens cap through the opening in the cover.



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PART NAMES AND FUNCTIONS

For detailed explanations of the various parts and controls, refer to the pages indicated.

CAMERA SECTION

Accessory shoe (p. 16)

For attachment of the handle, viewfinder, EVF adaptor, or a video light.

Brightness adjustment screw

Use a Phillips screwdriver to turn the screw and adjust the brightness of the viewfinder screen.

VIEWFINDER connector

For connection of the viewfinder.

Handle

Power zoom button (p. 24)

Microphone (p. 25)

Battery compartment and battery release button (pp. 11 and 12)

For insertion of the NP-22 Battery Pack or the VAP-8P AC Pack

Cord hanger (p. 12)

Attach the VAP-8P AC PACK cord here so that it does not obstruct the infrared emitter.

Lens cap snap

Attach the lens cap here while the camera is in use.

Grip belt (p. 15)

Holds your hand securely.

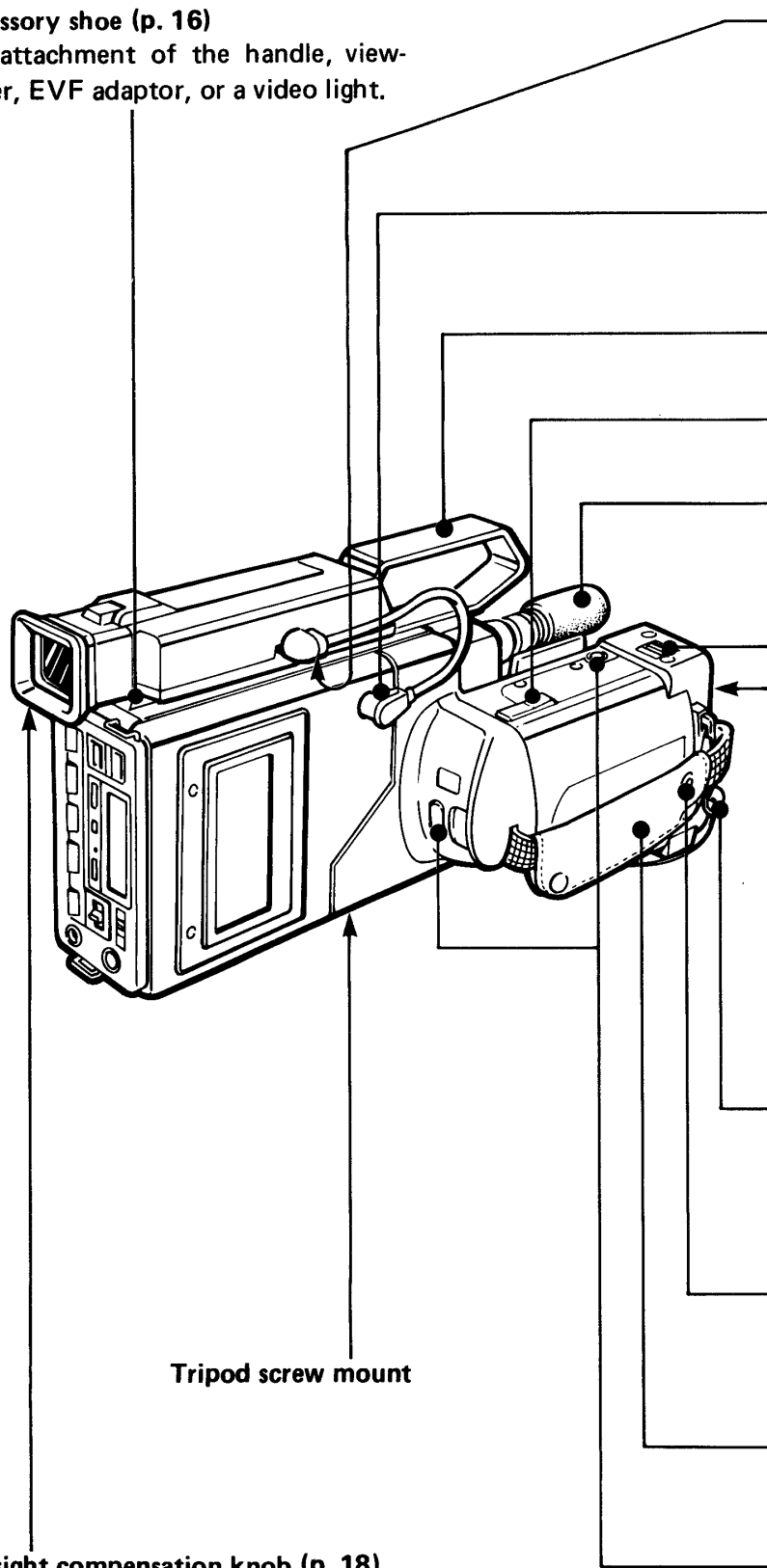
START/STOP button (pp. 15 and 19)

Press to start and stop recording.

Tripod screw mount

Eyesight compensation knob (p. 18)

Adjust when first using the Vision 8 in order to ensure accurate focusing.



Focus ring (pp. 18 and 22)

Adjust the focus while looking in the viewfinder.

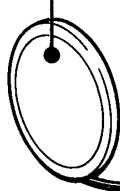
Infrared receiver (p. 21)

Receives the infrared rays reflected by the subject during auto focusing in order to measure the distance.

Infrared emitter

Emits infrared rays toward the subject during auto focusing.

White lens cap (p. 19)



Lens hood

Should usually be mounted on the lens. Can be removed by turning counterclockwise.

Manual zoom lever (p. 24)

For manual zoom control.

FOCUS switch (pp. 18 and 22)

Set for either manual or automatic focusing.

PUSH AUTO button (p. 22)

Auto focus functions only while this button is being pressed.

Tape travel/battery lamp (p. 9)

Has the same function as the tape travel/battery lamp inside the viewfinder.

EVF release button (pp. 16 and 18)

Remove the viewfinder by sliding it while pressing this button.

VEF-8 Viewfinder (pp. 9 and 20)

The recording image and playback image can be viewed in black and white. Also, indicator lamps provide information needed during recording.

 **REC REVIEW button (p. 20)**

If this button is pressed during recording pause, the last few seconds of the recording will be rewound and played back, and then recording pause will be resumed.

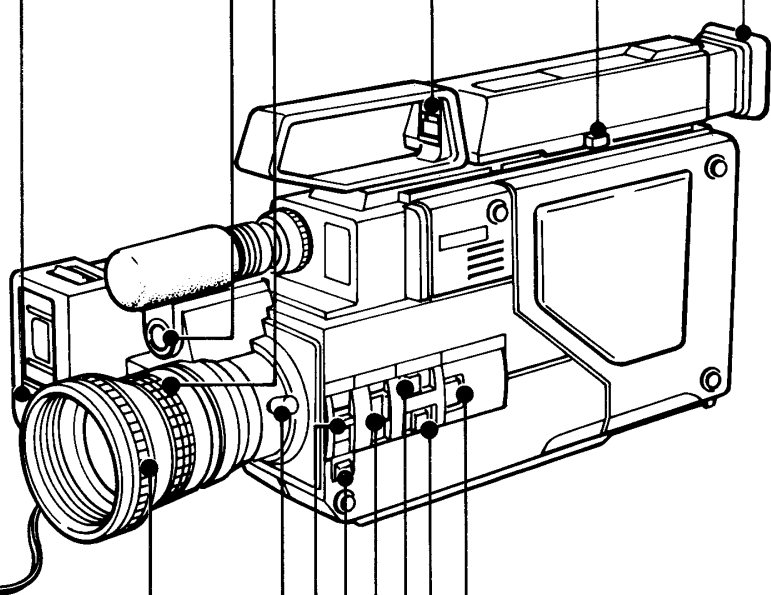
Exposure correction switch (p. 24)

Adjusts the lens aperture.

CAMERA POWER switch and lamp (pp. 13 and 18)

WHITE BALANCE switch (p. 23)

For automatic or manual white balance adjustment.



VIDEO DECK SECTION

VTR POWER switch and lamp (p. 13)

Press to turn on the power of the video deck section; the lamp will light up. Press again to turn off the power.

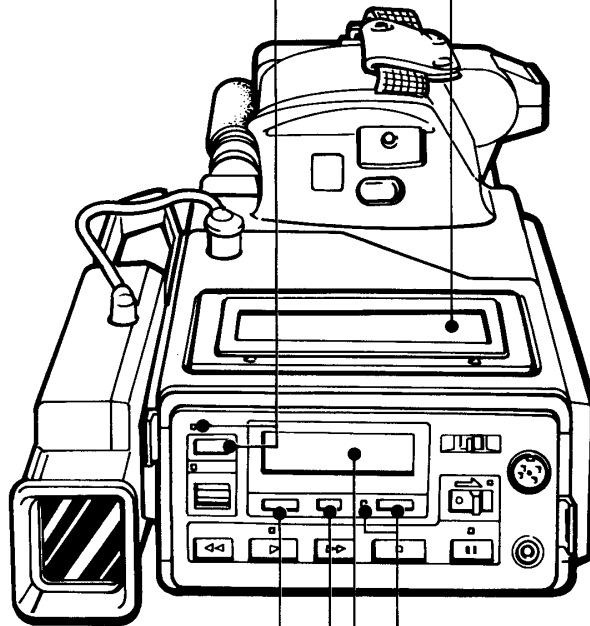
Cassette holder (p. 14)

Load the 8 mm video tape cassette in here.

MULTICONNECTOR (p. 26)

For connection of the VTT-8P Video Tuner Timer or VAF-8P RF Multi-connector.

Open the cover by sliding it in the direction indicated by the arrow.



RESET button (pp. 29 and 35)

Press to return the counter to "0000".

MEMORY button (pp. 29 and 35)

If the ►► or ◀◀ button is pressed after the MEMORY button has been pressed and the MEMORY indicator appears, the tape will be fast-forwarded or rewound and automatically stop when the counter reads "0000".

INSERT button and lamp (pp. 35 and 36)

If this button is pressed during playback pause, the mode will change to insert pause and the lamp will light up. With insert recording, re-recording is possible at a specified place on a previously recorded tape.

Display window

Blinks when dew forms in video deck (p. 36).

Blinks when battery power is low (p. 11).

Number changes according to tape movement.

Blinks at following times (p. 41).

* End of tape is reached during recording.

* No cassette in cassette holder during CAMERA mode.

* Cassette's erasure-prevention knob is set to red position during CAMERA mode.

Lights up during memory function (pp. 29 and 35).



EJECT button and lamp (p. 14)

After turning on the power, press this button to open the cassette holder and insert or remove a cassette.

REC MODE/EDIT switch (PP. 18 and 34)

During recording, this switch functions as the recording tape speed SP/LP selector.

The recording time of a cassette in the LP mode is 2 times that in the SP mode. During playback, normally keep this switch in the left position. Only when playing back a tape for the purpose of recording the playback with another recorder, set this switch to the right "EDIT" position.

○ (RECORD) switch and lamp (pp. 13 and 30)

If this switch is set to the right during the VTR mode, recording will begin and the lamp will light up.

If it is set to the right during the VTR-CAMERA mode, the Vision 8 will enter the recording pause mode, and the ○ lamp and the ■ lamp will both light up. To begin recording, press either the ■ button or the START/STOP button.

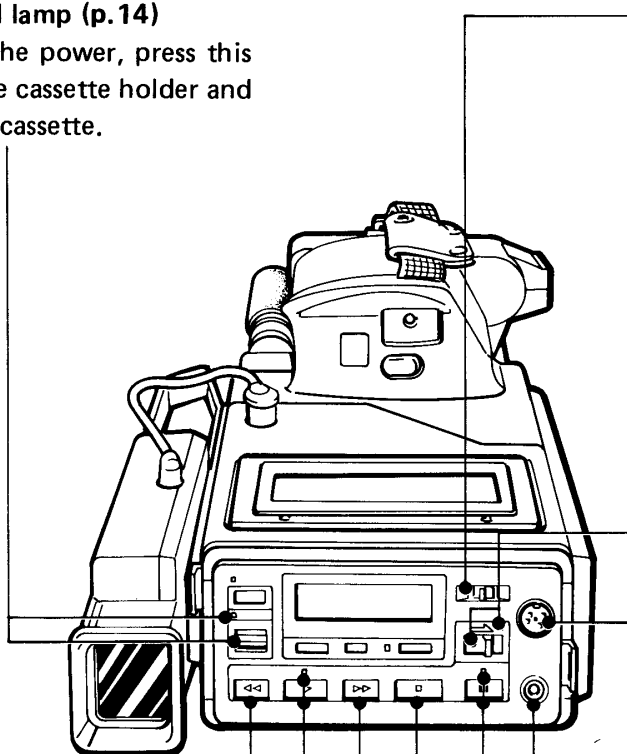
This switch will not function during the CAMERA mode. To begin recording during this mode, press the START/STOP button.

REMOTE terminal (5-pin connector) (p. 25)

For connection of the VRM-8 Remote Controller (sold separately) to allow operation of the Vision 8 from a distance.

EARPHONE terminal (mini jack) (p. 20)

For connection of the included earphone to allow the sound to be heard during recording or playback.



◀◀ (REWIND) button

Press to rewind the tape. Press during playback to scan the picture in reverse search.

▶ (PLAY) button and lamp

Press to play back a tape; the lamp will light up. The playback image can be seen in the viewfinder or on a television screen.

▶▶ (FAST FORWARD) button

Press to fast-forward the tape. Press during playback to scan the picture in forward search.

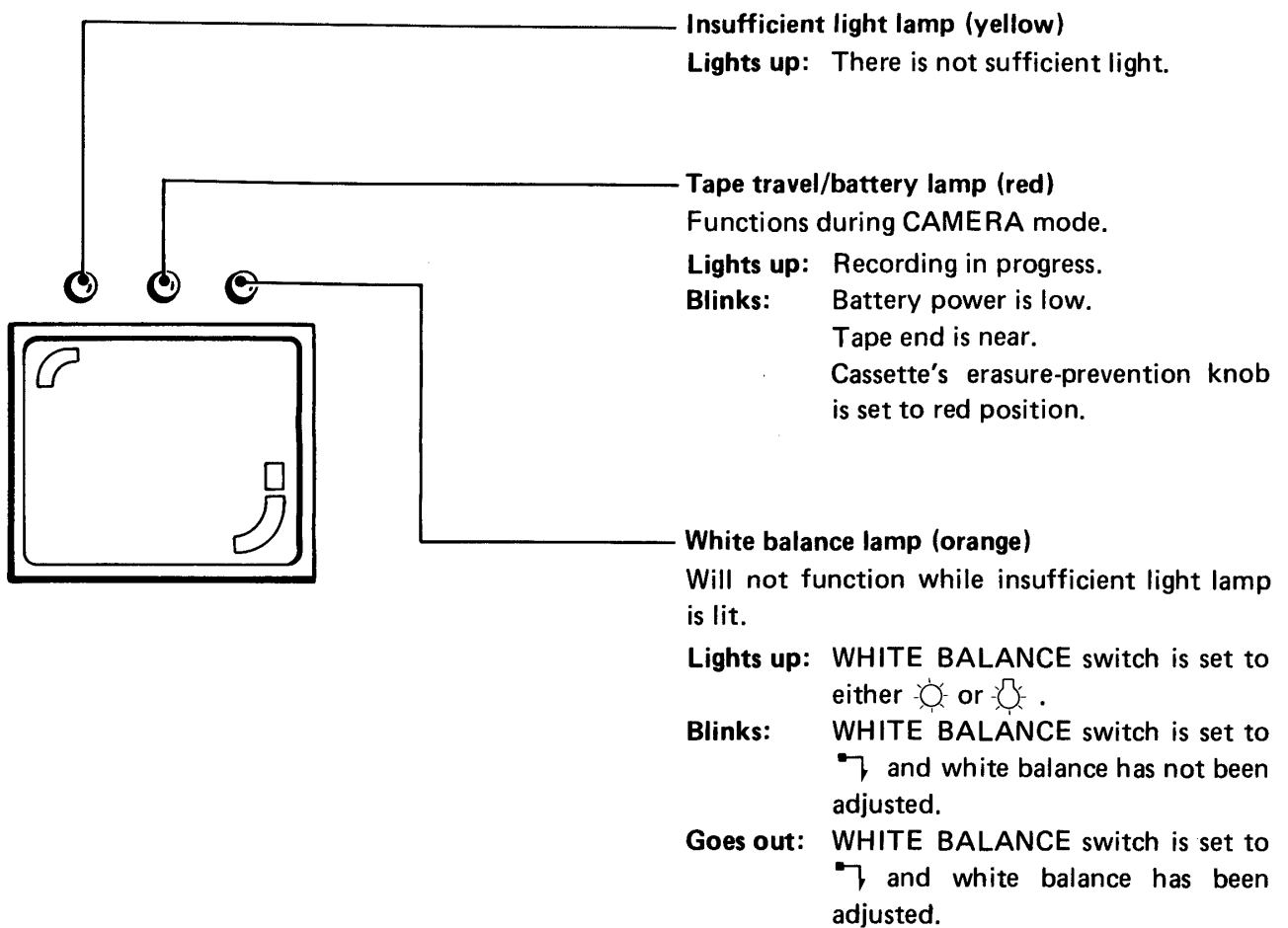
■ (STOP) button

Press to stop tape travel.

■ ■ (PAUSE) button and lamp

Press to temporarily stop tape travel during playback or recording; the lamp will light up. During playback you will be able to see a still picture. Press again to resume tape travel.

VIEWFINDER INDICATOR LAMPS (p. 41)



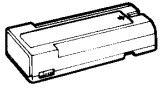
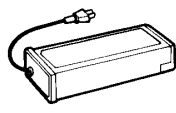
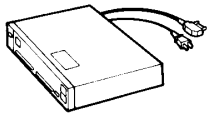
POWER SUPPLY

CONCERNING THE POWER SUPPLY

SELECTING A POWER SUPPLY

Use of the accessories listed below allows the Vision 8 to be run on either household electrical current or a battery pack. Select the power supply to match the location where the Vision 8 is to be used.

Instructions are given here for the Battery Pack and the AC Pack. For information on using other equipment, refer to the appropriate owner's manual.

Location used	Power supply	Accessory
Outdoors	Battery pack	 NP-22 Battery Pack
Indoors	Household electrical outlet	 VAP-8P AC Pack
		 VTT-8P Video Tuner Timer

When using the VTT-8P Video Tuner Timer

Using the Vision 8 in combination with the VTT-8P Video Tuner Timer will provide not only a power supply and battery charging, but will also allow playback of tapes, recording of television broadcasts, timer recording, and tape editing. For details on connections and operation, refer to the VTT-8P's owner's manual.

Note

If the power supply is cut off for some reason during recording or playback, immediately restore the power supply and turn on the power switch again. If the Vision 8 is left without power, the tape could be damaged.

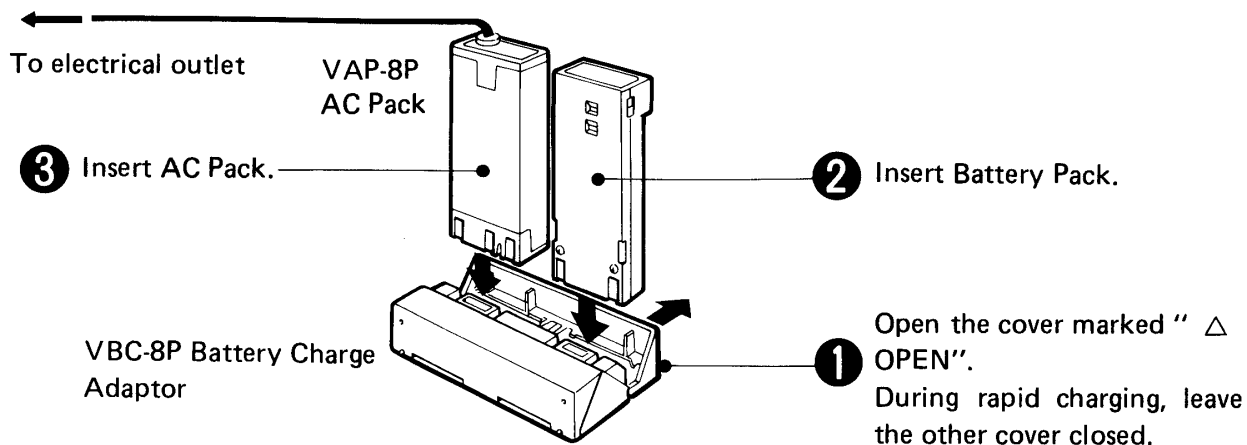
BATTERY PACK

Charging

The Battery Pack can be charged by using the VAP-8P AC Pack and the VBC-8P Battery Charge Adaptor.

Rapid charging


A single Battery Pack can be charged in approximately one hour. When charging is complete, the CHARGE lamp will go out and charging will stop automatically.



Normal charging

As many as three Battery Packs can be charged in approximately eight hours. Slide the RELEASE switch in the direction indicated by the arrow and open the other cover. When charging is complete, the CHARGE lamp will go out and charging will stop automatically.

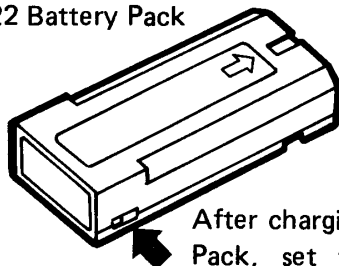
Battery Pack operating time

A fully charged Battery Pack will provide approximately one hour of operating time. When the battery power becomes low, the  indicator in the display window will blink on and off.

Note: The available operating time will decrease if the Battery Pack is not fully charged or if the ambient temperature is extremely low.

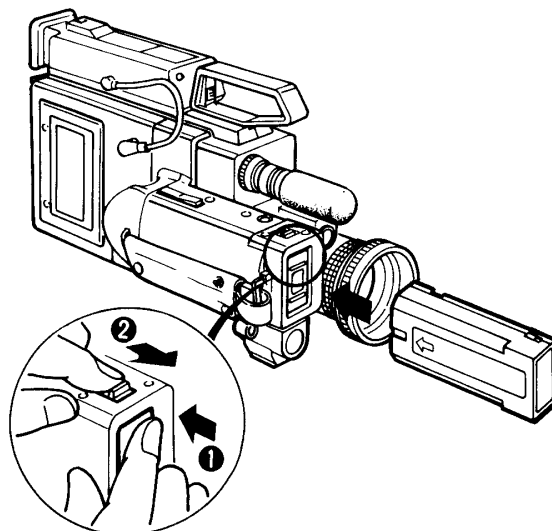
Use the switch on the side of the Battery Pack to indicate whether the Battery Pack has been recharged or is depleted.

NP-22 Battery Pack



After charging the Battery Pack, set the switch so that the red circle is not visible.

Insertion and removal of the Battery Pack



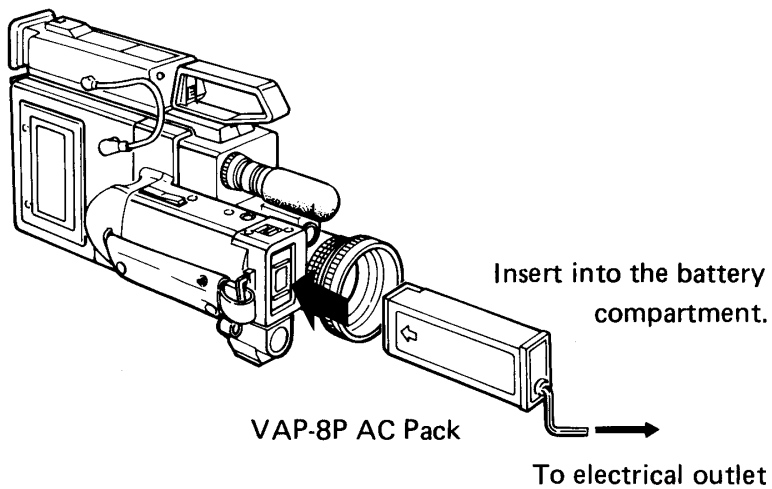
To remove: While pushing in on the Battery Pack, press the release button in the direction indicated by the arrow.

Charge the Battery Pack after using it.

AC PACK

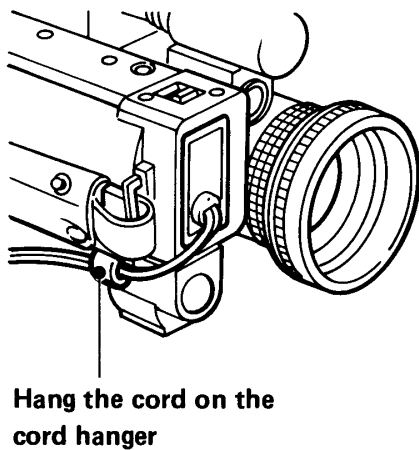
Connection

Insert the AC Pack into the battery compartment with the metal part facing inward. Remove the AC Pack in the same way as the NP-22 Battery Pack.



Note

If the power supply is cut off for some reason during recording or playback, immediately restore the power supply and turn on the power switch again. If the Vision 8 is left without power, the tape could be damaged.



THREE POWER SUPPLY MODES

The Vision 8 is equipped with two power switches; select the mode to suit your purpose and press the corresponding power switch.

MODE	CAMERA MODE	VTR MODE	VTR-CAMERA MODE
To use	Camera recording	<ul style="list-style-type: none"> ● Tape playback ● TV recording, etc. 	<ul style="list-style-type: none"> ● Camera recording ● Tape playback ● Insert recording, etc.
Power switch	CAMERA POWER switch	VTR POWER switch	VTR POWER switch and CAMERA POWER switch
Lamp which lights up	CAMERA POWER lamp	VTR POWER lamp	VTR POWER lamp and CAMERA POWER lamp
To begin recording	The Vision 8 is in recording pause, so press the START/STOP button.	Set the "○" (RECORD) switch to the right.	First set the "○" switch to the right to set the Vision 8 to recording pause, then press either the "■" button or the START/STOP button. (When the Vision 8 first changes from the VTR mode to the VTR-CAMERA mode, it will automatically be set to recording pause, so simply press either the "■" button or the START/STOP button.
To turn off the power	CAMERA POWER switch	VTR POWER switch	VTR POWER switch or CAMERA POWER switch

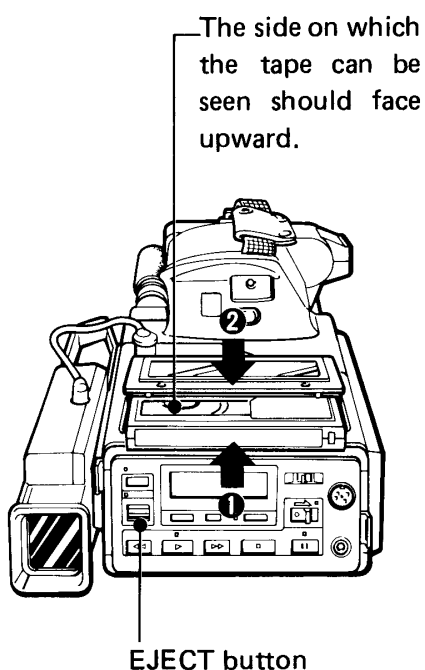
CONCERNING 8 MM VIDEO TAPE CASSETTES

Be sure to use only 8 mm video tape cassettes with this unit.

Load the video tape cassettes only in the specified direction; video tape has one side only.

LOADING

1. Turn on the power.
(Refer to page 13 for instructions on how to turn on the power. A cassette can be loaded in any mode.)
2. Press the EJECT button.
3. Insert the cassette ①, and press the cassette holder closed ②.

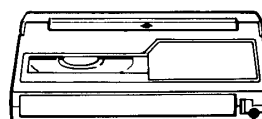


UNLOADING

1. Turn on the power.
2. Press the EJECT button.
3. Remove the cassette and close the cassette holder.

ERASURE-PREVENTION KNOB

Re-recording on a previously recorded tape will erase the previously recorded material. If you wish to keep recorded material, set the knob on the cassette to the red position.



Recording will not be possible while the knob is set to the red position.

If the knob is set to the red position, recording will not be possible, even if the cassette is mistakenly loaded in the Vision 8, so important recordings cannot be accidentally erased.

To record on the same tape again, reset the knob to its original position.

Note

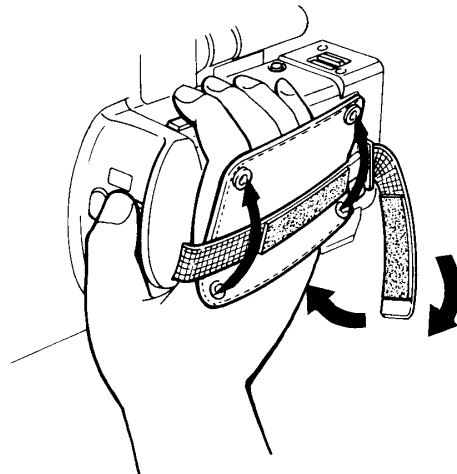
- * Do not cover the holes on the bottom of the cassette. These holes are used to determine the type and length of tape and whether or not recording is possible.
- * Store the video tape cassettes in their case and standing upright (vertical); this will prevent the entrance of dust and uneven tape winding.

CAMERA OPERATION

CAMERA RECORDING

HOLDING THE VISION 8; Adjust the grip belt length.

1. Position your hand so that you can easily operate the **START/STOP** button and the power zoom button.
2. Open the belt cover, and pull the belt so that your hand is held securely.
3. Fold the belt and secure it.
4. Close the cover.



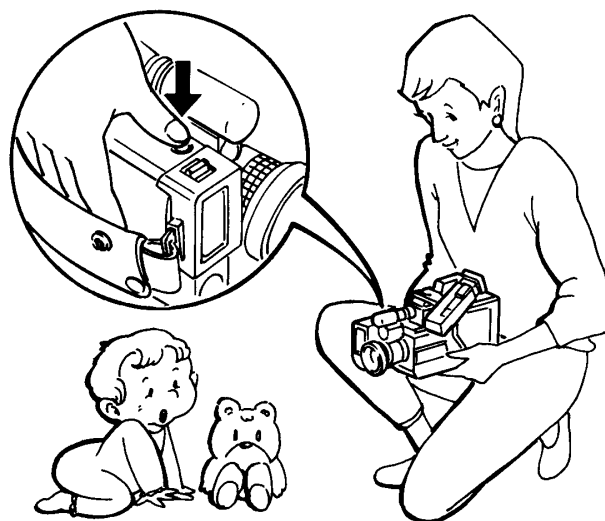
Pass your right hand through the grip belt, support the bottom of the Vision 8 with your left hand, and keep your arms tight against your body.

Supporting the Vision 8



Bring the viewfinder up to your eye and the Vision 8 can be held stable.

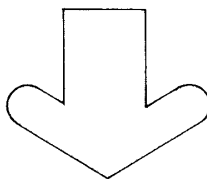
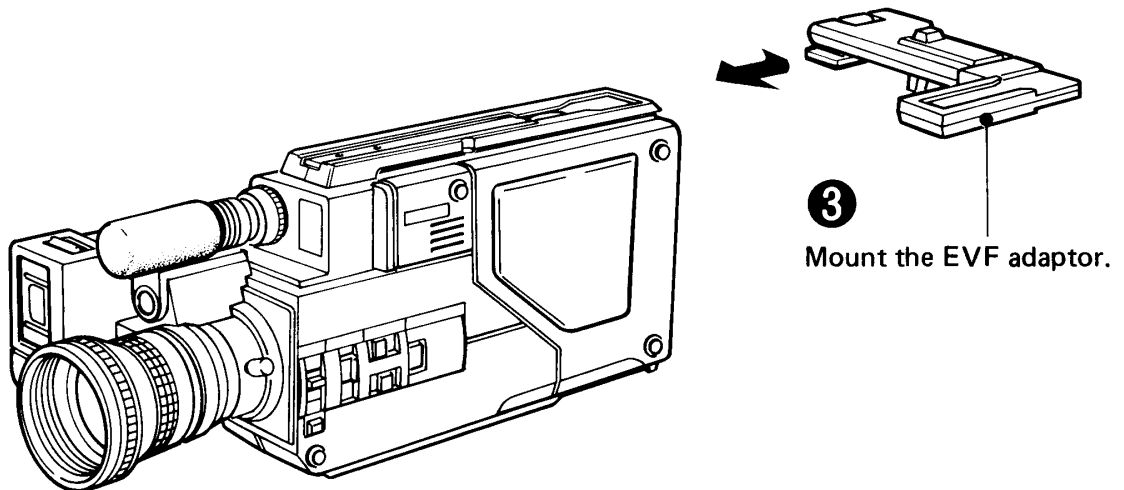
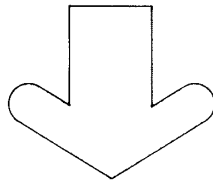
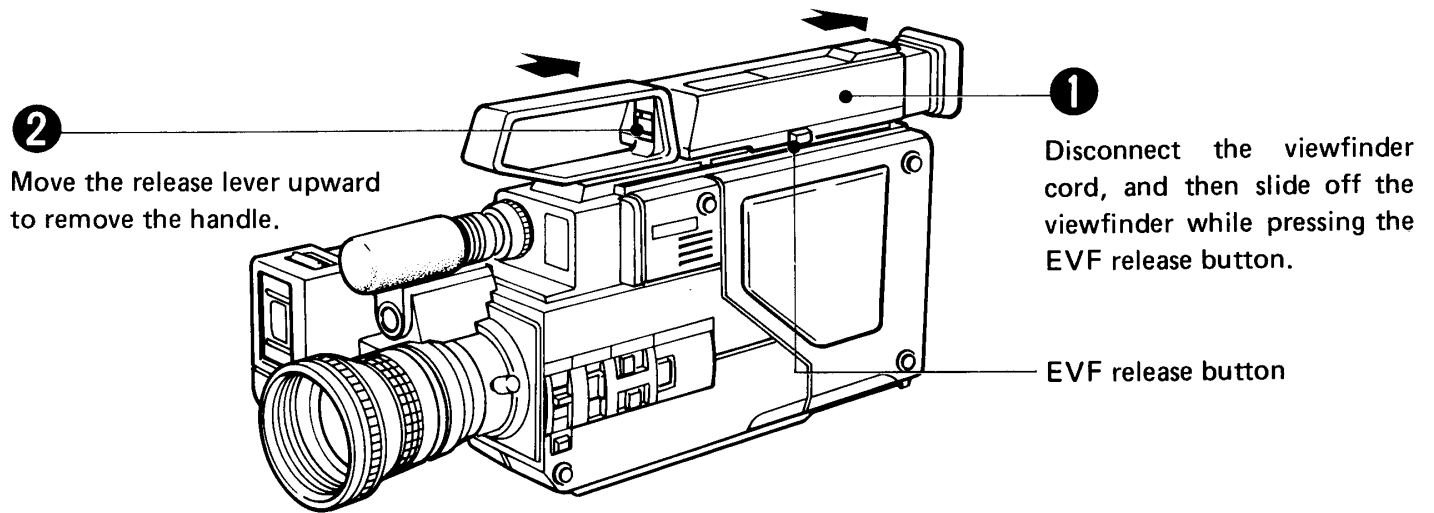
For low-angle shots



Use this **START/STOP** button for camera recording.

SHOULDER-REST RECORDING

Mount the included EVF (electronic viewfinder) adaptor onto the accessory shoe.

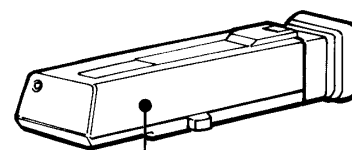
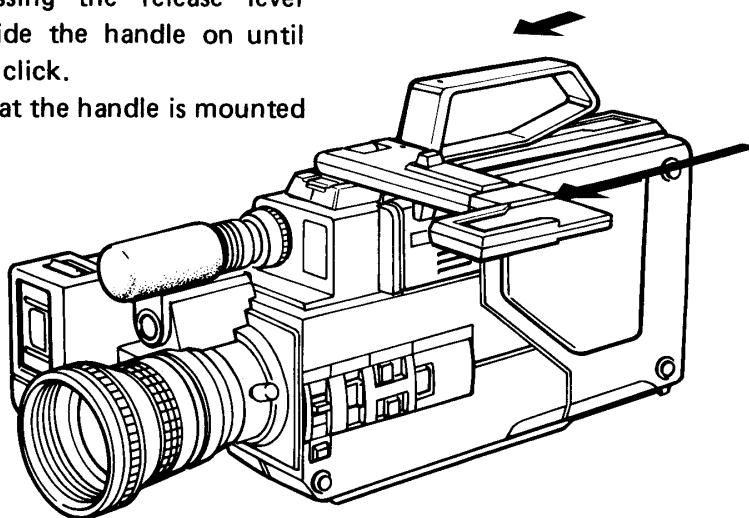


To next page

- 4** Reverse the direction of the handle and mount it so that the red circle is aligned with the red circle on the EVF adaptor.

While pressing the release lever upward, slide the handle on until you hear it click.

Confirm that the handle is mounted securely.



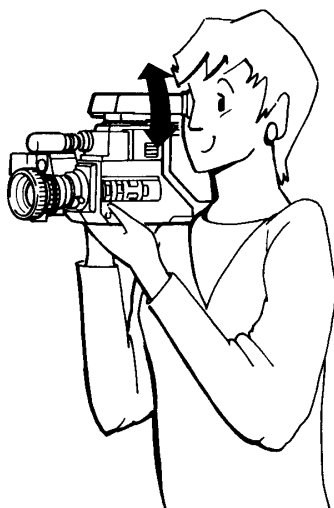
- 5** Mount the viewfinder onto the EVF adaptor.

- 6** Connect the viewfinder cord to the VIEWFINDER connector.

HOLDING THE VISION 8 DURING SHOULDER-REST RECORDING

Adjust the angle of the viewfinder to a comfortable position.

For stable recording, keep your upper arms tight against your body.



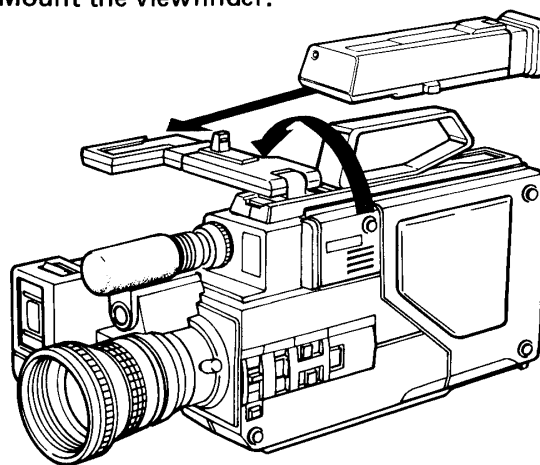
Note

The EVF adaptor is specially designed for the viewfinder; do not attempt to mount a video light, etc., onto the adaptor.

To sight through the viewfinder with your left eye

Flip the EVF adaptor over to the other side.

Mount the viewfinder.

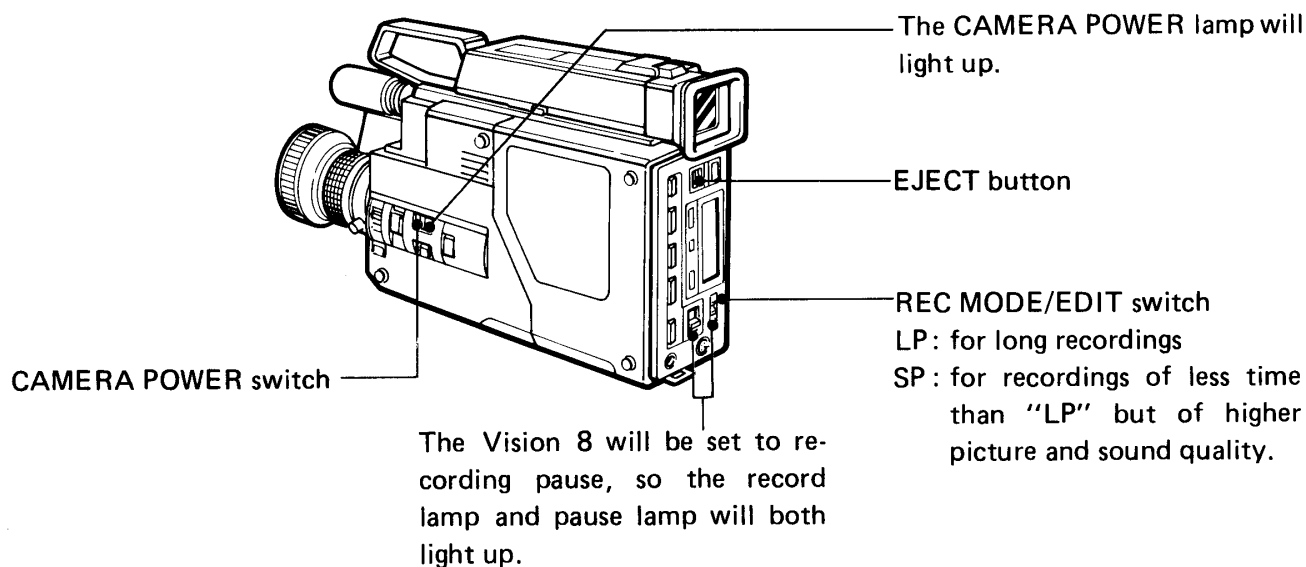


CAMERA RECORDING

- 1** Set the REC MODE/EDIT switch to the desired position according to the length of the programme to be recorded.

Press the CAMERA POWER switch to turn on the power (CAMERA mode).

Press the EJECT button and insert a cassette. (Refer to page 14 for instructions on how to load the cassette.)

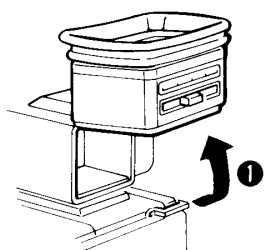


- 2** Adjust the eyesight compensation.

Each person's eyesight is slightly different, so the eyesight compensation must be adjusted the first time you use the camera and each time the person doing the recording changes.

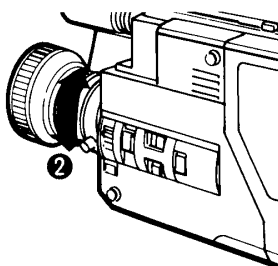
1

Fold up the eyepiece part of the viewfinder.



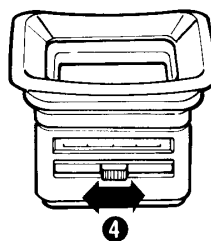
2

Adjust the focus ring to obtain a sharp focus.



3

Fold the eyepiece back down.



4

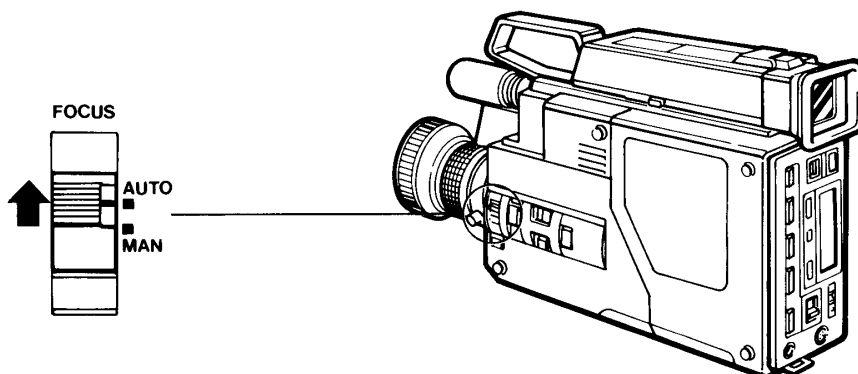
While pressing the EVF release button, slide the viewfinder forward slightly.

Adjust the eyesight compensation knob so that the picture is in sharp focus.

5

Slide the viewfinder back into place.

- 3** Set the FOCUS switch to AUTO. (Refer to page 21 for further details.)



4

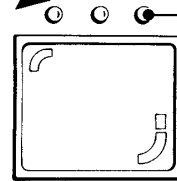
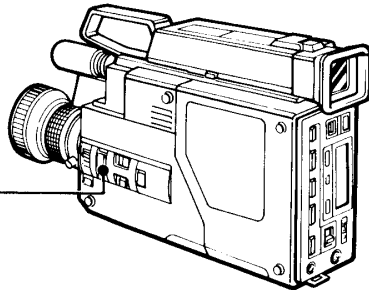
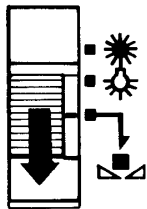
Adjust the white balance (automatic adjustment).

With the lens cap in place on the lens, aim the lens at the light source if indoor or at the subject if outdoor (keep the lens at least 2 m from the subject).

Press the WHITE BALANCE switch all the way downward from the " " position, and then slowly release it. The switch will return to the " " position.

WHITE BALANCE switch

WHITE BALANCE



When automatic adjustment is complete, the white balance lamp will go out.

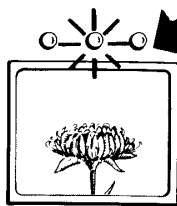
When automatic adjustment is complete, the white balance lamp (orange) will go out.

(Refer to page 23 concerning instances when automatic white balance adjustment is not possible.)

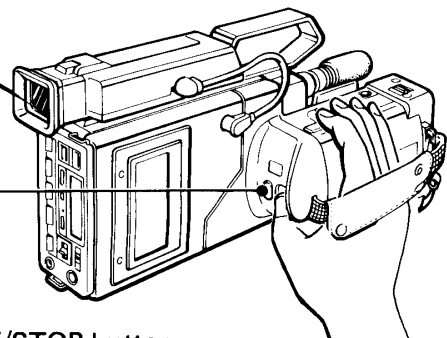
5

Press the START/STOP button to begin recording.

Position the subject in the centre of the viewfinder.



The red lamp will light up when recording begins.



START/STOP button

Press the START/STOP button to stop recording. The red lamp in the viewfinder will go out and the video deck will be set to recording pause.

To resume recording, press the START/STOP button again.

If the recording pause continues for longer than seven minutes, the power will automatically be turned off.


When recording by candlelight or in other darkened surroundings, vertical band-shaped lines will appear in the picture, but this is not a malfunction.

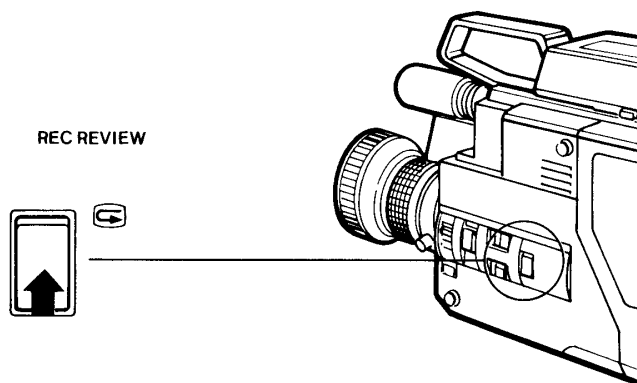
Note

Avoid recording under very bright lighting conditions such as sunlight immediately after recording under dark conditions; doing so may cause the picture to go blank. If this occurs, aim the camera away from the bright light and the picture will return.

RECORDING REVIEW

When the Vision 8 is in the CAMERA mode or the VTR-CAMERA mode, the final part of the recording just made can be played back through the viewfinder during pause.




1. Press the **START/STOP** button to stop the tape, and set to recording pause.
2. Press the  **REC REVIEW** button.



The last few seconds of the scene just recorded will be played back in reverse and that rewind part will be played back, and the video deck will be set to recording pause.

3. To continue recording, press the **START/STOP** button.

IMMEDIATE ON-THE-SPOT PLAYBACK




1. Set to the **VTR mode** or the **VTR-CAMERA mode**.
2. Press the  button to rewind the recorded tape. Then press the  button to stop the tape.
3. The playback will be seen in the viewfinder when the  button is pressed.

To listen to the playback sound, connect the supplied earphone to the **EARPHONE** terminal.

CONTINUED RECORDING

Continued recordings can be made later, even if the power has been turned off, as long as the cassette has not been taken out.

You can make a clean continued recording, even on a tape which has been taken out and then reloaded, in the following way.

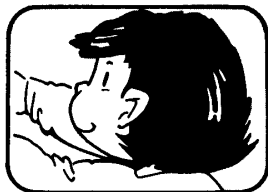
1. Set to the **VTR-CAMERA mode**.
2. While watching the tape play back in the viewfinder, decide where you want the continued recording to start, and press the  button at that place.
3. After pressing the  switch to the right to set to recording pause, press either the **START/STOP** button or the  button to start recording.

AUTO FOCUSING

Infrared rays bounced off the subject and returned to the infrared receiver perform the auto focusing function.

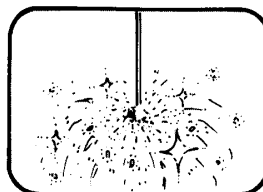
Most subjects can be focused automatically simply by centering them in the viewfinder. The auto focusing feature doesn't work, however, for the following types of subjects, so you should focus manually in these cases.

Subjects that absorb infrared rays



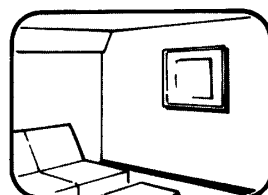
Dark hair, curtains, etc.

Subjects without dimensional substance



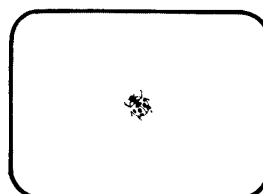
Fireworks, candle flames, smoke, etc.

Subjects that don't reflect the rays back to the camera



Smooth surfaces recorded from an angle. Such surfaces can be focused automatically if viewed directly from the front (not at an angle).

Very small subjects



Insects and other subjects which occupy only about 1/10 or less of the viewfinder area.

Subjects that don't emit enough reflection

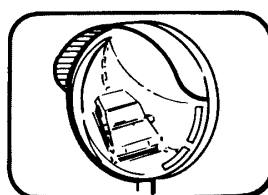


Grassy areas, bushes, plants, etc., if recorded from close up.

Subjects farther than 13 m away

When a conversion lens or a special effect filter is used

Subjects that reflect too much light



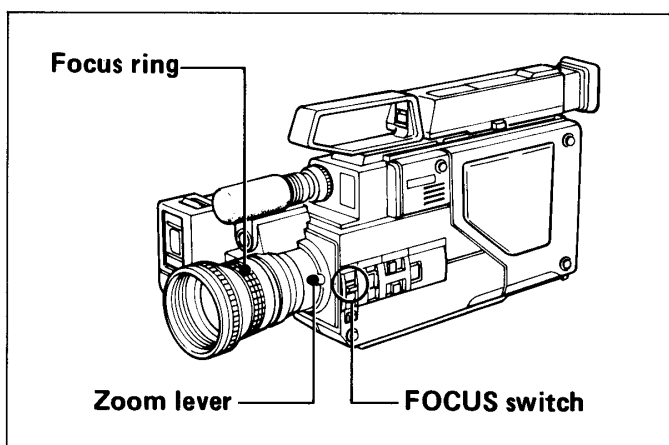
White surfaces, road signs, mirrors, glasses, and other very reflective subjects if recorded from close up or through glass.

Note

* The auto focusing won't work properly if the infrared emitter and/or receiver is dirty or has water drops on it. Wipe clean with a soft cloth.

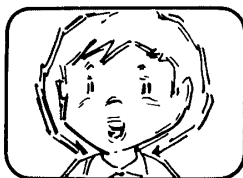
* While the auto focusing is in progress, do not try to forcibly turn or stop the focus ring. Also don't look into the infrared emitter for a long time.

MANUAL FOCUSING

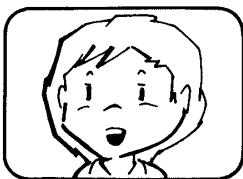


1. Set the FOCUS switch to the "MAN" position.

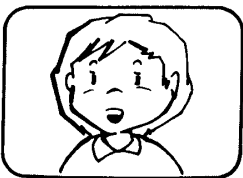
2. Turn the zoom lever all the way to the telephoto side ("72") for the maximum close-up view of the subject.



3. Turn the focus ring until the subject is clearly focused.



4. Turn the zoom lever to the desired setting.



Hints

* The focusing range is very narrow in dark places. When recording indoors, after focusing at the telephoto setting, use the wide angle setting for recording.

* To record at a distance of less than 1.3 m from the subject, use a close-up lens designed for a 35 mm single-lens reflex camera.

* To record a fast-moving subject in bright light outdoors, set the focus ring to 2 m so that the focus is approximate regardless of the distance to the subject, and set the zoom lever to the "12" position.

* Focused range when focus ring is at "2 m" and zoom lever is at "12"

Indoors: 1.1 m to 13 m

Outdoors (sunny): 50 cm to infinity

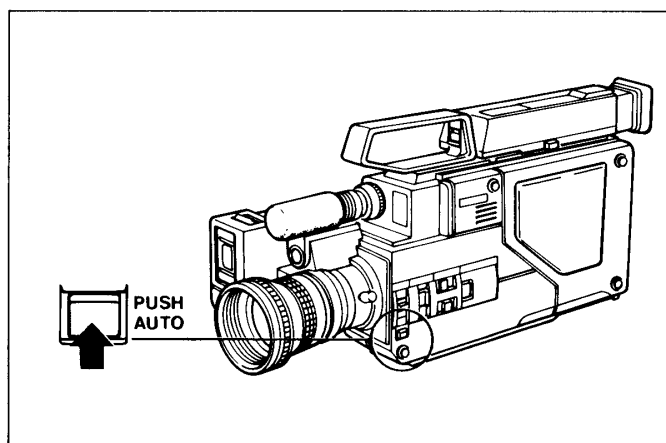
* Focused range when zoom lever is at "12"

Focus ring	Focused range (indoors)
1.3 m	0.84 ~ 2.93 m
1.5 m	0.94 ~ 4.19 m
2 m	1.08 ~ 13.8 m
3 m	1.31 m ~ ∞
5 m	1.59 m ~ ∞

QUICK FOCUSING METHOD

To get a quick focus of a subject during recording using manual focus, simply press the PUSH AUTO button with your finger. Auto focusing will function only while the button is pressed.

You can get a perfectly focused scene from the start by focusing the subject by pressing the PUSH AUTO button, and then pressing the START/STOP button to start the recording.





WHITE BALANCE

WHAT IS WHITE BALANCE?

The colour of a subject varies according to the colour temperature of the light illuminating it. Unlike the human eye, a video camera does not adapt naturally to these changes and, therefore, it is necessary to compensate the colour according to the light. This is called adjusting the white balance.

The adjusted white balance will be maintained for approximately 3 hours after the adjustment is made, even if the power is turned off.

ADJUSTING THE WHITE BALANCE


Either of two methods can be used: automatic adjustment, or selection of either of two presets,  or .

To record a scene where the prevalent light source is a fluorescent light, use the automatic adjustment if possible.

Make the automatic adjustment as described in "Camera recording" (page 19).



Automatic adjustment of the white balance cannot be made under the following conditions:

When the insufficient light lamp (yellow) in the viewfinder lights up because there is not enough light.



In this case, there will be no change of the white balance lamp (orange) in the viewfinder even if the WHITE BALANCE switch is pressed downward from the  position. Readjust after increasing the light to a sufficient level.

For night scenes or fireworks, or when certain special light sources are used for making the adjustment.

Even if the white balance lamp blinks, go ahead and make the recording, because the best possible adjustment has been made for the conditions.

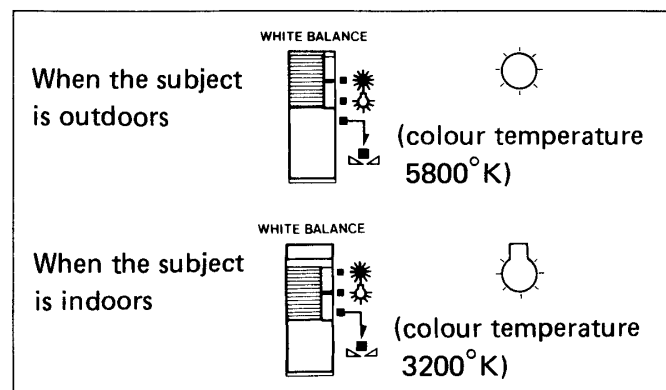
The  setting of the WHITE BALANCE switch is recommended for night scenes and fireworks, and the  setting is recommended for scenes illuminated by candlelight, etc.


(Refer to "What is colour temperature?" on page 49 for additional information.)

The  or  setting is used to make the white balance adjustment. . .

When you're in a hurry.

Under ordinary light conditions, one of these two settings will usually provide a satisfactory white balance adjustment. The white balance lamp in the viewfinder remains lit.



Even if you and the camera are indoors, set to  if the subject is at the window or is outdoors.

If the light source changes

Because conditions tend to remain constant under the same light source, it is not necessary to readjust the white balance from time to time, the white balance should be readjusted, however, if the main source of light illuminating the subject changes, such as, for example, if the recording location changes from outdoors to indoors, or the lighting changes, etc.

Making the white balance adjustment outdoors

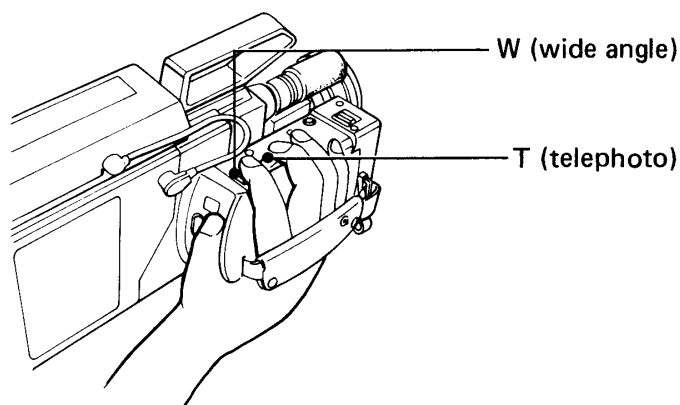
The adjustment can be made more precisely if the white lens cap is faced toward the sun if the subject is in direct sunlight, or by facing it toward the shade if the subject is in the shade.

ZOOMING

You can select either power zooming or manual zooming. No matter which you select, the zoom effect will be improved if you record a fixed scene for a few seconds before and after zooming.

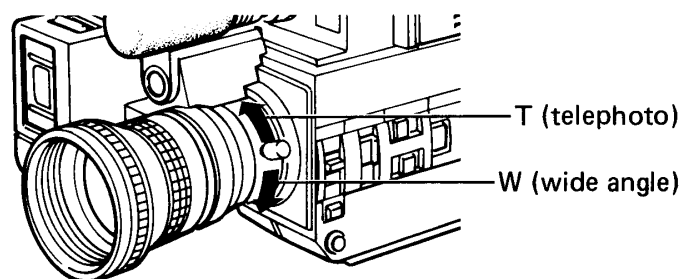
Power zooming

The zoom will be made smoothly and at a constant speed by using the power zoom feature: press the W side to zoom out to wide angle, and the T side to zoom in to telephoto.



Manual zooming

Because the zoom speed can be changed at will, the lever can be moved abruptly to produce unusual special effects.



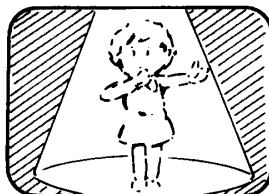
LENS APERTURE

When the exposure correction switch is set to the "■" (centre) position, the aperture is automatically adjusted to the surrounding light conditions. The automatic aperture setting is recommended for most conditions; set the exposure correction switch to the other position, however, for such conditions as described below when there is an excessive difference in the light and dark conditions.

If the background is too bright, causing the subject to be excessively dark, set to BACK LIGHT.



If the subject is too bright in relation to the background, resulting in a blurred or fuzzy scene, set to HIGH LIGHT.



Note

When setting the exposure correction switch, check to be sure that the image can be seen as expected in the viewfinder. If the wrong setting is made, the image might actually become worse.

CONCERNING THE MICROPHONE

The special microphone is a monaural type and has unidirectional characteristics. Because it has a superb sound pick-up capability in the direction in which the camera is facing, recorded sounds are relatively natural.

Two factors to keep in mind when the microphone is used are that the noises of the zoom lever, etc., will be picked up by the microphone when the recording is being made in quiet surroundings, and that the subject and sounds around it will not be picked up if the subject is far from the camera.

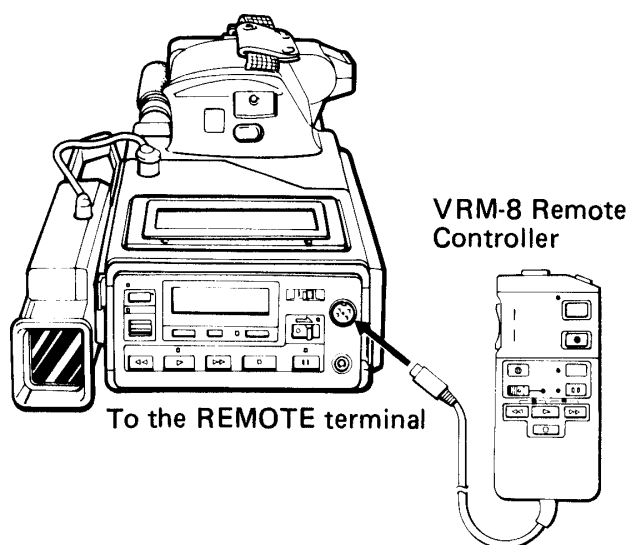
REMOTE CONTROL OPERATION

Control is possible from a distance by using the VRM-8 Remote Controller (sold separately).

For additional details, refer to the VRM-8's owner's manual.

Note

When the Vision 8 is switched to the CAMERA mode by the VRM-8 remote controller, the VRM-8CAMERA POWER lamp and the VTR POWER lamp both illuminate, but this is normal, not a malfunction.



VIDEO DECK OPERATION

TAPE PLAYBACK

The following explanation is for playback only. This is convenient when you want to look at the playback picture quickly and simply.

A TV can also be viewed if the antenna connection is made as shown on page 27.

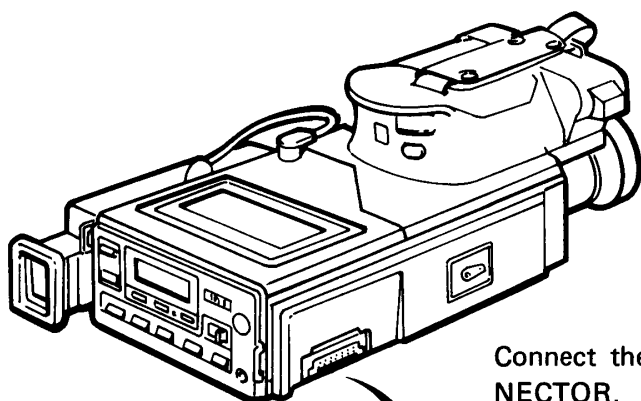
To record from a TV, note the connections shown on page 30.

CONNECTIONS AND PREPARATION

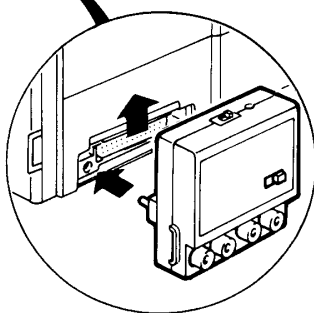
Using the VAP-8P AC Pack and the VAF-8P RF Multiconnector, first connect the VAF-8P RF Multiconnector to the MULTICONNECTOR on the Vision 8, and then insert the VAP-8P into the battery compartment.

For information about accessories, refer to the section "Accessory list" on page 50.

— CONNECTION OF THE RF MULTICONNECTOR —

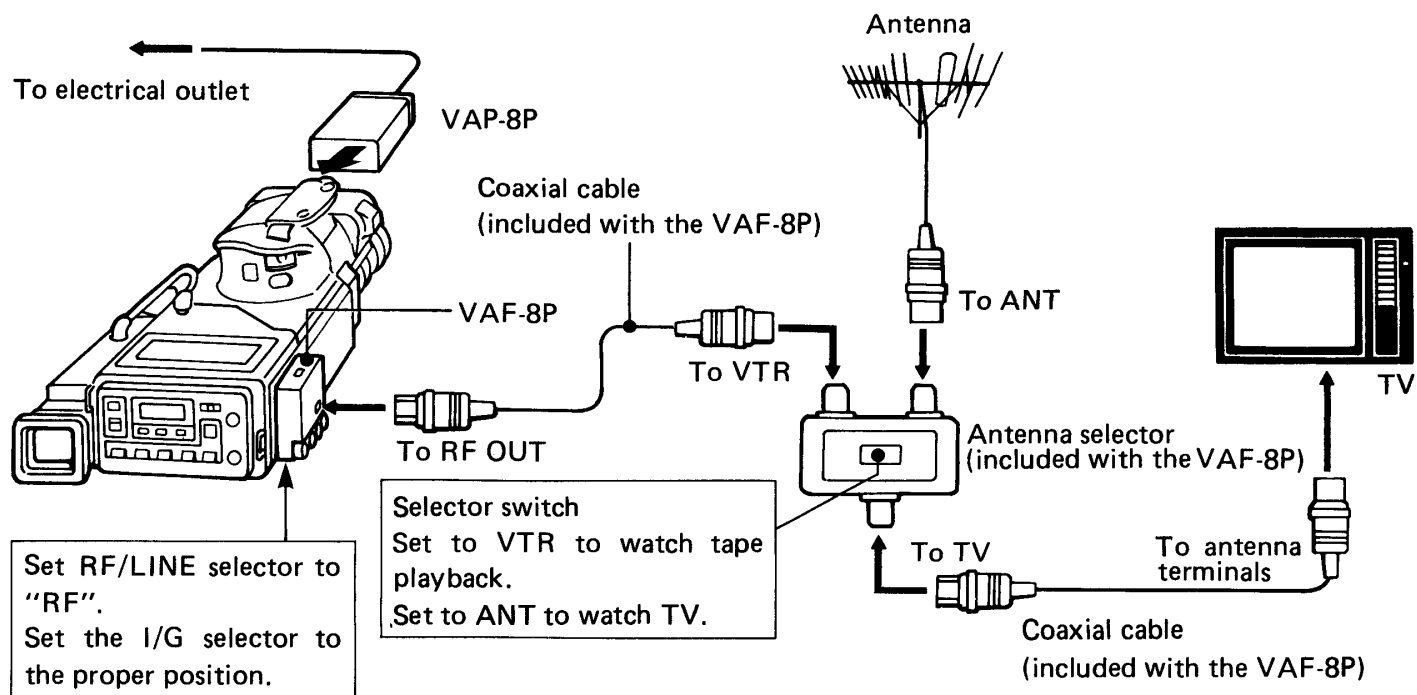


Connect the RF Multiconnector to the MULTICONNECTOR.



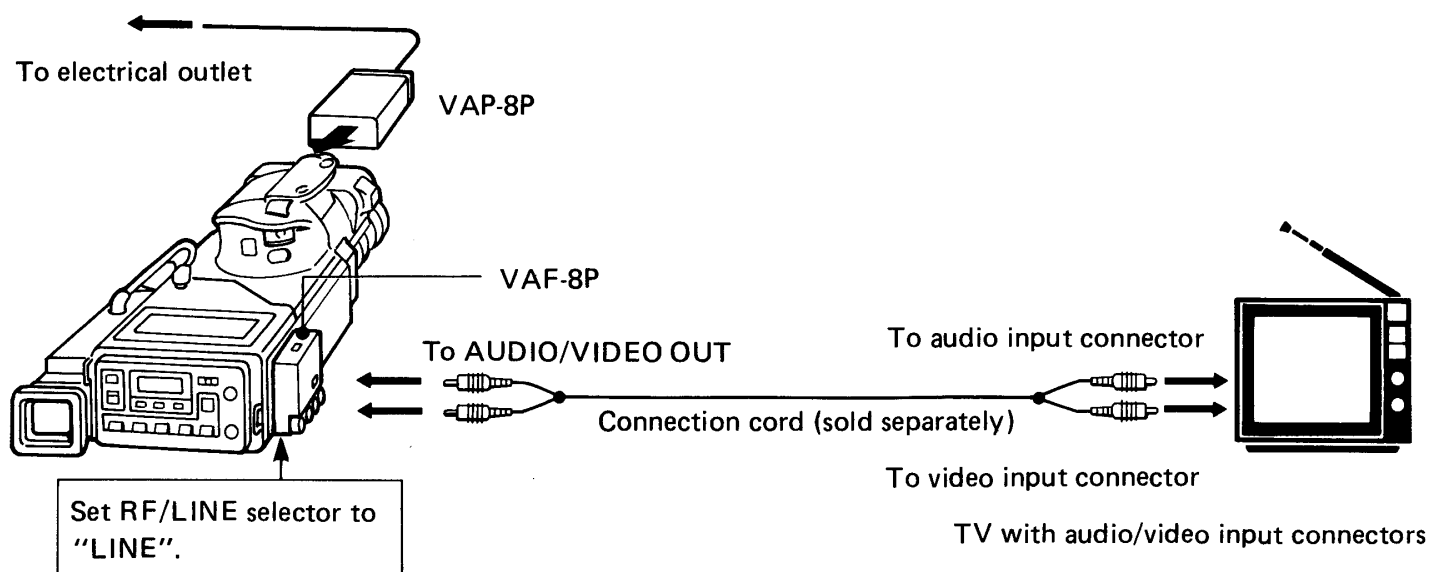
When the RF Multiconnector is not being used, close the MULTICONNECTOR cover.

Playback on a TV not equipped with video/audio input connectors



Playback on a TV equipped with audio/video input connectors

The antenna can remain connected to the TV.

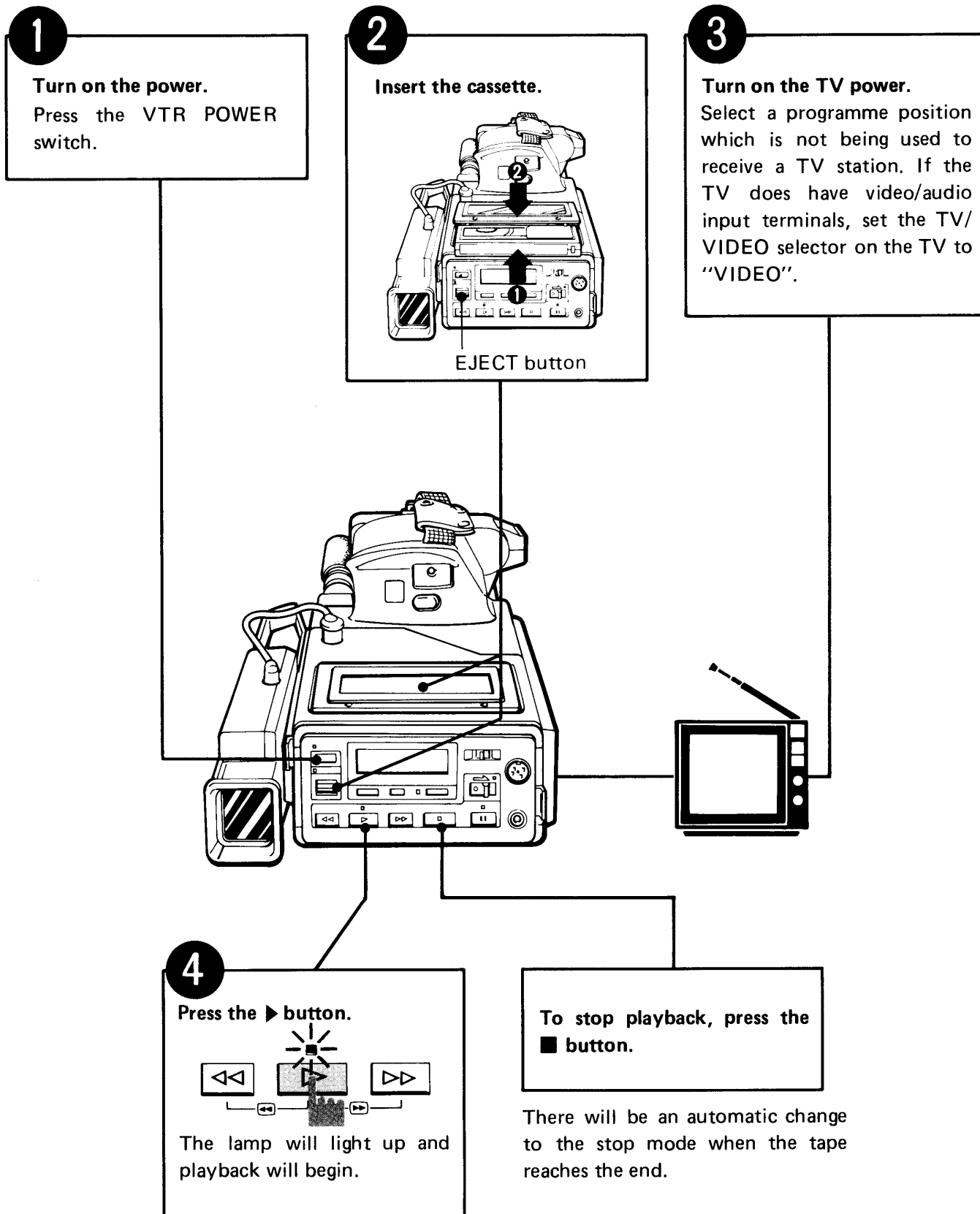


By making these connections the TV can be set to any channel. Use the TV's TV/VIDEO selector.

Set to "TV" to watch TV. Set to "VIDEO" to watch tape playback.

PLAYBACK

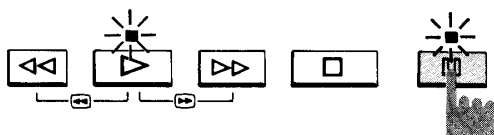
When tape playback is viewed on a TV screen, the viewfinder cord need not be connected.



TAPE OPERATION

Still picture

To view a still picture, press the **■** button during playback.



Note

When a tape is recorded in the SP mode, a still picture may be noisy with many streaks and become black-and-white.

To resume ordinary playback, press the **■** button again. There will be an automatic change to the stop mode if the pause mode continues for seven minutes or more.

Picture search

Fast-forward and rewind while watching the picture.

Forward search	Reverse search
Press the ▶▶ button during playback.	Press the ◀◀ button during playback.
The picture can be seen at high speed only while the ▶▶ button or ◀◀ button is pressed and held. No sound can be heard during picture search.	

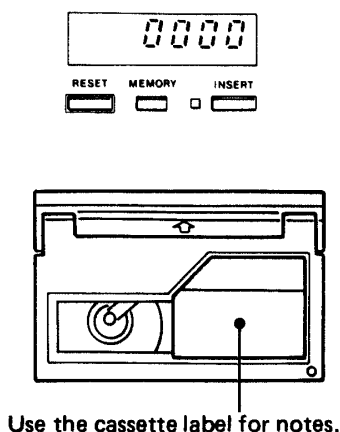
Note

When a tape is recorded in the SP mode, a picture search may be played back sometimes in black-and-white and streaks will be wider than those of the LP recorded tape.

USING THE COUNTER

INDEXING THE TAPE CONTENTS

Turn on the power and press the **RESET** button at the beginning of the tape to set the counter to "0000". Then, during recording or playback, if you make note of the counter number and the recorded contents at the beginning of a programme, you'll find it easy to later locate any desired programme on the tape.



Note

*When "MEMORY" is displayed, the counter won't change to "0000" if the **RESET** button is pressed.

*The counter indication may deviate slightly from the tape position.

RETURNING QUICKLY TO A SPECIFIC LOCATION

If, during recording or playback, you see a scene that you want to return to later, press the **RESET** button at that scene. The counter will be set to "0000".

1	After the recording or playback is finished, press the ■ button to stop the tape.
2	Press the MEMORY button. Check to be sure the indication appears.
3	Press the ◀◀ or ▶▶ button. Press the ◀◀ button to rewind. Press the ▶▶ button to fast-forward.

RECORDING TELEVISION BROADCASTS

TV programmes can be recorded by connecting the Vision 8 to a television.

By making the connections shown below, you can watch TV broadcasts and tape playback in addition to recording TV broadcasts.

When you record the TV programmes by using the VTT-8P video tuner timer (sold separately), refer to the VTT-8P's owner's manual.

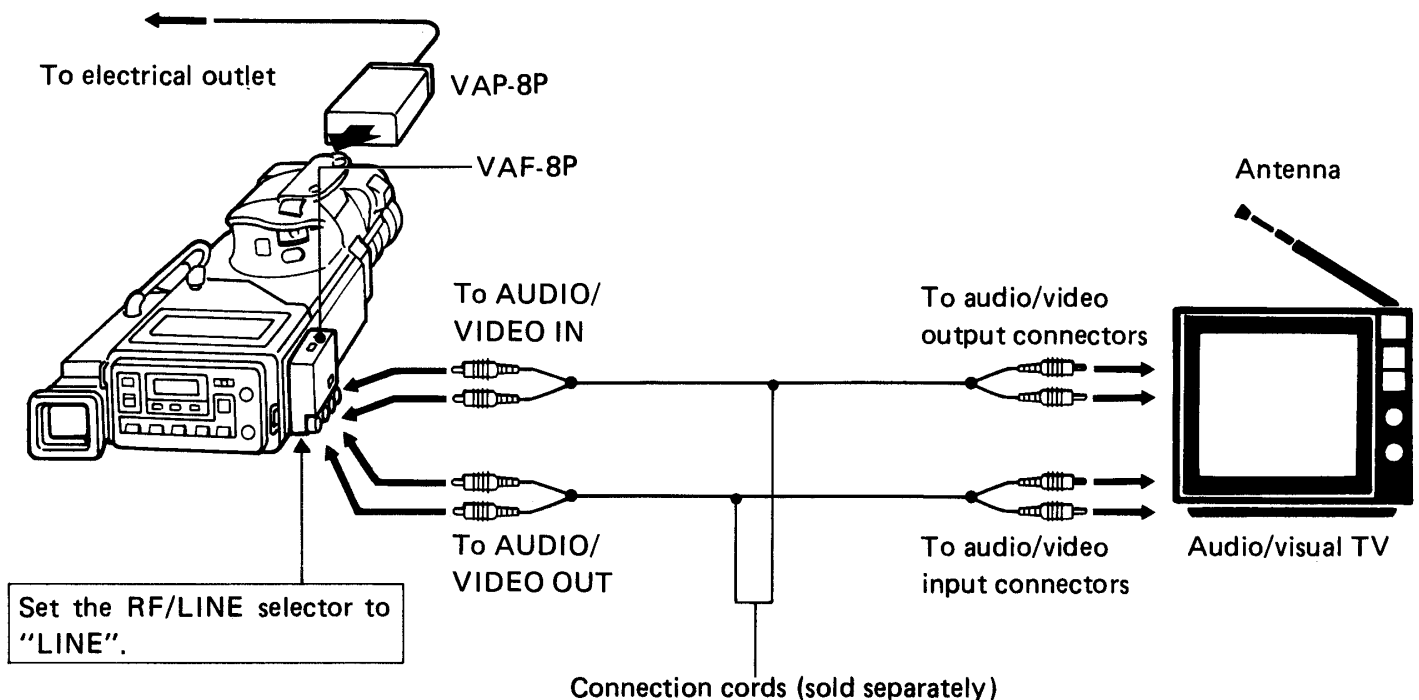
PREPARATION

Using the VAP-8P AC Pack and VAF-8P RF Multiconnector

First, connect the VAF-8P RF Multiconnector to the Vision 8's MULTICONNECTOR, and then insert the VAP-8P AC Pack in the battery compartment. Refer to "TAPE PLAYBACK" on page 26. For information about accessories, refer to "ACCESSORY LIST" on page 50.


Using a television equipped with audio/video input/output connectors

CONNECTIONS




OPERATION

Recording

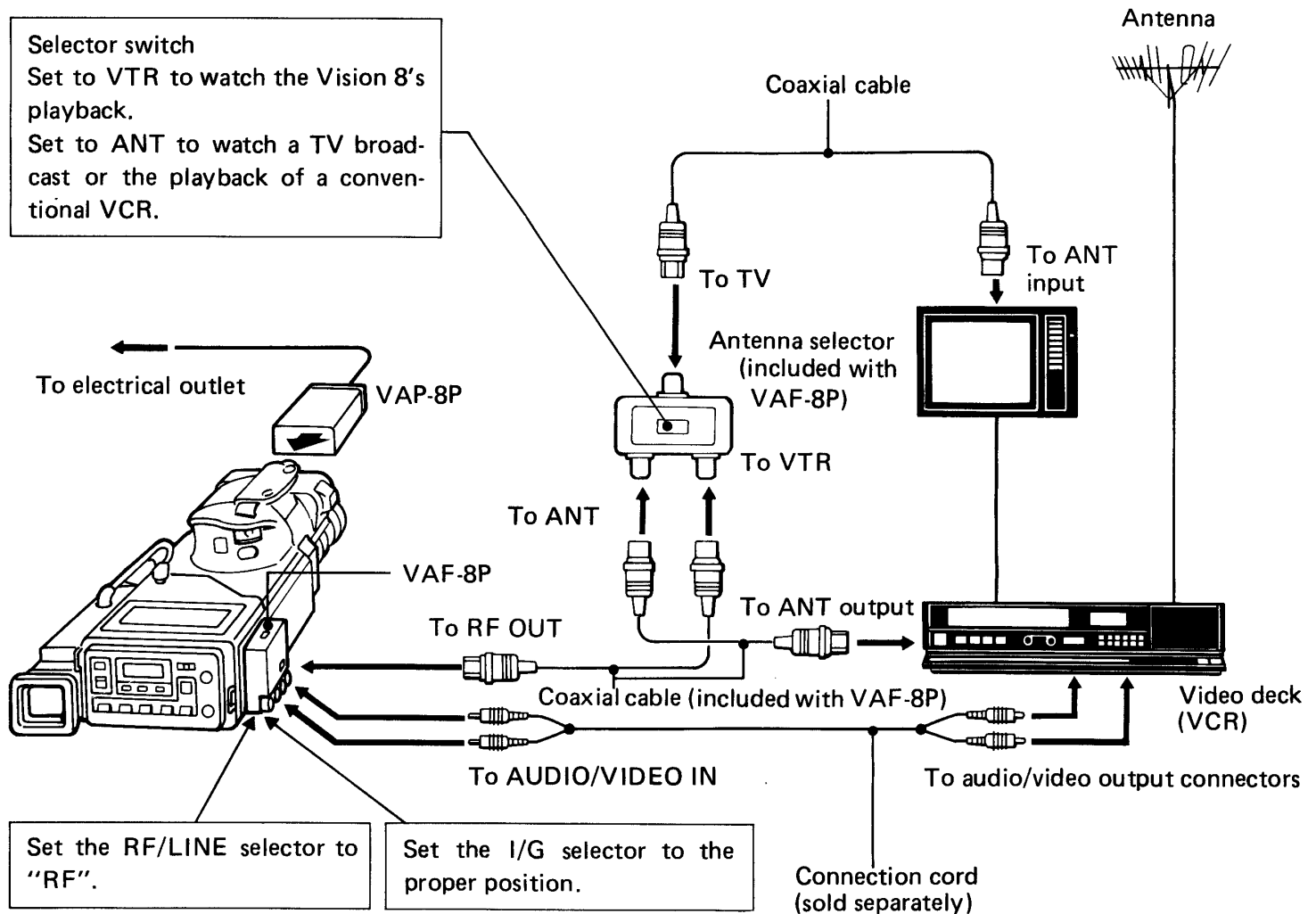
1. Turn on the power of all equipment.
2. Insert a cassette into this unit.
3. Set the TV's input selector to "TV" and select the channel showing the programme to be recorded.
4. Press the  switch on this unit to begin recording.

Playback

1. Turn on the power of all equipment.
2. Set the TV's input selector to "VIDEO".
3. Insert the cassette and press the  button to begin playback.


Using a VCR not equipped with an input selector

CONNECTIONS




OPERATION

Recording

1. Turn on the power of all equipment.
2. Set the antenna selector's selector switch to "VTR".
3. Insert a cassette into this unit.
4. Set the video deck to the channel to be recorded, and set the TV to the exclusive video channel.
5. Press this unit's  switch to begin the recording.

Playback

1. Turn on the power of this unit and the TV.
Set the antenna selector's selector switch to "VTR".

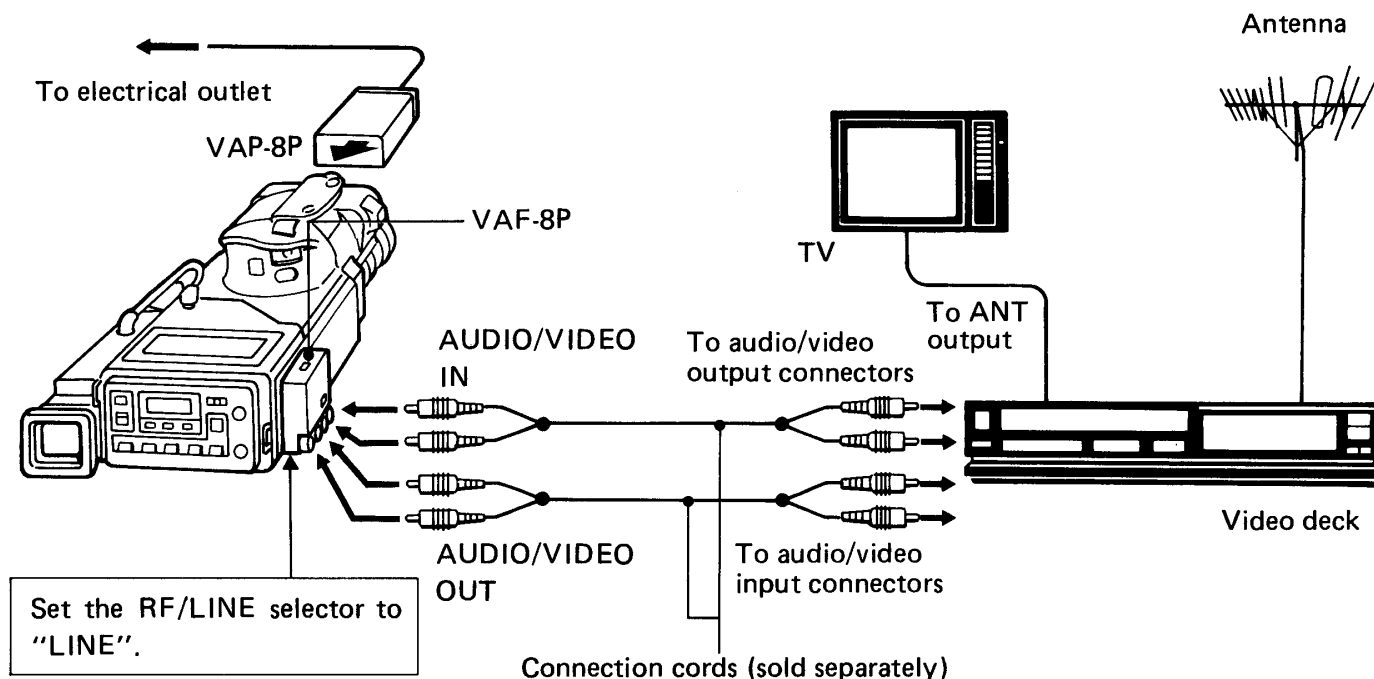
2. Set the TV to the exclusive video channel.
3. Insert the cassette and press the  button to begin playback.

To watch one programme while recording another

Set the antenna selector's selector switch to "ANT". Set the TV to the channel you want to watch. The channel selected on the TV will be shown on the TV screen and the channel selected on the video deck will be recorded on the tape in the Vision 8.


Using a VCR equipped with an input selector

CONNECTIONS




OPERATION

Recording

1. Turn on the power of all equipment.
2. Insert a cassette into the unit.
3. Set the video deck's input selector to "TUNER".
4. Set the video deck to the channel to be recorded, and set the TV to the video channel.
5. Press the  switch to begin the recording.

Playback

1. Turn on the power of all equipment.
2. Set the video deck's input selector to "LINE" (external input).
3. Set the TV to the video channel.
4. Insert the cassette and press the  button to begin playback.

To watch one programme while recording another

Set the TV to the channel to be watched.

The channel selected on the TV will be shown on the TV screen, and the channel selected on the video deck will be recorded on the tape in the Vision 8.

If the connected video deck is a stereo model, use the special connection cord (sold separately) or some other connection cord which is designed for stereo connection at one end.
The sound on the tape recorded by the Vision 8 will be monaural.

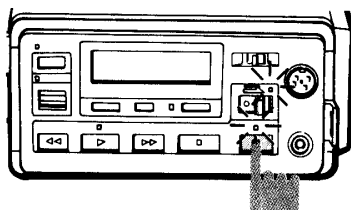
In addition to the connections and operations described above, the connection/operations described on page 31 are also possible if the video deck's input selector is set to "TUNER".

The TV can be viewed in the usual way, even if the Vision 8 is connected, by simply turning on the TV's power.

Note

- * While in the VTR-CAMERA mode, camera recording has priority, so TV programmes cannot be recorded.
- * The **TAPE** indicator will begin blinking when the tape nears its end during recording.
There will be an automatic change to the stop mode when the tape reaches its end.
- * When tape playback is viewed on a TV screen, the viewfinder cord need not be connected.

Press the **■** button if there is a part you don't want to record.



The programme can still be seen on the TV screen, but the tape will stop and no recording will be made. To resume recording, press the **■** button again.

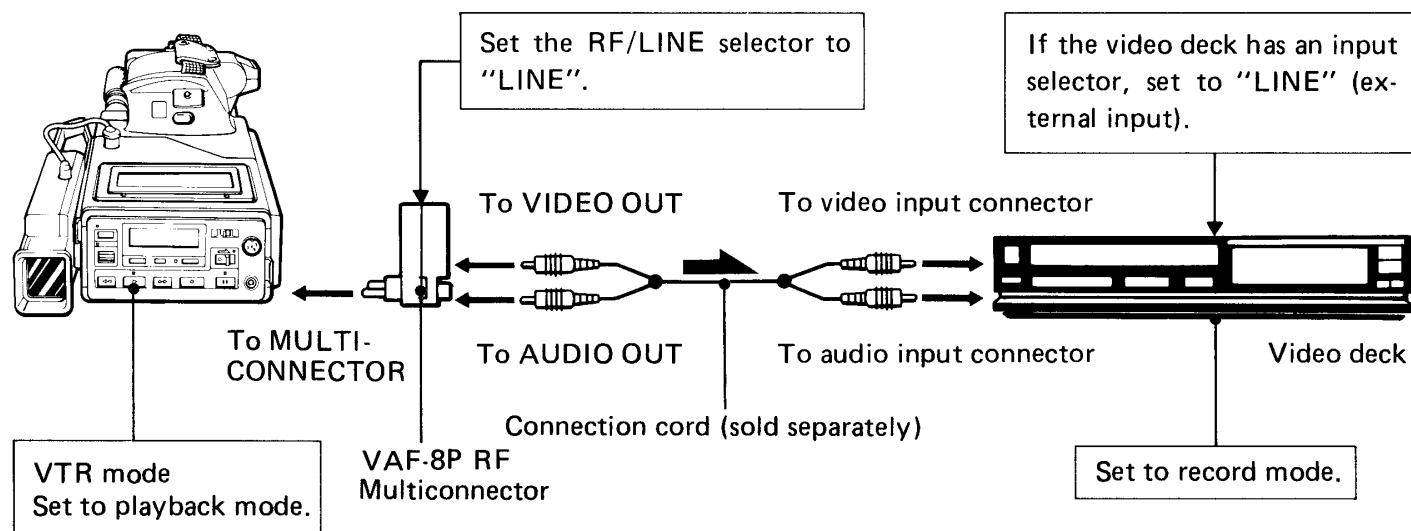
There will be an automatic change to the stop mode if the pause mode continues for 7 minutes or more.

To stop recording

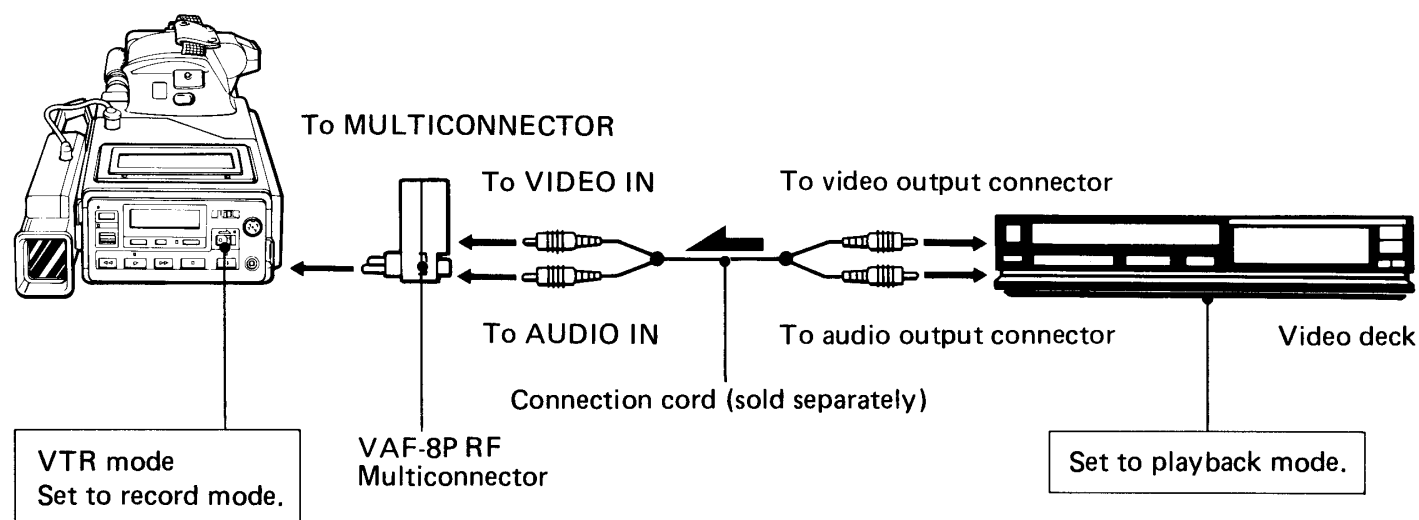
Press the **■** button.

TAPE EDITING

Recording from the Vision 8 to a video deck



Recording from a video deck to the Vision 8



If the connected video deck is a stereo model, use the special connection cord (sold separately) or some other connection cord which is designed for stereo connection at one end.
The sound on the tape recorded by the Vision 8 will be monaural.

Concerning the REC MODE/EDIT switch

Usually leave it set to the left side.

When, however, a tape is dubbed from the Vision 8 to another video deck, picture deterioration can be somewhat reduced by setting it to the "EDIT" side.

Note that successive dubbing will result in picture and sound quality which is worse than that of the original tape, so successive dubbing is not recommended.

INSERT EDITING

Insert editing is the insertion of new video and audio portions in an already recorded tape, a feature which is convenient, for instance, for adding titles or replacing certain scenes with different ones.

PREPARATION

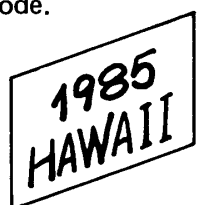
Connect any necessary equipment for the material to be insert-recorded.

For details about connections and operation, refer to the pages indicated.

Insertion of a camera recording (p. 18)

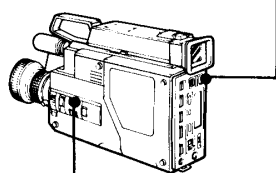
Use the VTR-CAMERA mode.

This insert function doesn't work in the CAMERA mode.



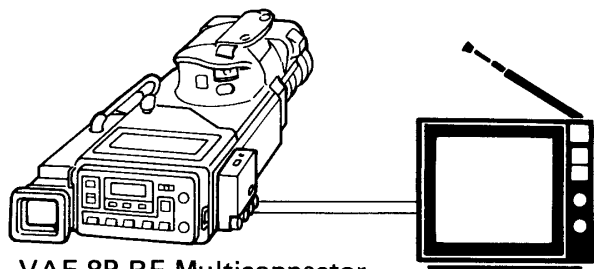
Title card, etc.

① Press the VTR POWER switch.



② Press the CAMERA POWER switch.

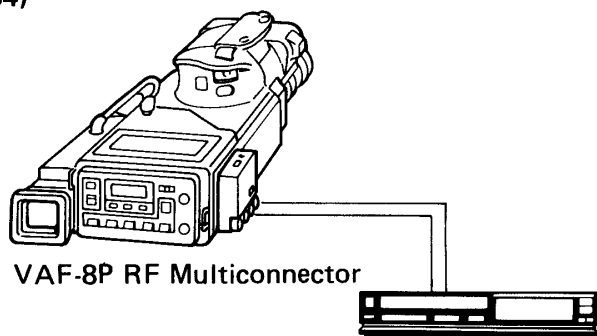
Insertion of a TV programme (p. 30)



VAF-8P RF Multiconnector

Video deck, TV, etc.

Insertion of playback from another video deck (p. 34)

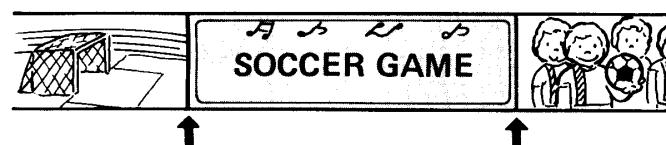


VAF-8P RF Multiconnector

Video deck

INSERTION

Tape movement → Newly recorded part (inserted part)



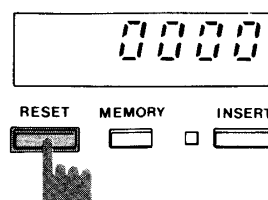
Cut-in (start) point

Cut-out (end) point

The tape playback picture can be checked in the viewfinder.

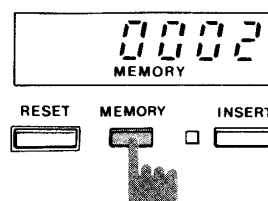
1. Determine the cut-out point.

By picture search during playback, find the end (cut-out) point, and press the RESET button.



The counter will return to "0000".

2. Press the MEMORY button.

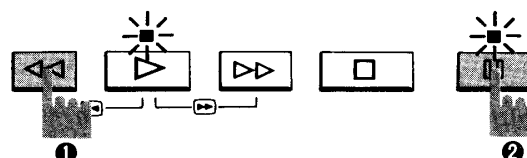


3. Determine the cut-in point.

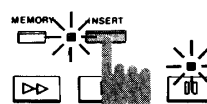
By reverse picture search, find the start (cut-in) point, and rewind slightly from that point.

4. Set to playback pause.

Release the ◀◀ button and, at the cut-in point, press the || button.





5. Press the INSERT button.

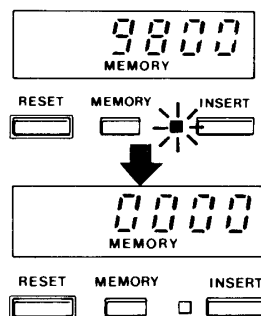


This sets to insert pause. The ▶ lamp will go out and the INSERT lamp and the || lamp will light up.

6. Start the TV programme or video tape to be inserted, and start the insert recording.


For camera recordings	Press the START/STOP button or the  button.
For others	Press the  button.

The pause will be released and the insertion will begin.



The counter numbers will become higher; the tape will stop when "0000" is reached.

The INSERT lamp will go out.

It is also possible to begin from step 3, without deciding on the cut-out point. In this case, press the  button at the point where you want to stop the insertion.

There will be an automatic change to the stop mode if the pause mode continues for 7 minutes or more.

Note



There may be a slight disturbance of the picture at the cut-out point when the insert-recorded tape is played back.

OTHER

ALL ABOUT DEW

DEW INSIDE THE VISION 8

If the unit is brought from a cold place into a warm room, or if it is left in a room where there is much steam or high humidity, drops of moisture may form inside the Vision 8. This is called "dew" or "condensation of moisture". If the unit is operated in this condition, not only might the tape stick to inside parts, but the tape and/or parts might be damaged. This unit is designed to prevent such damage from happening, but, as a further precaution, tape should not be left in the Vision 8 if conditions such as those described above are present.



If there is condensation of moisture in the unit, the  mark will blink when the power is turned on, and none of the operation buttons except the EJECT button will function. If there is a cassette in the unit, the  mark and the EJECT lamp will blink and the tape will automatically be withdrawn into the cassette shell.

If the  mark blinks




Press the EJECT button and take out the cassette.

If the battery pack is being used

Turn off the power and leave the unit with the cassette holder open. The time until the  mark stops blinking differs depending on surrounding conditions. If the  mark has not stopped blinking after several hours, connect the AC Pack, etc.

If the AC Pack, etc., are used as the power supply

If the power is left on, the heater within the unit will function to remove the condensation of moisture.

The unit can be used after the  mark stops blinking.

DEW ON THE TAPE

Condensation of moisture can also, in the same way, form on the tape if it is brought from a cold place to a warm room. If tape that has moisture on it is loaded in the unit, the EJECT lamp will blink when the ► button or some other button is pressed, and no button except the EJECT button will function.

The  mark will not blink however.

To begin use again

Load the cassette and press the ► button or some other button.

The tape can be used if the EJECT lamp doesn't blink.

If the EJECT lamp blinks



Press the EJECT button, take out the cassette, and leave it as is for a while.

CONCERNING THE VIDEO HEADS

CLEANING THE VIDEO HEADS

When the video heads have been used for a long time, the playback picture may become fuzzy, and eventually there may be no picture at all.

This is caused by dirty video heads, and is an indication that they should be cleaned.

To clean the heads, either use a commercially available cleaning tape cassette, or request your dealer to have them cleaned.

*Note that the video heads can be damaged if a cleaning tape cassette is used incorrectly. Read and follow the pertinent instructions carefully when cleaning the heads.

Video heads wear in the same way as a phono stylus.

If the picture is not clear even though the heads have been cleaned, it is possible that the heads themselves are worn. If so, they must be replaced.

For detailed information and assistance, please consult your dealer.

1000 hours of use is the guideline for an inspection.

This unit requires an extremely high degree of precision to record images from a colour television and the video camera onto magnetic tape and then to correctly reproduce those images.

In particular, the video heads and mechanical parts which transport the tape are especially subject to becoming dirty and worn after long use.

So, in order that you can continue to enjoy the beautiful pictures which this unit can reproduce, it is suggested that the unit be inspected (including cleaning, lubrication and possible replacement of some parts) after approximately every 1000 hours of use.

For detailed information and assistance, please consult your dealer.

FOR CORRECT OPERATION

Don't hold by the viewfinder.

When carrying the Vision 8, don't carry it by grasping the viewfinder. Excessive force might damage it.

Avoid impacts, bumps and dropping.

Be especially careful not to drop the Vision 8 with the lens facing down, or to bump the lens against anything, because this could also damage internal components or cause a malfunction.

Handle the microphone carefully.

Rough handling or excessive force could result in a malfunction.

Don't wrap in cloth, etc., when using.

If the Vision 8 is used while wrapped in cloth or other material, it could cause an internal temperature rise, leading to a malfunction.

Don't face the viewfinder toward the sun.

A malfunction might be caused if the eyepiece is held facing toward the sun.

Don't place the unit. . .

*Where there are violent vibrations.

*Where there are strong electrical waves or where there is radiation.

*Near an AM radio or tuner.
(Noise might be caused.)

Condensation of moisture may form on the lens and other parts if the unit is brought from a cold place to a warm room.

If this happens, turn off the power and wait about an hour before trying to use the unit.

Using the unit near the sea. . .

Be especially careful not to let salt water splash on the Vision 8. If salt water gets inside, it can cause a malfunction, possibly one which cannot be repaired.

If the unit will not be used for a long time. . .

*Take out the cassette. If the cassette is left inside, the tape might stick to the drum and damage internal parts.

*From time to time turn on the power and play back a tape for about 3 minutes. Also move other parts, such as the zoom lens, focus ring, etc.

USING YOUR VISION 8 ABROAD

Various broadcasting systems and power supplies are used in different countries, so before you leave check the following points.

Colour system

You can make recordings anywhere you go with the Vision 8 if you have with you a charged battery pack and tape cassettes. You can also view the recorded results in the viewfinder, but, to play back on a TV, the same colour reception system (PAL system) is necessary.

Main countries using the PAL system:

England, Italy, Austria, Australia, West Germany, Holland, Kuwait, Singapore, Switzerland, Sweden, Spain, Thailand, People's Republic of China, Denmark, New Zealand, Norway, Belgium, Portugal, Hong Kong

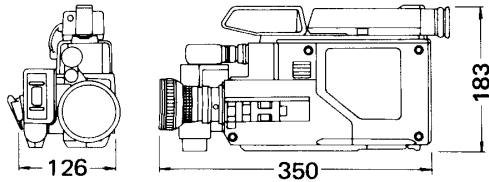
Main countries using the NTSC system:

Canada, Japan, Korea, Mexico, the Philippines, Taiwan, U.S.A.

Main countries using the SECAM system:

Iran, Iraq, USSR, Hungary, France, Bulgaria, Poland, Monaco, Luxembourg, etc.

SPECIFICATIONS

SYSTEMS		POWER SUPPLY SECTION, OTHER		
Video recording system	Rotating head, helical scan Rotating 2-head helical scanning FM system	Power supply voltage	Multiconnector input 8.5V Battery compartment input 6.0/8.5V	
Audio recording system	Rotating head, FM system	Power consumption	During camera recording 7.7W (including viewfinder)	
Video signals	PAL colour, CCIR standard system	Operation positions	Horizontal, vertical	
Cassette compatibility	8 mm video tape cassettes	Operation temperature range	0°C ~ 40°C (32°F ~ 104°F)	
Tape speed	SP : Approx. 20.051 mm/sec. LP : Approx. 10.058 mm/sec.	Storage temperature range	-20°C ~ 60°C (-4°F ~ 140°F)	
Recording/ playback time	SP : 90 minute (P5-90) LP : 180 minute (P5-90)	<div>External dimensions126(W) x 183(H) x 350(D)(mm)</div> <div></div>	<div>Specifications and design are subject to change without notice.</div>	
Fast-forward and rewind time	Approx. 3 minutes (P5-90)			
Pickup element	CCD solid-state pickup element			
Viewfinder	Electronic viewfinder (1-inch type, black & white)			
Lens	6X power zoom lens f = 12 – 72 mm F1.4, with infrared-ray auto- focusing function Filter diameter 52 mm			
Colour temperature switching	Manual: 2 steps (3200°K/5800°K) Automatic: From tungsten bulb lighting to semi-darkness			
Minimum subject illumination	22 lux (at F1.4)			
Subject illumination range	22 – 100,000 lux			
Recommended subject illumination	300 lux or more			
Aperture correction	Approx. ±1.5 the set aperture			
INPUT/OUTPUT TERMINALS				
Multiconnector (24-pin)	Video input	1 Vp-p, 75 Ω unbalanced, negative sync.	EARPHONE terminal	Mini-jack for 8 Ω earphone
	Video output	1 Vp-p, 75 Ω unbalanced, negative sync.	REMOTE terminal	5-pin connector
	Audio input	-6dB, input imped- ance 47 kΩ or higher	MIC input terminal	Mini-jack, -60 dB
	Audio output	-6dB, output imped- ance 1 kΩ or lower		For low-impedance microphone

IS THERE A MALFUNCTION?

Check these points once more before requesting service.

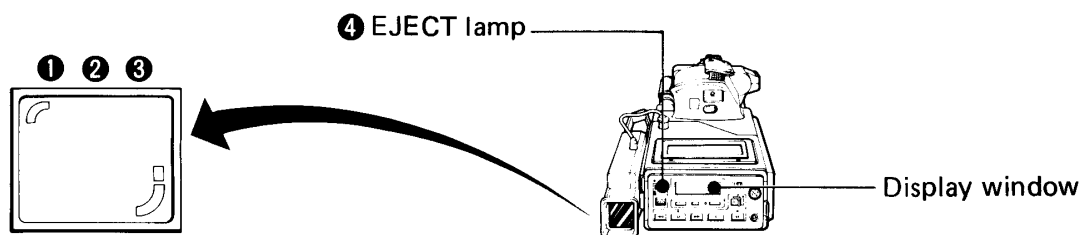
CHECKLIST

Symptom	Possible cause	Remedy
No power.	A video tuner timer is connected.	Turn on the video tuner timer's power.
Tape won't move when START/STOP button is pressed.	* Tape is stuck to drum.	* Press the EJECT button, take out the cassette, and load it again.
	* Tape is at the end.	* Rewind the tape or use another cassette.
	* The unit is in the VTR mode.	* Turn on the power again; set to CAMERA mode or VTR-CAMERA mode.
Can't record when the ○ switch is pushed to the right.	* Knob is set to erasure-prevention position.	* Use another cassette, or set the cassette's knob so that a recording can be made.
	* Tape is at the end.	* Rewind the tape or use another cassette.
Power is suddenly turned off during use.	* Pause mode continued for more than approx. 7 minutes during CAMERA mode.	* Turn on the power again.
	* Battery pack is worn out.	* Replace with a charged battery pack.
Vertical bands sometimes appear when a recording is made by candlelight or video light with dark background.	* This is not a malfunction; it happens sometimes when the subject and background are in strong contrast.	_____
Battery pack wears out very quickly.	* Unit is being used where the temperature is very low.	_____
	* Insufficient charging.	* Charge again.
Cassette can't be removed.	* Battery pack is worn out.	* Replace with a charged battery.
	* Power is turned off.	* Check connections of video tuner timer, etc. Turn on the power.
Playback picture is unclear.	* Incorrect eyesight compensation.	* Re-adjust the eyesight compensation (p. 18).
	* The REC MODE/EDIT switch is set to the "EDIT" position.	* Set it to the left side (p. 34).
Picture is not clear.	* Video heads are dirty.	* Clean by using a cleaning tape cassette (p. 37).
No playback when ► button is pressed.	* Tape is at the end.	* Rewind the tape or use another cassette.
Auto focusing system doesn't function.	* FOCUS switch is set to "MAN".	* Set FOCUS switch to "AUTO".
	* Conditions unsuitable for auto focusing (p. 21).	* Set FOCUS switch to "MAN" and adjust the focus manually.
	* Infrared emitter and/or receiver are clouded over or dirty.	* Wait until they become clear; clean the surface if it's dirty.

WARNING INDICATORS

Lamps and indicators blink to let you know there is a problem.

Inside the viewfinder



◎ Blinks quickly ○ Blinks slowly ● Lights up

* The lamps in the viewfinder blink or light up when the camera power is turned on.

①	②	③	④	Display window			Cause	Remedy
						TAPE		
	○				○		Battery pack is worn out.	Replace with a charged battery.
				○			Moisture inside the unit. (No cassette in unit)	Eliminate condensation of moisture. Refer to p. 36.
			◎	○			Moisture inside the unit. (Cassette in unit)	
	○					○	Tape is near the end (during recording).	Prepare another cassette.
						○	In above condition, recording pause is set.	
	◎		◎			◎	Tape has reached the end (during recording).	
	◎		◎			◎	CAMERA mode; a finished tape has been loaded.	Rewind the tape, or use another cassette.
						○	CAMERA mode; no cassette loaded.	Load a cassette.
	◎		◎			○	CAMERA mode; knob is set to erasure-prevention position.	Set to opposite position.
●							Insufficient light.	Use more light.
		●					WHITE BALANCE switch is set to or .	Set to position corresponding to light source, or use auto adjustment.
		◎					Incorrect white balance.	Correct it.
			◎				Possibly loose tape, abnormal tape movement, condensation moisture on tape, etc.	* Eject cassette and load again. * Replace with another cassette.

CAMERA RECORDING TIPS

With video tape, you can use the same tape over and over again, and you can view the results immediately on TV, so that you can do it over again if you're not satisfied with the results. This is one of the special advantages of video tape, and so here we want to show you some of the hints that can make your Vision 8 recording even more fun, and perhaps help you get better results too.

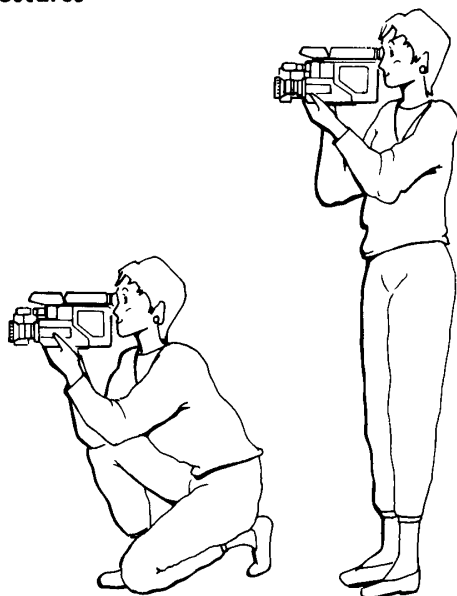
BASIC CAMERA WORK

A STEADY PICTURE (your posture determines the picture)

Correct posture is vital to hand-held recording.

Practice using the basic postures shown below and find the one which is best for you.

Basic postures

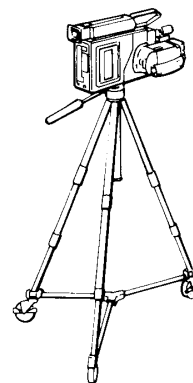


- * For hand-held recordings, rest the Vision 8 on your shoulder, assume a steady stance, and hold the unit firmly.
- * Let your shoulder relax.
- * Keep your right elbow in close to your body so that the Vision 8 doesn't move.
- * When recording while moving, keep both eyes open.
- * For improved stability, the viewfinder should be where it meets the eye.
- * Spread your legs out a little and stand steady without rocking. Another idea is to support your body against a building or tree.
- * A low posture, with one knee on the ground, adds to overall stability.

Using a tripod or monopod is recommended.

You can also use a tripod or monopod designed for use with still cameras.

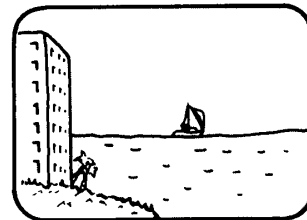
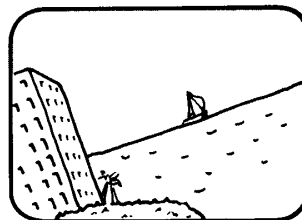
In place of a tripod, you can also use a table indoors, or a wall or other flat place outdoors.



A dolly is convenient for moving recordings.

Keep horizontal lines horizontal.

Even if there is no vibration, if objects which should be horizontal are tilted, the picture will be uncomfortable to watch.



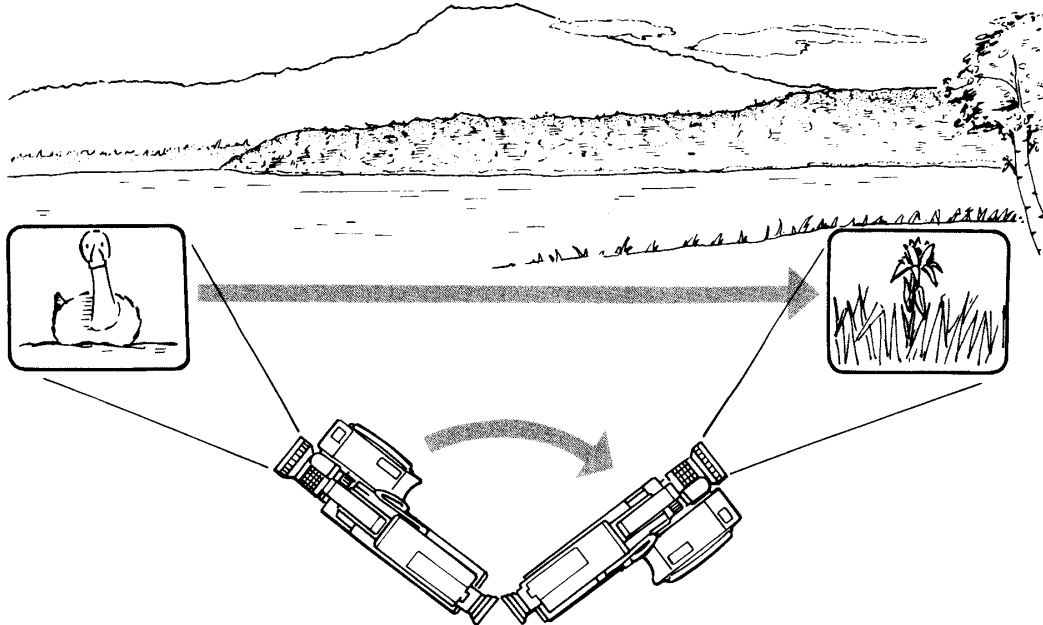
Aligning horizontal and vertical lines with the frame will help keep the picture straight.

THREE WAYS TO RECORD A SUBJECT

Taking advantage of the merits of auto focus will allow you to devote all of your attention to following the subject. Select the one which best suits your purpose. For an effective recording, be careful not to overuse these methods to the point that they become tiresome to watch.

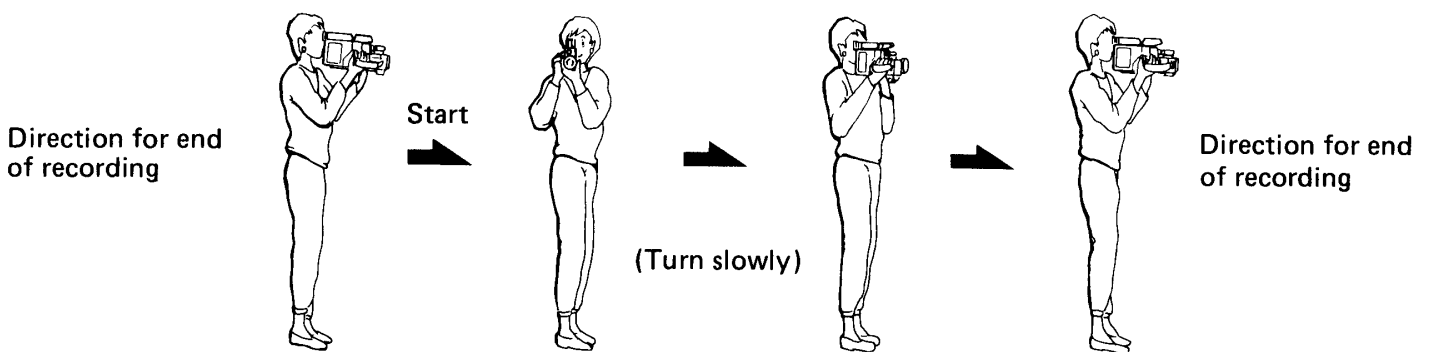
Panning (horizontal movement)

To express expansiveness or record a panoramic view.



A good panning posture

1. First, face your body in the direction at which you want to end the recording.
2. Keeping this stance and, without moving your legs, turn your body at the hips and aim the Vision 8.
3. Begin recording. Turn your body slowly at the hips back to your original position, turning the Vision 8 with you.



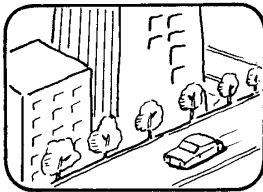
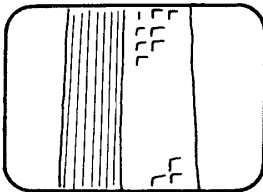
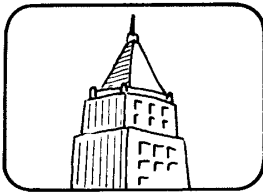
The turning speed for the Vision 8 should be about the speed at which you can explain what you are recording. Never do "wall painting" panning (panning back and forth over the same place).

Holding your breath while panning or zooming will minimize vibration and help you to concentrate on the viewfinder.

Tilting (vertical movement)

Move the Vision 8 at a speed lightly faster than that used for panning.

When you want to express height . . . tilt upward.

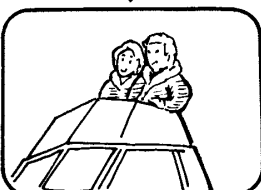
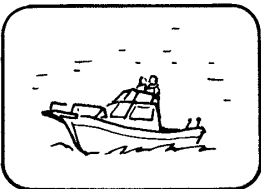
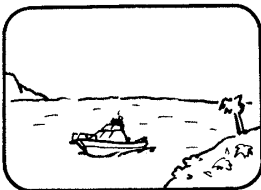


When you want to emphasize the last part of the picture . . . tilt downward.

Zooming

Vibration will become more apparent the more toward telephoto you go; be sure that the Vision 8 is held steady.

To focus attention on one object . . . zoom in.

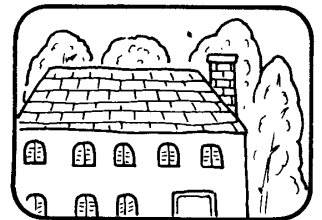
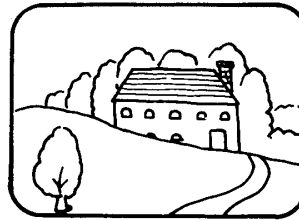


To show the surrounding conditions at the end . . . zoom out.



PICTURE SIZE (a mixture of far, mid-distance, and near shots)

A recording in which there is a long, continuous series of the same size shots, such as either all far or all near, will give an overall dull and monotonous impression. While you're recording, keep in mind what it is you want your viewer to see in each and every shot.



The size of the picture can considerably change the impression given by a subject.

Put variation in your recording by changing the size of the shots as well as the subjects in them.

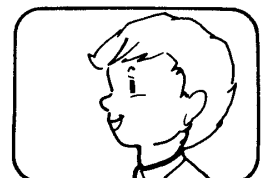
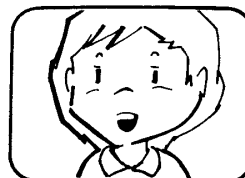
Size of people

The examples below show the basic shots.

Cutting shots of people at unusual places will decrease the harmony of the recording.

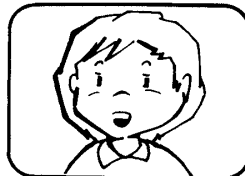
Close-ups

From neck up (Part of the top of the head can be clipped if necessary, but never the chin.)



If the subject is taken from the side, leave an open space in front of the face.

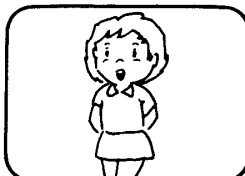
Bust shot: from the chest up



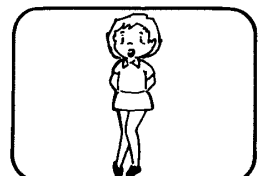
Waist shot: from the waist up



Knee shot: from the knees up



Full length: the entire body



LENGTH OF CUT (not too long, not too short)

There is no fixed rule, but the best length for any one shot is thought to be an average of 6 to 7 seconds. A long series of very short cut-up shots is tiring to watch, and if the recording is all one long cut it becomes boring.

If the emphasis is on the sound

Use the pauses in the dialogue to change scenes.

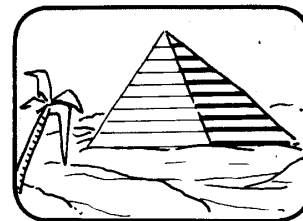
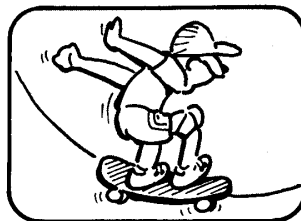
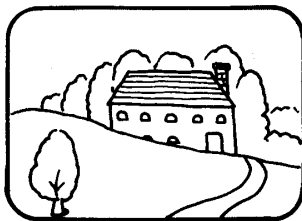
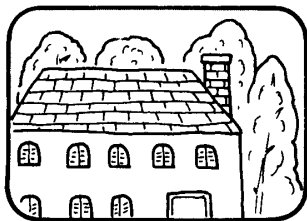
If the emphasis is on the picture

Near views should be slightly short.

Distant views should be slightly long.

Interesting views and action shots should be slightly long.

Views which change very little or not at all should be slightly short.



There is more information in a distant view than in a near view, so it takes a little longer to take it all in.

Record with the playback picture in mind and go over the explanation of the recording in your head as you take the shots.

EXTRA LIGHTING FOR INDOOR RECORDING

The brighter the scene, the clearer it is.

For beautiful colour results, a constant and fixed brightness is very important. If indoor scenes do not seem bright enough, consider ways to add more light.

Which type of lighting is best? (the types of lights and how to select one)

Halogen lights, the type of lighting used by photographers, is suggested. The following types of lighting are also available for certain applications.

Easy to use and illumination of a wide area ... reflector-type flat light

For special illumination effects ... reflector-type spot light

Directing the lights

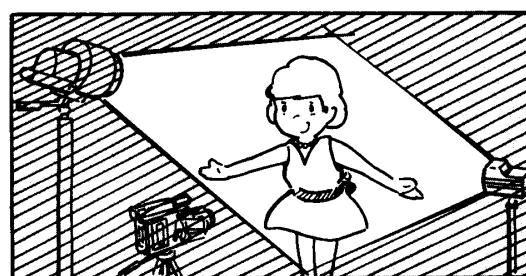
The effect will vary greatly according to the number of lights used and how they are directed at the subject.

For one light:

The light should basically be directed diagonally from the front. With a single light, the contrast will always be strong. Use another light if you want to get rid of the shadows.

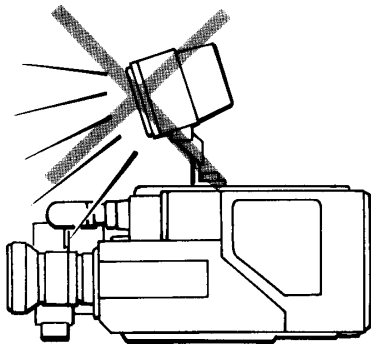
For two lights:

Direct one diagonally from the front, and position the other at the side of the subject so as to eliminate any shadow. If the use of additional lighting causes the contrast to be excessively strong, direct the light at the ceiling or reflect it off a white wall, cloth, or paper for a softer effect.



Lighting notes

* Be sure that lighting is not aimed directly at the Vision 8. Use the light horizontally or facing upward. Be especially careful of the direction in which lights attached to the accessory shoe are facing. The heat from a close light could damage or deform the Vision 8 case, etc.



- * Never attempt to connect a light heavier than 500 g (1 lb) or a flat light (the light is dispersed to the front and sides) to the accessory shoe. Heat from the light will be transmitted to the cabinet and could cause deformation. When using such additional lighting, mount the light on a stand designed for this purpose.
- * The lights become extremely hot; be careful that neither you nor anyone else is burned by touching them.
- * It is better not to mix different kinds of lights. Different types of lights have different colour temperatures, so mixing them will result in an incorrect colour of the subject.

For more detailed information, refer to the instructions accompanying the light being used.

FOR BEST FINAL RESULTS

FOR VIDEO RECORDING, ORGANIZATION MAKES ALL THE DIFFERENCE!

Editing is a very important step for putting the final version of your story together. That's why it's so important for you to plan ahead, to decide what you're going to record, in what order, and how long each scene will be. The 5W1H system (why, who, what, when, where, and how) can be of immense help in assisting you plan ahead for successful results.

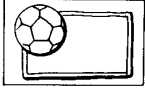


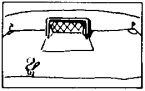


Write down what it is you want to record

After you've decided on the main theme, work out the development and order of scenes, and make rough notes of just how you plan your story will progress. Rough sketches of the various scenes might help. You should plan to check out the recording location(s) ahead of time if possible. For certain events, such as a school play, try to get an advance copy of the program. All of the advance plans you can make will be a great help when it comes time to make the actual recording, letting you concentrate on doing your best work without unnecessary crises that you might have foreseen.

Making titles

A title for your production, and perhaps "credits" too, can add great interest and make it much more professional-like.

Script example

Sounds and camera-work	• Soccer game	• Lined notebook paper, etc.
Sound effects and back-ground music	5 sec. Title (Sound effects: music from a TV soccer news report) 	Title Mother: Date, place, etc. • Scene progression and narration
Recording time	• 10 sec. Zoom-out • Frame-out 	Son: A few words before the big game
"Frame out" indicates a scene change.	• 6 sec. Cut-in 	Occasional short scenes to establish the season
Camera-work	• 30 sec. Cut-out Panning 	Mother: Description of the field
	2 min. 10 sec. 	Description of the players
A rough sketch of the scene in a "TV frame"	2 min. 15 sec. Zoom-in 	Mother: Cheering Cheerleaders and fans rooting for the team

THINGS YOU'LL WANT TO KNOW ABOUT LIGHT AND COLOUR

BRIGHTNESS GUIDE

Brightness is the first condition for the best results. Use the following table as a reference in providing an ample amount of brightness.

ND filter is needed.	Unit (lux)	Snow-covered mountains Ski slopes Beach on clear summer day
	100,000	Clear-sky sunlight at noon (100,000) Clear-sky sunlight at 3 PM (35,000) Cloudy-sky sunlight at noon (32,000)
	10,000	
Useful range		Cloudy-sky sunlight one hour after dawn (2,000)
	1,000	Next to window in office with fluorescent lighting (1,000) Clear-sky one hour before sundown (1,000)
	500	Inside a department store (500 to 700) Ticket gate of a train station (650)
More lighting is suggested		Office with fluorescent lighting (400 to 500) 13-m ² room with two 30-W fluorescent lights (300)
	100	Subway platform (300) Shopping arcade at night (150 to 200)
More lighting is needed		Inside movie theater at intermission (15 to 35)
	10	Candlelight (10 to 15)

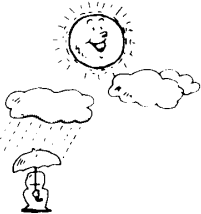

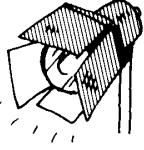
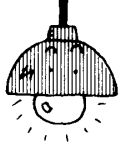

When an ND filter is needed

For extremely bright scenes which exceed the stop-down range, such as the beach on a clear summer day or a snow-covered mountain on a clear winter day, an ND filter can be used to obtain a natural recording. (Refer to table above.)

There are three types available, ND2, ND4, and ND8, and the exposure rates are 1/2, 1/4, and 1/8 respectively. Select a filter to fit the 52-mm diameter of the lens.

WHAT IS COLOUR TEMPERATURE? (The white balance adjustment)

As the temperature of an object increase, it begins to give off light. The colour of the light and the temperature of the object have a fixed relationship. We use this relationship to express the colour of the light by using the absolute temperature in degrees Kelvin of the object radiating light or the colour. This is then called "colour temperature". Colour temperature, then, is a way of indicating the colour of light. As the colour temperature increases, the colour of the light changes: red to yellow to white to blue.

Colour temperature (°K) of natural light	Colour change	Colour temperature (°K) of artificial light
Sunlight on perfectly clear day Sunlight with light cloud cover Sunlight on cloudy or rainy day 	10,000 (°K) 10,000 (°K) ↑ 8,000 8,000 ↑ 7,000 Blue light 7,000 ↑ 6,000 6,000 ↑ 5,000 5,000 ↑ 4,000 White light 4,000 ↑ 3,500 3,500 ↑ 3,200 3,200 3,000 3,000 ↑ 2,500 Yellow light 2,500 ↑ 2,000 Red light 2,000 ↓	Fluorescent lamp (daylight colour)  Fluorescent lamp (White colour) Fluorescent lamp (warm white colour) Studio lamp Halogen lamp  Incandescent bulb  Candlelight 
Direct sunlight ↑ 2 hours 1 hour 40 min. Time after sunrise or before sundown ↓ 30 min. 20 min. Sunrise, sundown		

ACCESSORY LIST

The following accessories can add greatly to your enjoyment of the Vision 8.

Name		Description
VTT-8P Video Tuner Timer (sold separately)		* For recording TV programmes and charging the battery pack. * The IR-8P Wireless Remote Controller is included.
VCP-8 System Case (sold separately)		* Convenient for carrying your Vision 8 and other accessories. * Hold the Vision 8, Battery Pack, tape, RF Multiconnector, AC Pack and Battery Charge Adaptor.
VRM-8 Remote Controller (sold separately)		* For convenient remote control of your Vision 8 from a distance.
VK-8P Accessory Kit (included)	NP-22 Battery Pack	* A rechargeable Ni-Cd battery pack.
	VAP-8P AC Pack	* To operate your Vision 8 on ordinary household current (instead of using the battery pack). * Can be used in combination with the Battery Charge Adaptor for recharging the Battery Pack.
	VAF-8P RF Multicon- nector	* Includes various connection terminals to permit the Vision 8 to be connected to TV, a VCR, etc. * Antenna selector, 75 Ω coaxial cables (2) and antenna connector are included.
	VBC-8P Bat- tery Charge Adaptor	* Can be used in combination with the AC Pack for recharging the Battery Pack.
	P5-30 8 mm video tape cassette	* 30 minutes of recording can be made.

For detailed information concerning the use of these accessories, be sure to read the corresponding Owner's Manuals.

BEFORE GOING OUT TO RECORD

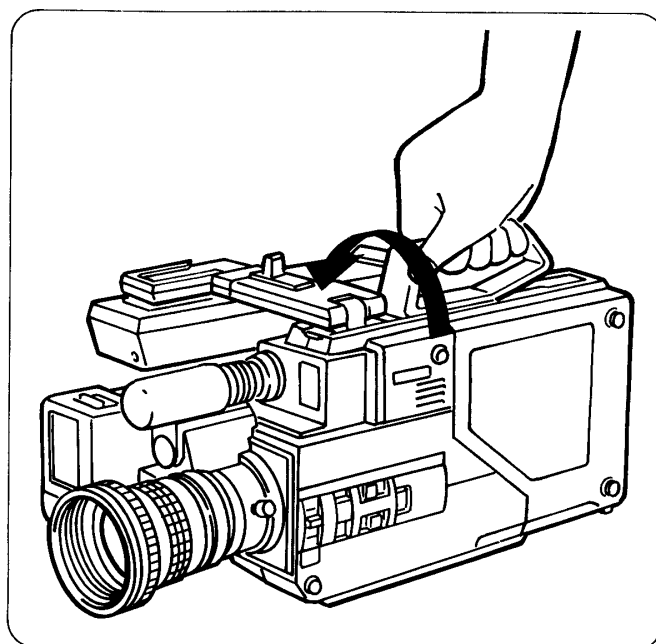
Have you checked all equipment?

You should have all equipment in good order and ready for immediate use. Be sure you don't miss any once-in-a-lifetime opportunities because of a small part failure or depleted battery.

Things you must take	
Vision 8	Did you attach the shoulder belt?
NP-22 Battery Pack	Is it fully charged? Did you bring enough for the planned recording time? (Each can be used for about 60 minutes.)
8 mm Video Tape Cassette	Did you bring enough for the planned recording time?
Owner's Manual	Useful if you have a question or problem.
Things that would be convenient	
Tripod	Necessary to ensure stability.
VAP-8P AC Pack	Can be used in places where an electrical outlet is available. Useful for charging the Battery Pack (in combination with the VBC-8P Battery Charge Adaptor).
VBC-8P Battery Charge Adaptor	Can be used in combination with the AC Pack to charge the Battery Pack.
Video Light	Necessary for recording in dark places where available light is not sufficient. Can be conveniently attached to the accessory shoe.
Earphone (mini-plug)	For monitoring sounds during recording.

Note

If you carry the unit with the EVF adaptor mounted, fold the viewfinder over 180°, as shown in the figure at the right.



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