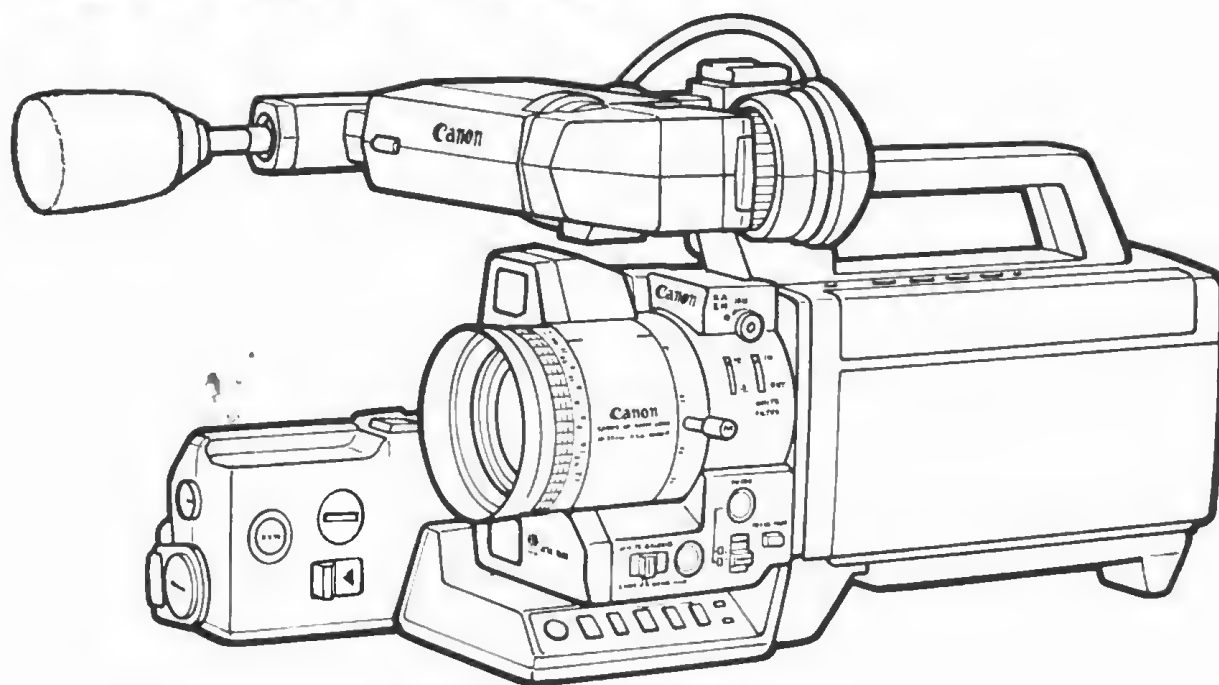


Canon VC-30



E Instructions

D Bedienungsanleitung

F Mode d'emploi

ENGLISH

DEUTSCH

FRANÇAIS

CANON COLOR VIDEO CAMERA VC-30

Thank you for purchasing the Canon Color Video Camera VC-30. It is compatible with other Canon video components, such as the VR-30 recorder. For the fullest understanding and enjoyment of your video system, please read this instruction book with the camera at hand before using it.

- The Canon VC-30 is designed for use in countries under the PAL standard.
- Included in the Camera Package is:
 - (1) Canon Color Video Camera VC-30
 - (1) Lens Cap
 - (2) Batteries (NR44)
 - (1) Shoulder Strap
 - (2) Joint Hooks
 - (1) Monochrome Electronic Viewfinder

The lens cap provided with the VC-30 is to protect the lens and camera tube when the camera is not in use. Attach the band to the camera grip to prevent losing the cap.

WARNING:

TO PREVENT DAMAGE TO THE PICK-UP TUBE, DO NOT AIM THE LENS DIRECTLY AT THE SUN OR BRIGHT LIGHTS, EVEN WHEN THE POWER IS OFF.

CAUTION:

TO PREVENT FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

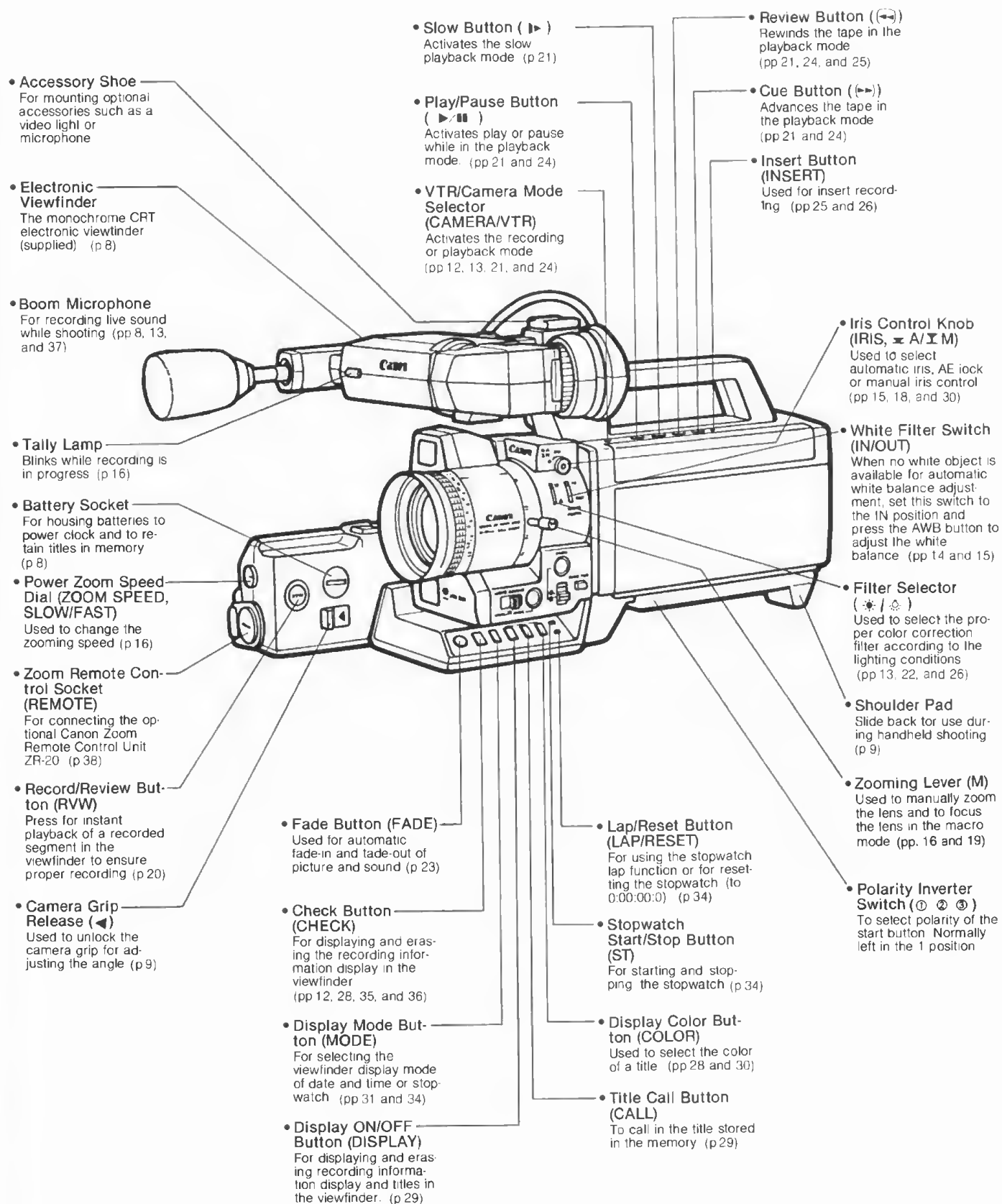
WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

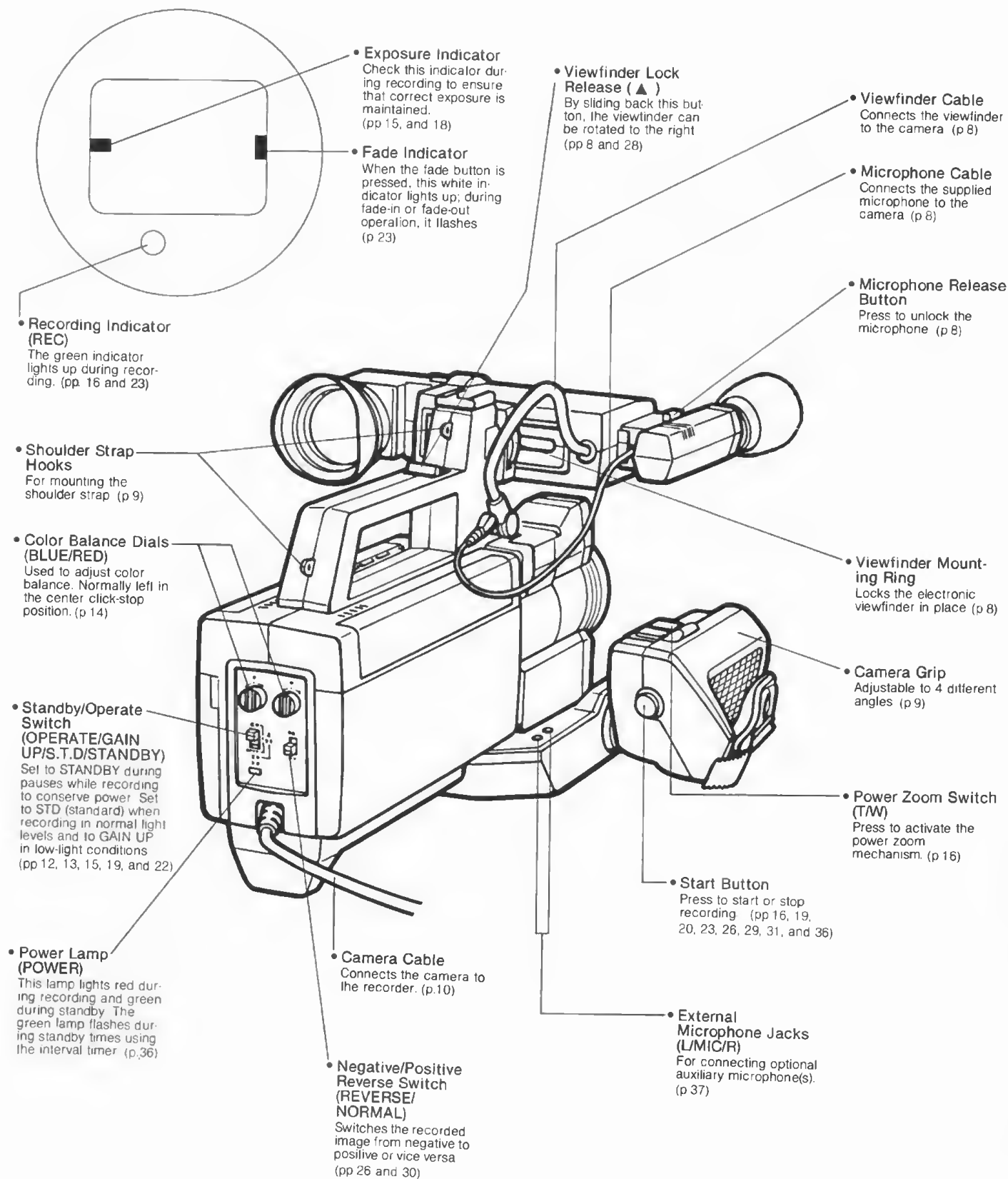
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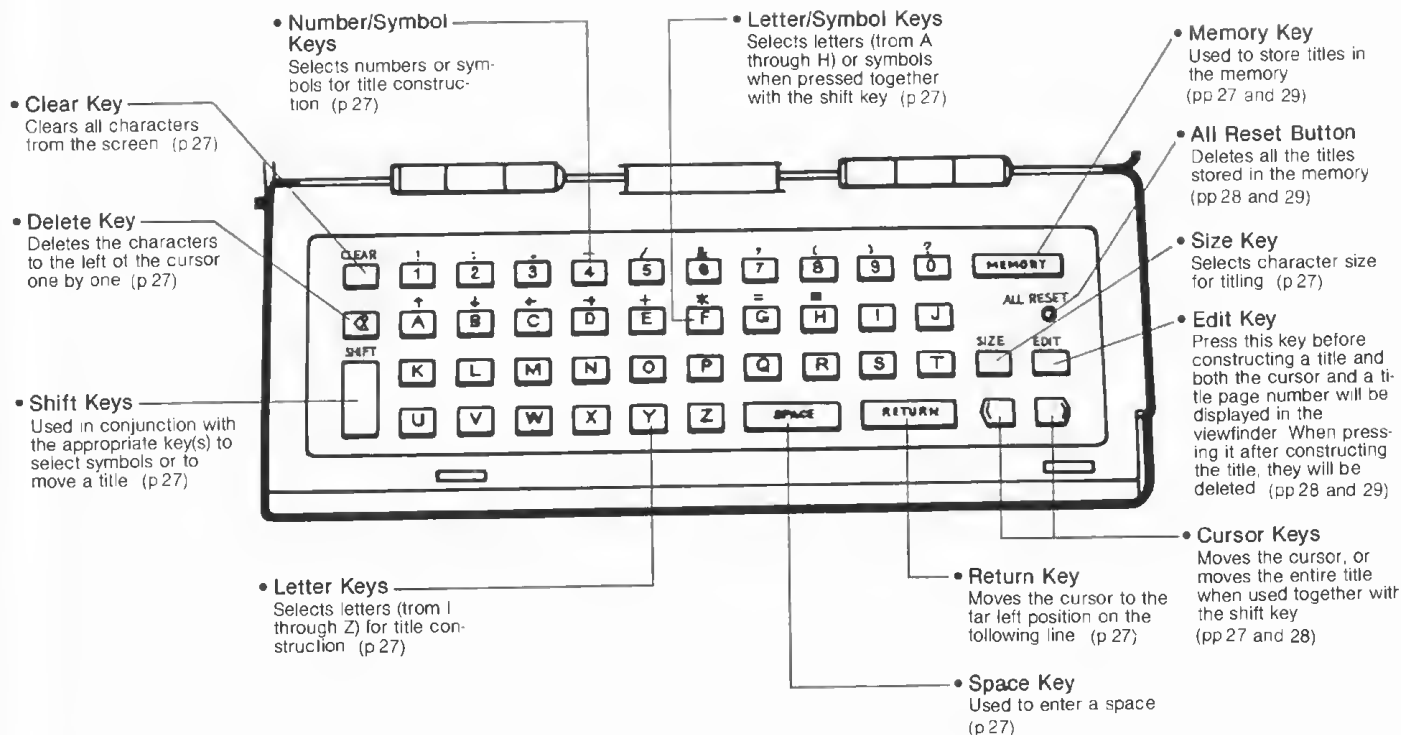
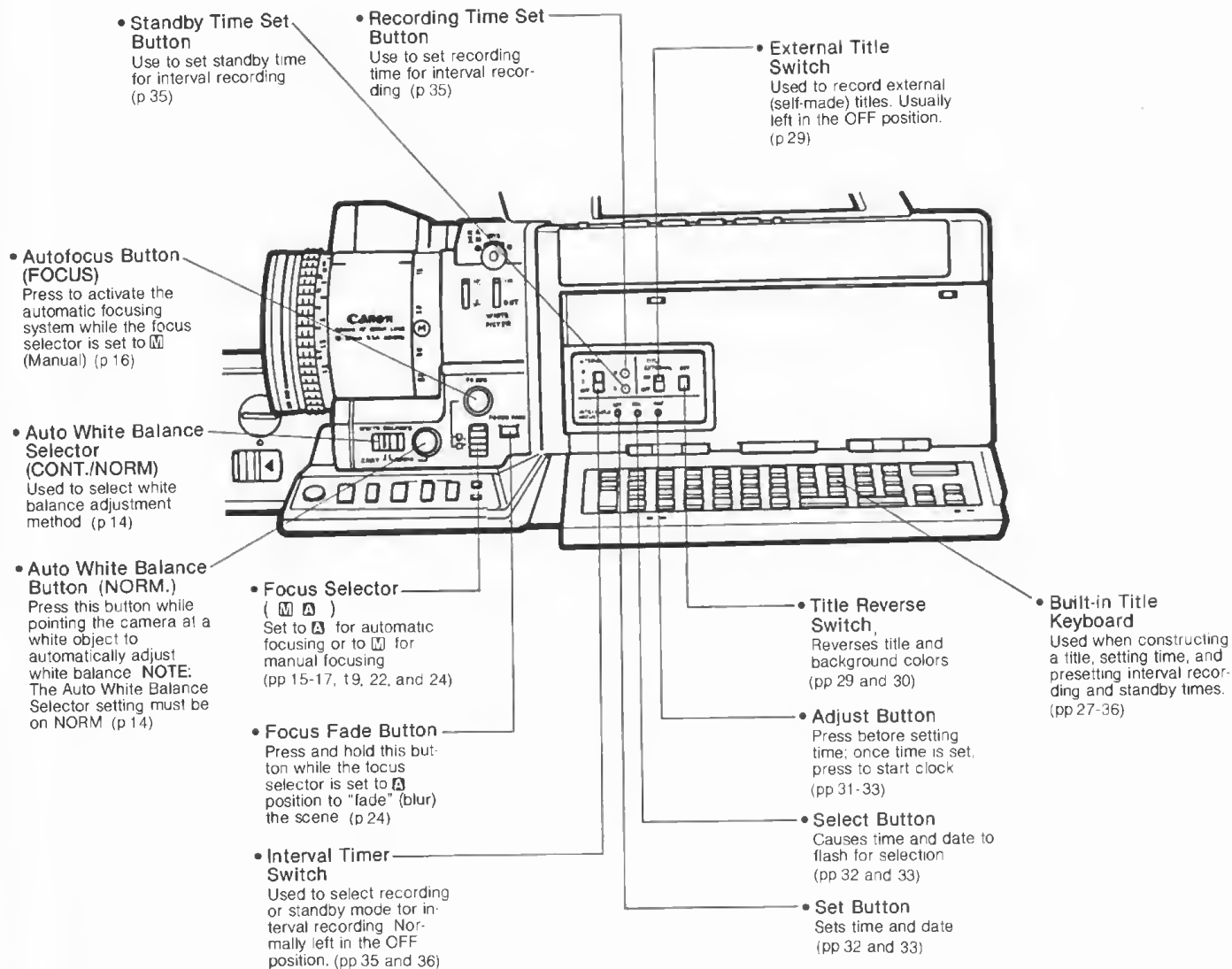
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Nomenclature and Functions



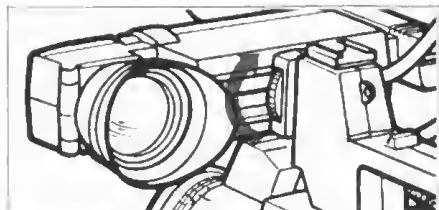
For details, refer to the indicated page(s).



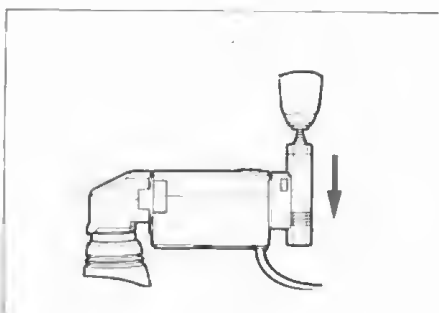


Mounting the Electronic Viewfinder and Microphone

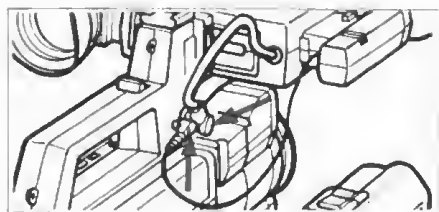
Mount the electronic viewfinder (EVF) before turning on the recorder power switch. The viewfinder can be used from either the right or the left side of the camera. Mount it to the camera using the following procedure:



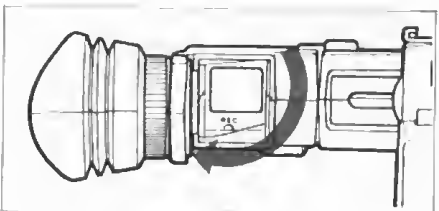
1. Decide whether you want to use the viewfinder from the right or left side of the camera. Then attach the viewfinder so that the eyepiece is on the desired side and tighten the mounting ring to secure the viewfinder.



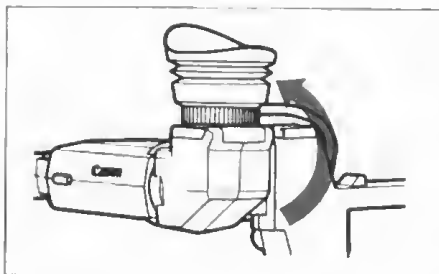
2. Slide the microphone along the guide rails on the viewfinder until it locks in place.



3. Connect the viewfinder cable to the EVF socket. The socket has a cut-out for proper positioning. Then connect the microphone cable to the MIC jack.



4. The eyecup portion of the eyepiece is hinged. Open the eyecup when it is not needed.



5. The viewfinder eyepiece can be rotated up and down. Use it in the most convenient position according to the camera angle.

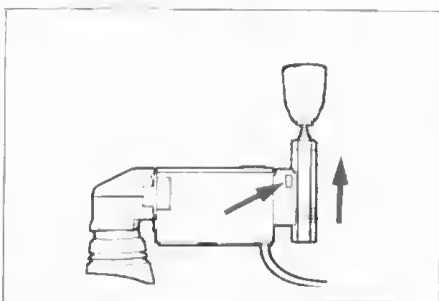
- Eye-level angle (the eyepiece is horizontal)



- High angle (the eyepiece faces down)



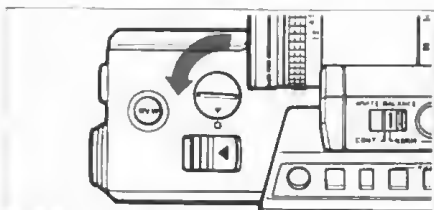
- Low angle (the eyepiece faces up)



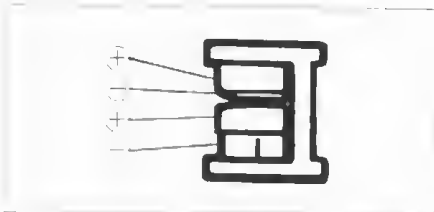
6. To remove the microphone from the viewfinder, press the microphone release button and slide off the microphone.

Loading the Batteries

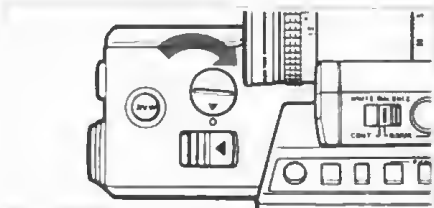
Batteries are required in the VC-30 to store titles and display date and time.



1. Using a coin, turn the battery holder in the camera grip counterclockwise and remove it from the grip.



2. Place two alkaline manganese batteries (NR44 1.5 volt) into the holder with the + side up. Do not reverse the polarity of the batteries.



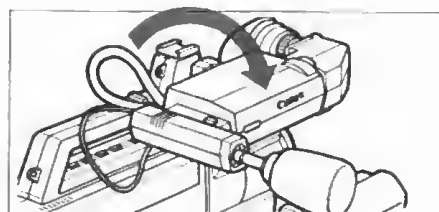
3. Insert the battery holder into the socket, align the notched portions of the holder with the cut-outs on the socket and rotate it clockwise until the markings (▼ and ●) are aligned.

Warning:

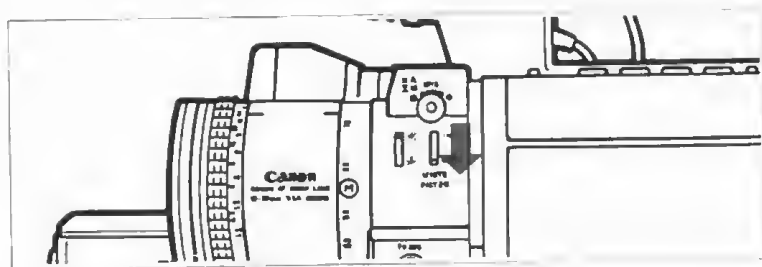
Keep batteries out of children's reach. If batteries are swallowed, contact a physician immediately.

Note:

1. The optional Canon Microphone Extension Cable C-11M* (10m) allows the microphone to be detached from the camera and placed close to the sound source for more precise sound recording of distant subjects.
* Available in the near future.
2. Before storing the camera, slide the viewfinder lock release on the camera handle and swing the viewfinder to the right until it locks in place.

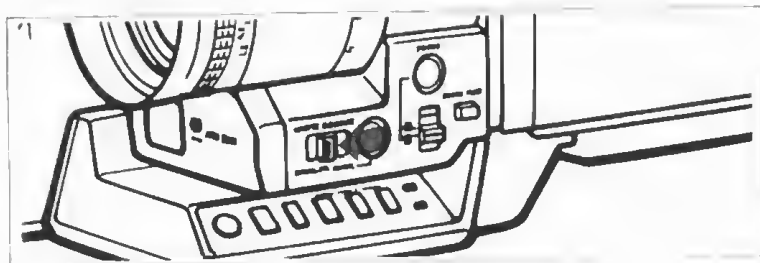


Continuous White Balance Adjustment Method



12 Set the white filter switch to the OUT position and the auto white balance selector to the CONT position. The camera will start and complete white balancing automatically

- If the white balance is adjusted in this manner, it is not necessary to readjust it even if the light source is changed
- For best results, adjust the white balance following the procedures described in item 8 above
- After switching the auto white balance selector from CONT. to NORM, readjust the white balance.



Example 1

Example 2



Backlit subject



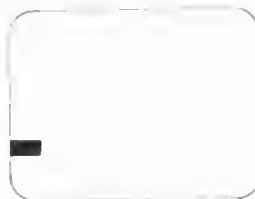
The upper part of the background is a bright sky

In the following cases, it is impossible to select the continuous white balance adjustment method. So white balance should be adjusted manually (For the procedure, see "Steps 8 to 11 on page 14.")

- When there is a bright spot around or near the subject:
Example 1,2

- Avoid manually controlling the iris in the continuous white balance adjustment mode

Checking the Exposure



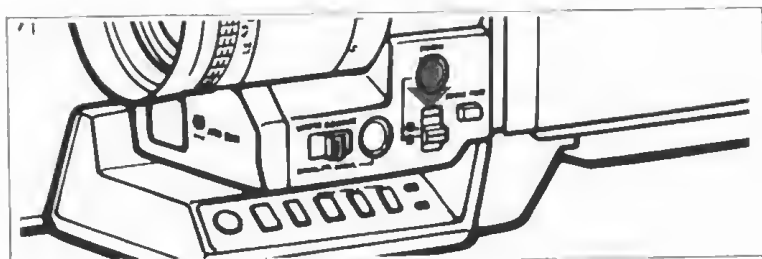
13 Confirm that the iris control knob is set to the auto position (the knob should be pushed in).

14 Point the camera towards the subject and confirm that the exposure indicator is not positioned in an extremely high or low position in the viewfinder. If the indicator is in a high position, use an optional ND (neutral density) filter. If it is in a low position, use additional lighting for best results

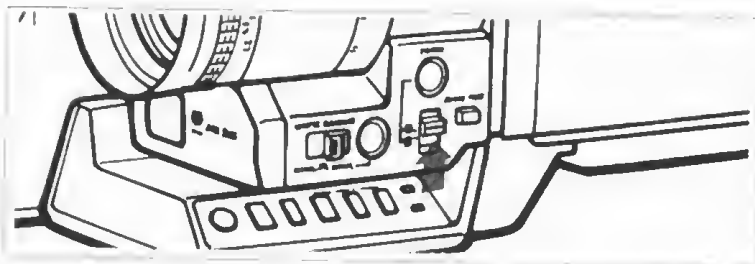
- If the lighting is insufficient (underexposure), "LIGHT - LOW" will be displayed in the viewfinder
- When recording in very low light conditions, set the standby/operate switch to GAIN UP. Picture quality may be somewhat lower at this setting
- If the subject is of high contrast, adjust the exposure manually (See p. 18)

Autofocus

For easier focusing, remove the recording information display from the viewfinder by pressing the check button.



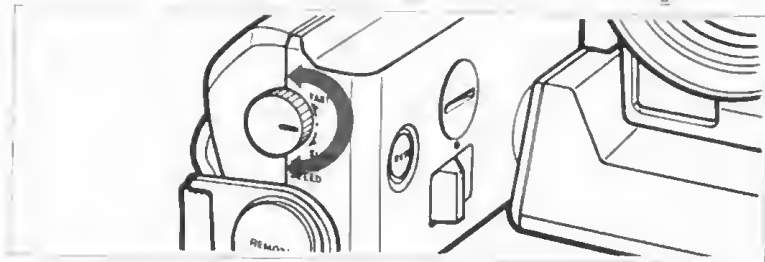
15 By setting the focus selector to the (A) position, the camera will automatically focus the subject



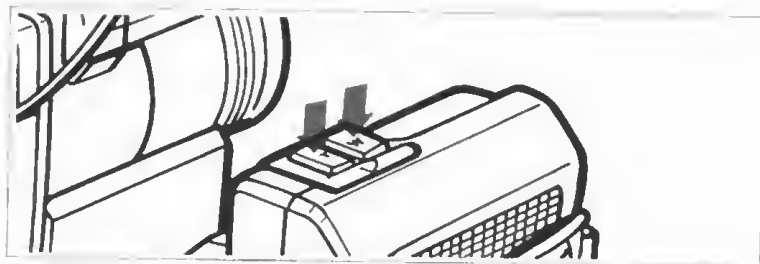
16. If the autofocus button is pressed while the focus selector is in the (M) (manual) position, the camera will also automatically focus.
 If the autofocus button is not pressed, you must manually focus by rotating the lens.
- Don't cover the autofocus windows with your fingers or other object during autofocusing



- For manual focus:
- ① Zoom in on the subject by setting the zooming lever to the telephoto setting (maximum focal length).
 - ② Focus the lens.
 - ③ Compose the picture.



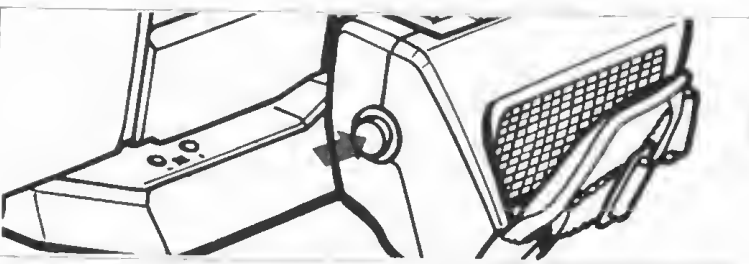
- 17 Adjust the zoom speed with the power zoom speed dial.
- Use the zooming lever when manually zooming



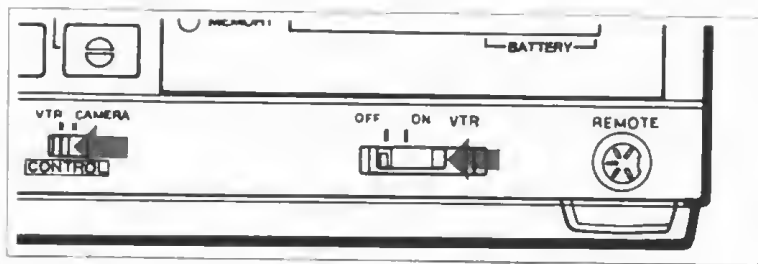
18. To zoom, press the power zoom switch to frame the scene as desired



- 19 Push the camera start button to begin recording. The recording indicator in the viewfinder glows green while recording is in progress. The tally lamp on the front of the viewfinder flashes red.



20. To stop recording, press the start button again.



- 21 After recording, set the recorder control selector to the VTR position before turning off the recorder VTR switch

Subjects Not Suited for the Autofocus System

The autofocus mechanism is designed to focus the majority of subjects and, in most cases, performs this function very well. There are some subjects, however, which it may not focus well. They are:



- 1 Subjects with little or no reflectance (e.g., water surface or black hair)



- 2 Subjects with very glossy or shiny surfaces (e.g., the exterior of a car)



- 3 Subjects with an object in front of them (e.g., an animal in a cage)



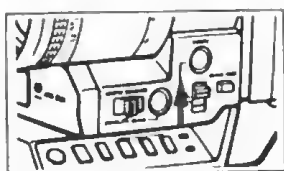
- 4 Subjects which are not centered in the viewfinder



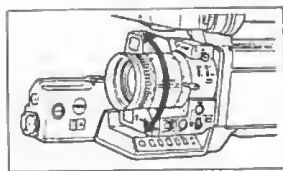
- 5 Subjects whose contrast varies substantially in a vertical direction (e.g., windows of a building)

In such cases, set the focus selector to (M) and manually focus the lens while monitoring the subject in the viewfinder.

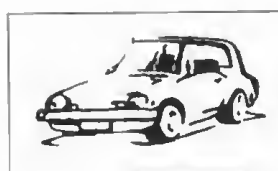
For manual focus:



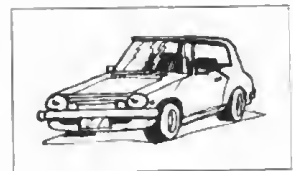
Set the focus selector to (M).



Turn the lens focusing ring



Subject gradually comes in focus



Subject is in focus.

Other Operations

Using the Iris Control Knob

Do not point the camera directly at the sun or any other bright light source to protect the camera tube from excessive light entry

When shooting a backlit subject (e.g., a person with a bright window behind him), a scene with a high percentage of sky, or a subject surrounded by snow, it is necessary to adjust the iris manually or use the AE Lock feature so the subject does not turn out too dark.



Automatically adjusted



Manually adjusted

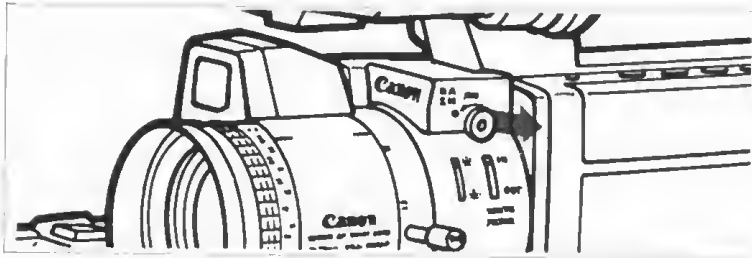
1 AE (Auto Exposure) Lock

This is used for recording backlit subjects.

- Zoom in (or approach) the subject so it virtually fills the whole screen. Then pull out the iris control knob; this locks the iris for correct exposure of the subject.
- Now compose the scene, zooming out if desired.

- Manual exposure is recommended when you are shooting a high-contrast scene (where extreme differences exist between highlights and shadows)
To increase the amount of light for exposure, pull out the iris control knob and turn it to the right to open the iris. This method can also be used to record backlit subjects. Turn the knob as you watch the subject in the viewfinder until the correct exposure is obtained

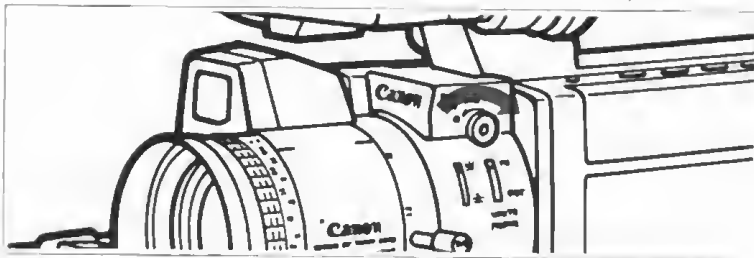
- To reduce the amount of light, pull out the knob and turn it to the left to close down the iris. This can be used to record a light subject with a dark background
 - If the exposure indicator in the viewfinder is at an extremely high or low position, turn the knob to the right or left to bring the exposure indicator near the center. (The knob may be turned freely in both directions.)
 - Be sure to push the iris control knob back in after recording the scene.



A)



B)



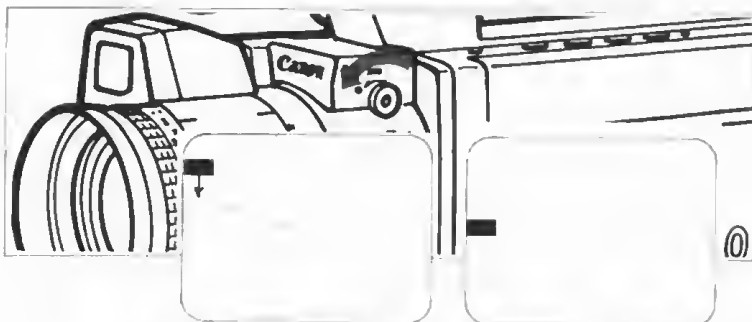
Turn the knob



Turn the knob further



Now the exposure is correct



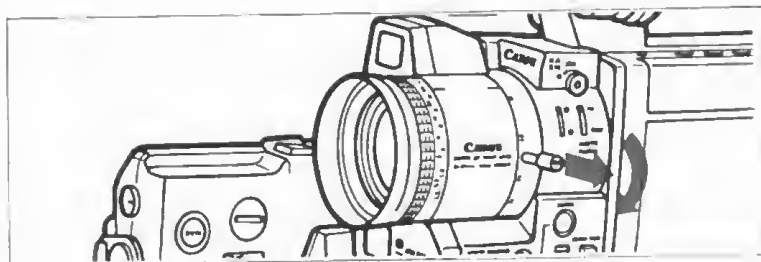
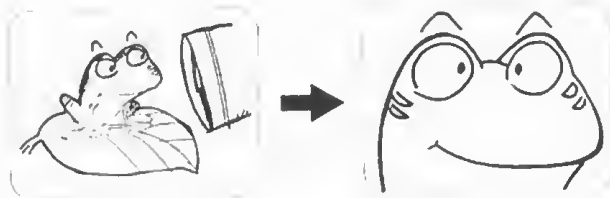
Subject is overexposed
Turn the knob.



Now the exposure is correct

Using the Macro Mechanism

Use the macro mechanism to shoot objects (such as flowers, insects and other suitable subjects) from a close distance.

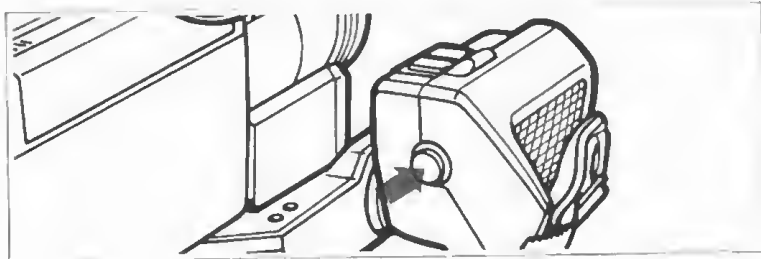


To enter the macro mode, set the focus selector to (M) (manual), rotate the zooming lever to the wide-angle position, pull up the zooming lever knob, and continue to turn the lever.

To focus while using the macro mechanism, use the zooming lever while observing the subject in the viewfinder. Focusing is possible down to approximately 4mm from the front of the lens.

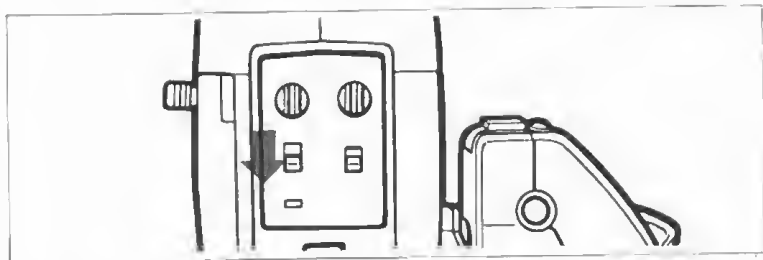
Using the Standby/Operate Switch

To conserve power during pauses of more than five minutes during recording, set the standby/operate switch to STANDBY. For pauses longer than about 10 minutes, set the recorder VTR switch to OFF.

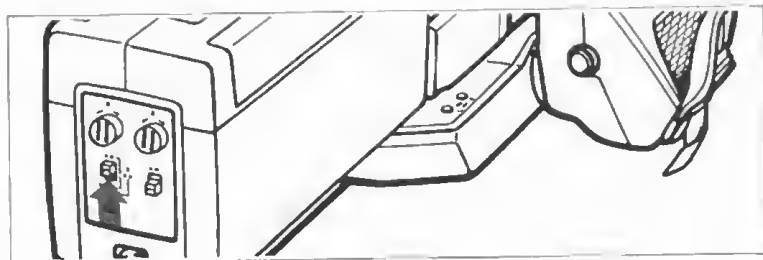


This switch is used in the following manner:

- 1 After recording, press the camera start button to place the recorder in the pause mode



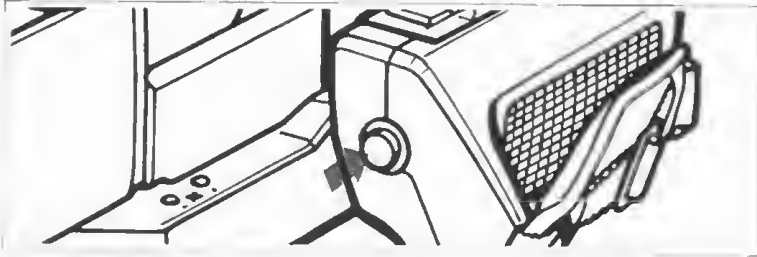
- 2 Set the standby/operate switch to STANDBY



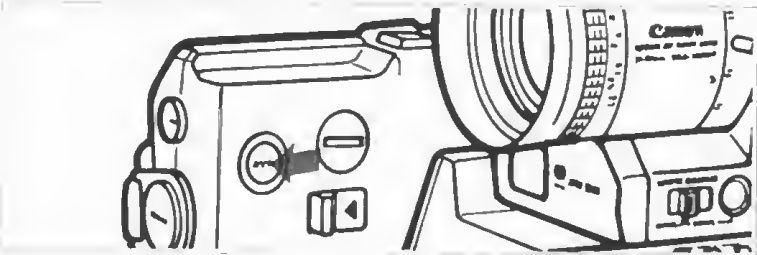
- 3 To resume recording, set the standby/operate switch to STD (standard) for shooting at normal light levels. Then readjust the white balance and press the start button to record

Record/Review Function

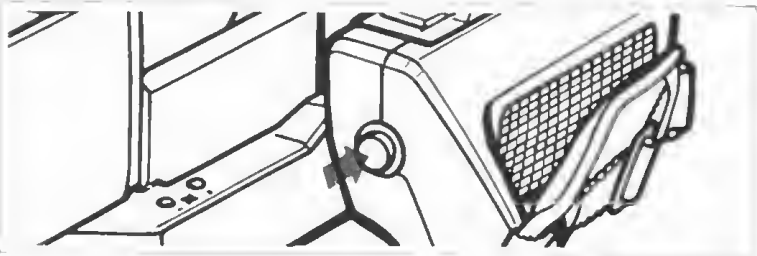
With the video recorder in the record pause mode, you can make an on-the-spot check by using the record/review button to play back a previously recorded segment.



- 1 After recording a scene, press the camera start button to place the recorder in the record pause mode.



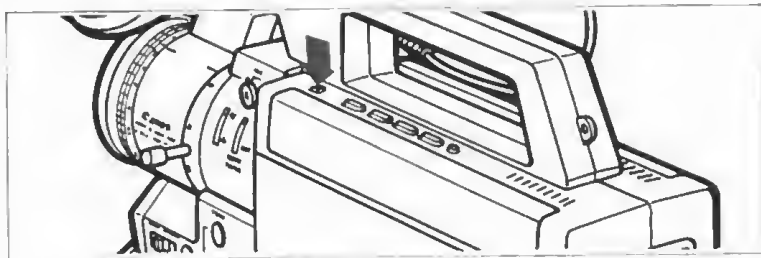
- 2 While watching the viewfinder screen, press the record/review button



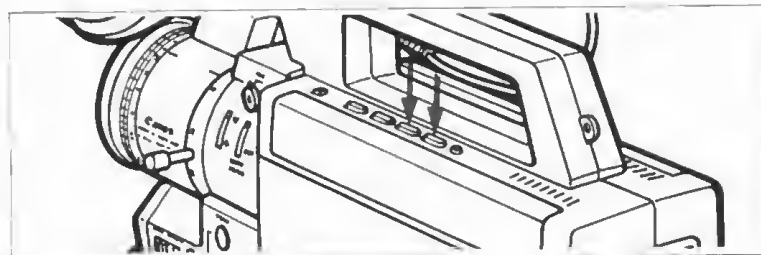
- 3 When the record/review button is pressed, the tape is re-wound slightly and the last two seconds of the recording are played back in the viewfinder. When the tape reaches the point at which the record/review button was pressed, playback stops and the recorder returns to the record pause mode automatically. To resume recording, press the start button

Instant Replay

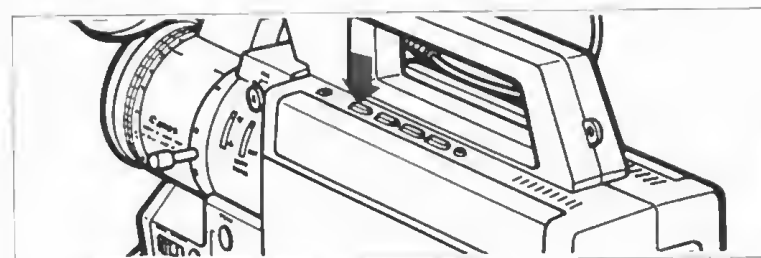
To play back recorded scenes in the viewfinder ...



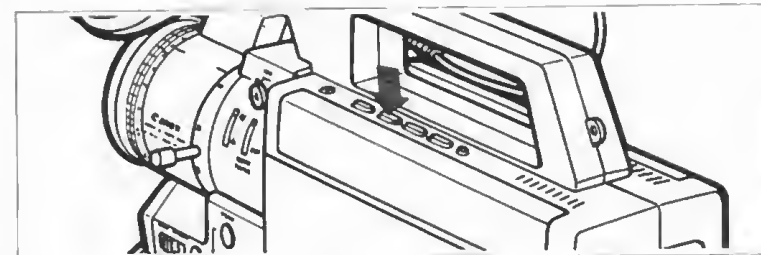
1. Set the camera VTR/camera mode selector to VTR.



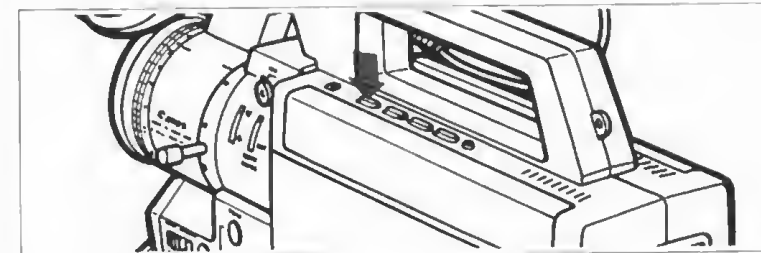
2. Continuously press the review (⏮) or cue (⏭) button to find the point from which you wish to begin playback. Release the button when the desired point is reached.



3. Press the play/pause (▶/⏸) button to play back the recorded picture in the viewfinder



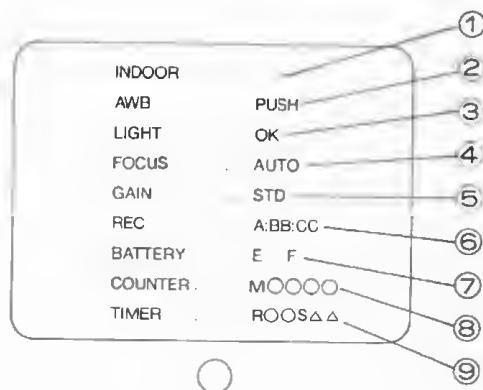
4. Slow-motion playback is accomplished by continuously pressing the slow (⏪) button. Single-frame playback is also possible by pressing the slow button intermittently.



5. Still playback is possible by pressing the play/pause button and placing the recorder in the pause mode

Viewfinder Recording Information Display

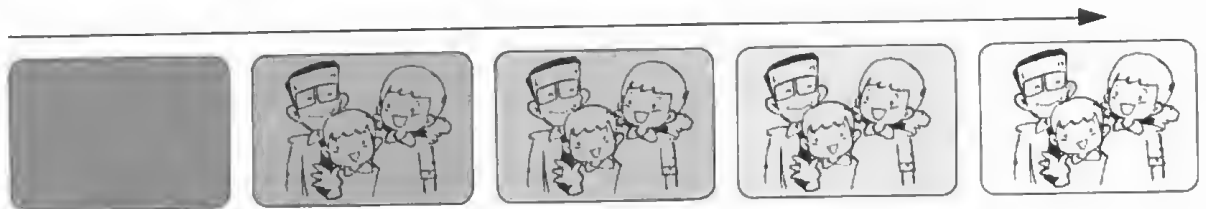
The viewfinder display denotes the following:



①	Filter selector	INDOOR: OUTDOOR:	The selector is set to (☀) for artificial light The selector is set to (☀) for daylight
②	Auto white balance	PUSH: OK: RED: BLUE:	White balance must be adjusted. The white balance has been adjusted The image is reddish The image is bluish
③	Exposure	OK: LOW:	Illumination is sufficient Illumination is insufficient.
④	Focus	AUTO: MANUAL:	The focus selector is set to (A) (Auto) The focus selector is set to (M) (Manual)
⑤	Standby/Operate switch	STD: UP:	The switch is set to STD (standard). The switch is set to GAIN UP.
⑥	Recording time	A:BB:CC:	The recording time up to the present is A hours, BB minutes, and CC seconds. The maximum time displayed is 9 hours, 59 minutes, and 59 seconds. The display can be reset by turning off the power.
⑦	Battery charge	E ——— F: E — F: E ⋯ F:	Battery charge is sufficient. Battery charge has been reduced Battery charge is exhausted. Recharge the battery or replace it with a charged spare
⑧	Counter	M	M denotes the memory, and the four-digit number C C C C denotes the amount of tape used.
⑨	Interval timer	R ○ ○ S △ △ S △ △ R ○ ○	Recording time is ○ ○ minutes, the standby time is △ △ minutes. The interval timer switch is set to the R (recording) position. Standby time is △ △ minutes, the recording time is ○ ○ minutes. The interval timer switch is set to the S (standby) position.

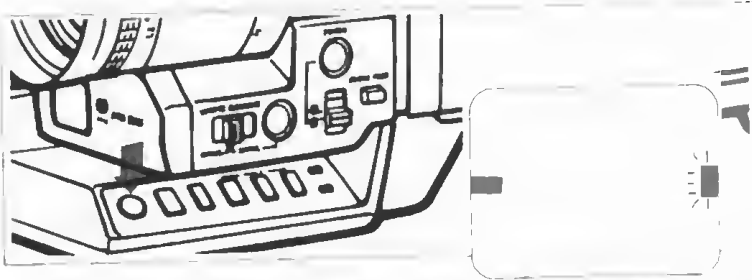
Fade-in and Fade-out Techniques

The VC-30 Video Camera is provided with various functions that assure more creative recording.

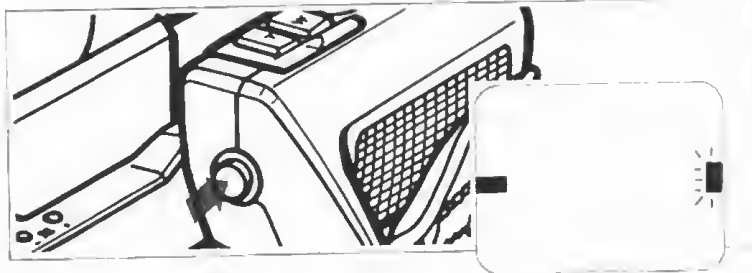


For picture and sound fade-in, prepare the camera in the same manner as you would for normal recording. Then follow the steps mentioned below:

Beginning the Recording with a Fade-In



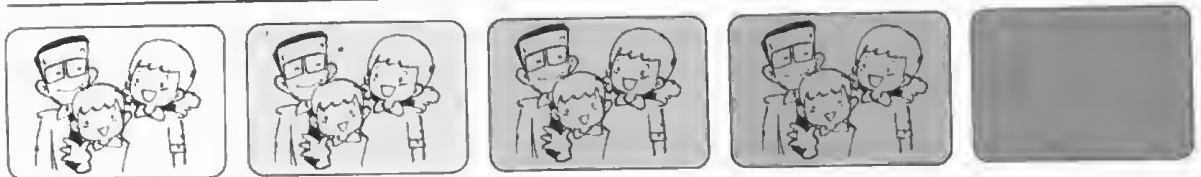
1. Press the fade button. A white fade indicator will appear in the right side of the viewfinder.



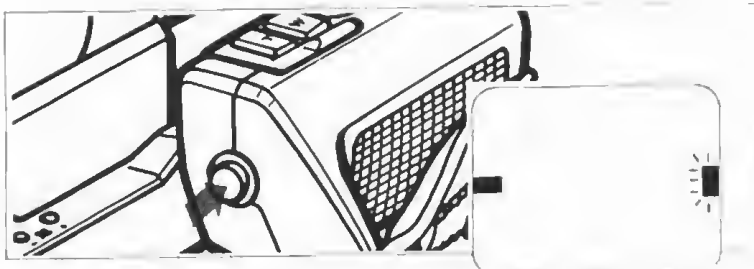
2. To begin the fade-in, press the start button; the recording indicator will light, and the fade indicator will start blinking to indicate that fading is in progress.
3. If the recording is to be ended in the normal manner, press the fade button again after you start to record. The recording can be stopped after confirming that the fade indicator is gone.

Note: If you inadvertently press the fade button, press it again to cancel fade operation, making sure the fade indicator disappears.

Ending the Recording with a Fade-Out



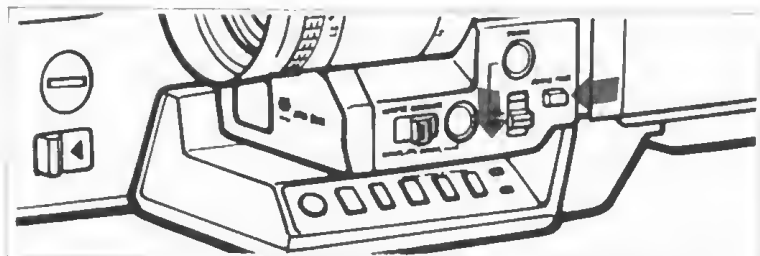
To end the recording with a picture and sound fade-out, follow the steps mentioned below after setting the camera for normal recording.



1. Press the start button to start recording.
2. After recording begins, press the fade button; the fade indicator will appear in the viewfinder.
3. Press the start button again. The fade indicator blinks and the picture and sound automatically fade out. The camera will automatically stop at the end of the fade-out.
4. Press the fade button to cancel the fade function.

Focus Fade

By using the focus fade recording technique at the beginning or end of scenes, you can enhance your recording.



Set the focus selector to the (A) (Auto) position.
Press the focus fade button

The scene will gradually go out of focus while the button is pressed. This is an effective way to end a scene.

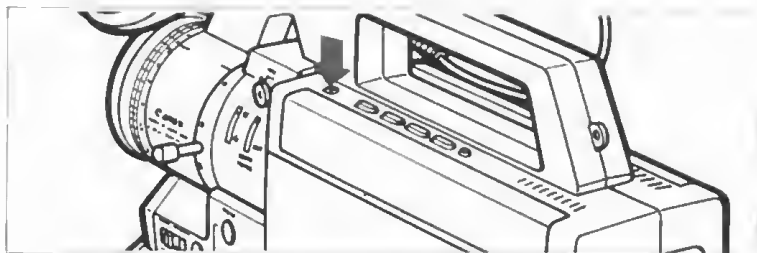
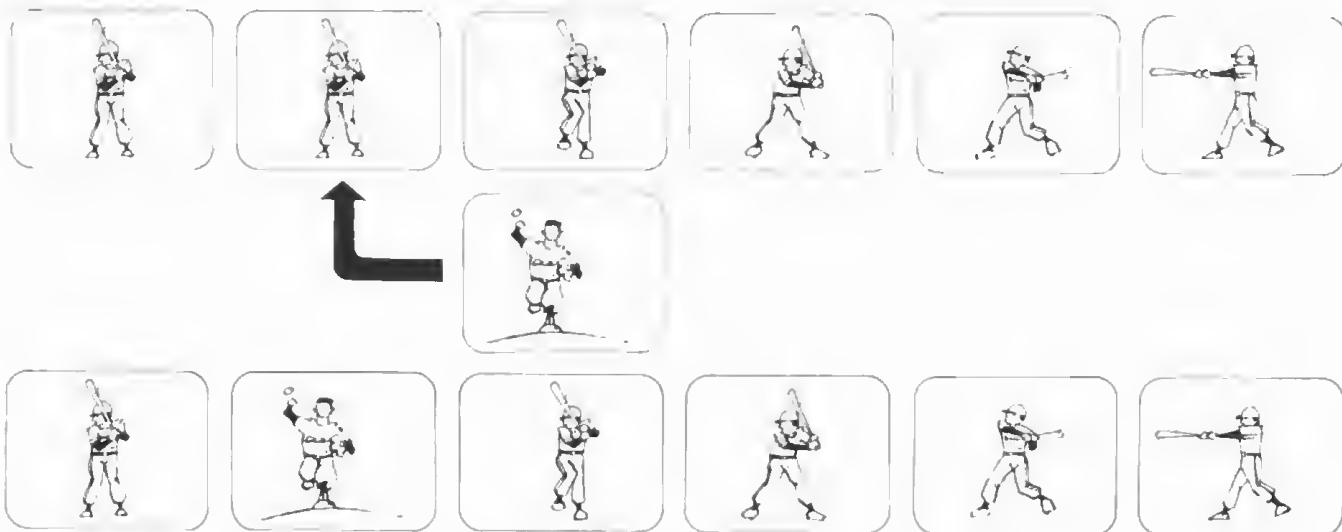
You can also begin a scene by first pressing and holding the focus fade button, then releasing it as a recording begins. At first the scene will be softly blurred and will then come into sharp focus.

- The scene goes out of focus because the lens shifts to the close-focus position. Therefore, if your subject is already close, focus fade will not be effective.

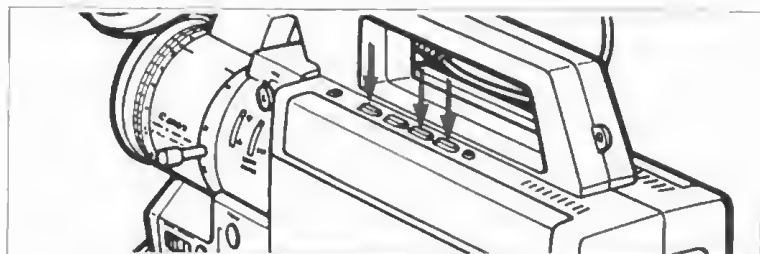


Insert Editing (To Replace a Scene with Another One)

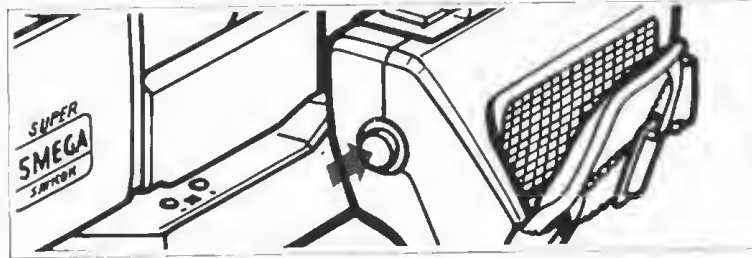
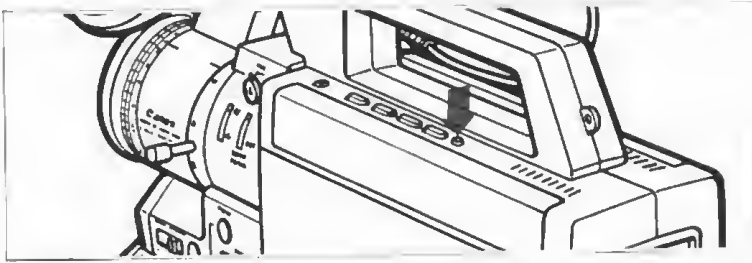
If you would like to replace a portion of tape you have recorded with another scene, use the insert editing function. (The audio track remains unchanged when using the insert editing function.)



- 1 Set the camera VTR/Camera mode selector to VTR.



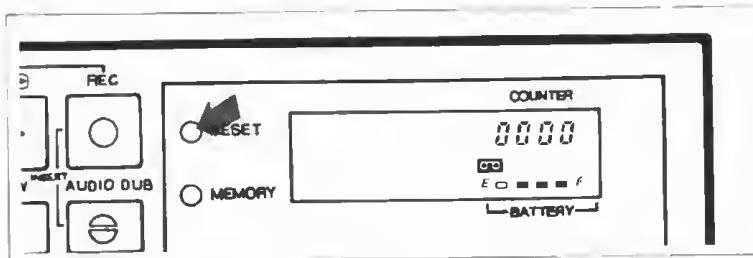
- 2 Using the camera cue (▶▶) or review (◀◀) button, locate the point where you would like to start the insert. After locating that point, rewind the tape slightly and use the play/pause (▶/||) button to play back one scene after another until the original point is reached.



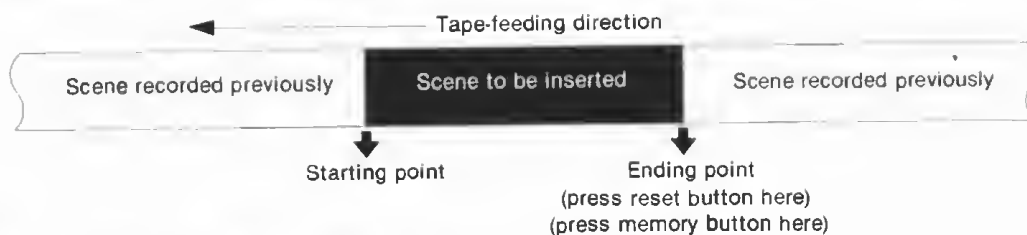
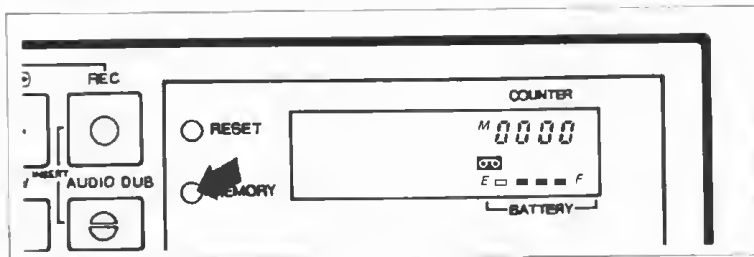
3. When the starting point has been reached, press the insert button to leave the recorder in the pause mode for a while. (If you are constructing a title, press the insert button before recording it. See pp 28 and 29.)

- Use the tape counter to accurately determine the length of the scene to be inserted.

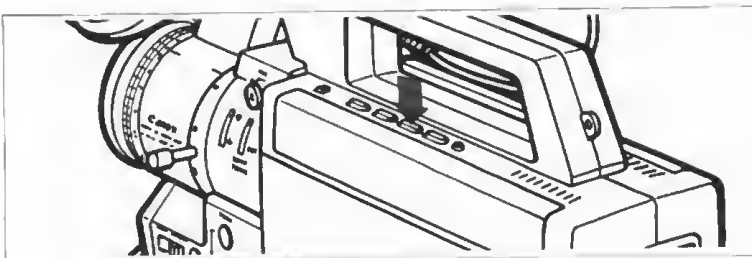
First, determine the starting and stopping points of the scene to be replaced. Then, start recording after setting the recorder counter and the memory in the following manner:

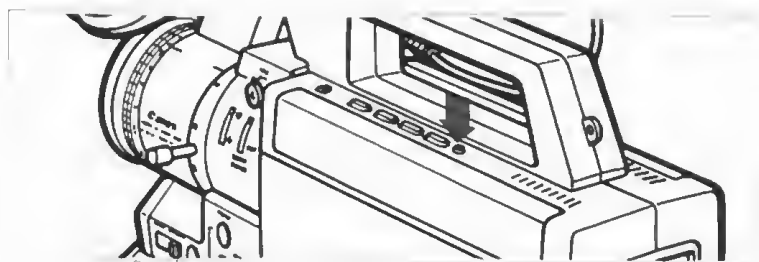


4. Press the recorder reset button so the counter reads "0000" at the point where the insert editing is to end. Press the memory button of the recorder (The letter "M" will be displayed in the recorder information display. An "M" will also appear in the counter section of the camera recording information display.)

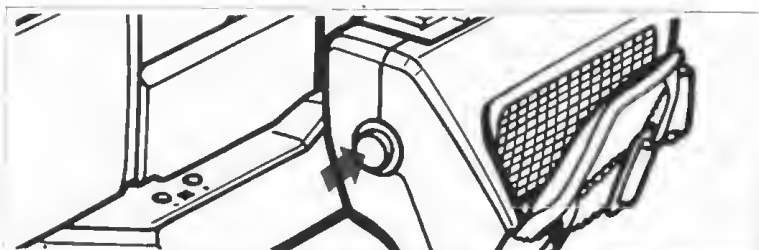


5. Use the review button to locate the point where you want to begin the insert





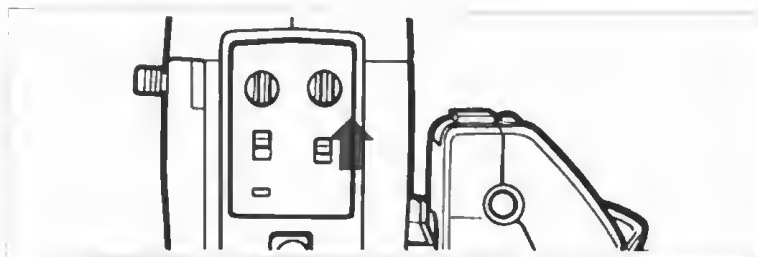
6. Then, press the camera insert button. The camera is now ready for insert editing.



7. Press the camera start button to begin recording. The recording will automatically stop when the tape counter reaches "0000".
- If the recorder is remote-controlled by the camera, the recorder is automatically turned off when the tape comes to the end.
 - Refer to the section on video insert editing in the recorder instruction manual for tracking adjustment.

Using the Negative/Positive Reverse Feature

The negative/positive reverse switch is used to record a positive image from negative film or to reverse the colors of the title characters. The special effect adds a creative touch to your video recordings.

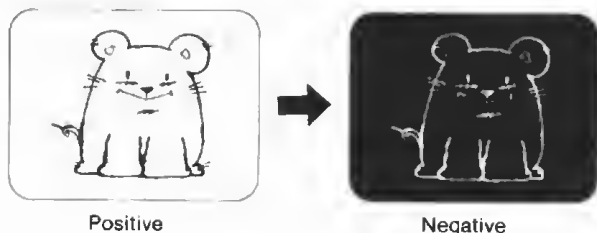


- For reversing the image or the colors of the title characters, set the negative/positive reverse switch to the negative side. All remaining operations are the same as for recording.
- Negative/positive reversing is applicable to recording only; it is NOT possible during playback.

By attaching the Canon DP Adapter DP-10 to the lens of the video camera, both 35 mm film negatives and positives (even if mounted) can be recorded.

Note: With the Canon DP Adapter attached for recording, the auto white balance display in the viewfinder may not change to "AWB ——— OK" even when the auto white balance button is pressed.

This is not a malfunction. The white balance adjustment depends on the light source and the color of the film being recorded. Even if the white balance display is "PUSH", "OK", "RED", or "BLUE" when using the DP Adapter, you must correctly adjust the color by using the filter selector and the color balance dials while viewing the picture on a color monitor or color television.



Positive

Negative

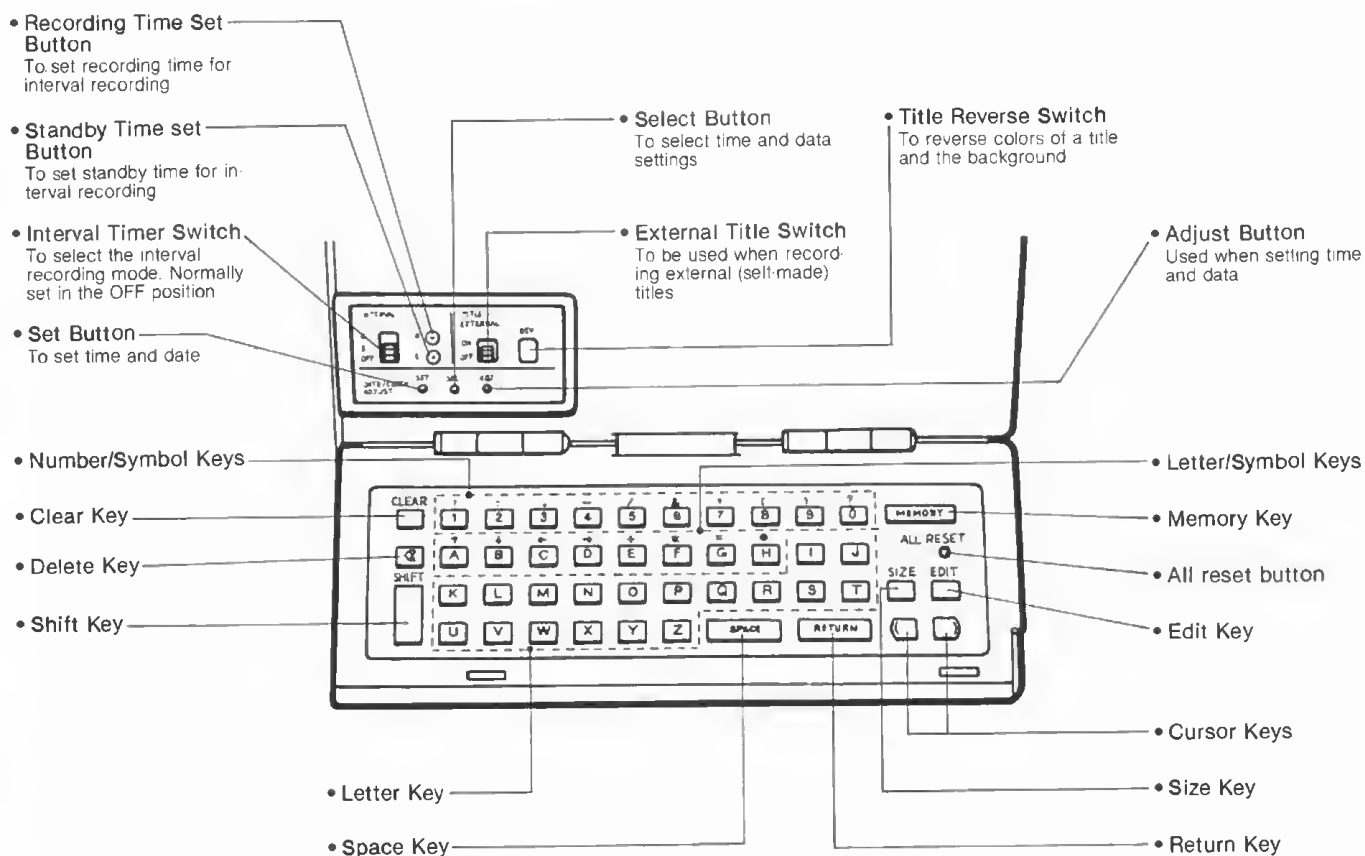
Using the Canon Video Camera VC-30 with the Canon Portable Video Recorder VR-10

When using the VC-30 in conjunction with the Canon Portable Video Recorder VR-10, the operation of the VC-30 does not basically differ, except for the differences in the VR-10 recorder functions.

Recording Titles, Date/Time and Stopwatch Readings (including Lap Time) and using the Interval Timer

By using the keyboard built into the camera, it is possible to select and record any of the following displays: Titles; Date/time; Stopwatch; Lap Time; Title and Stopwatch; and Title and Lap Time. Interval recording is possible by using the interval timer switch.

Keys and Their Operation and Functions



• **Letter Keys**
For selecting letters from the alphabet (I through Z)

• **Letter/Symbol Keys**
For selecting letters from the alphabet (A through H) or symbols (in conjunction with the shift key)

• **Cursor Keys**
For moving the cursor up, down, left, and right. By pressing these keys in conjunction with the shift key, a title already constructed can be moved to the left or right.

• **Shift Key**
By pressing this key with the number/symbol keys, symbols shown above the numbers may be selected. By pressing the shift key with the cursor keys, a title may be moved to the left or right.

• **Return Key**
When this key is pressed, the cursor will move to the far left position on the next line.

• **Size Key**
Changes the size of the characters in the four steps.
(9 lines x 20 characters/line), (9 lines x 10 characters/line), (4 lines x 10 characters/line), and (3 lines x 7 characters/line)

A → A → A → A
(9 x 20) (9 x 10) (4 x 10) (3 x 7)

• **Number/Symbol Keys**
Selects numbers (and symbols when pressed together with the shift key).

• **Delete Key**
By pressing this key, the character just before the cursor is deleted and the cursor is returned by one space.

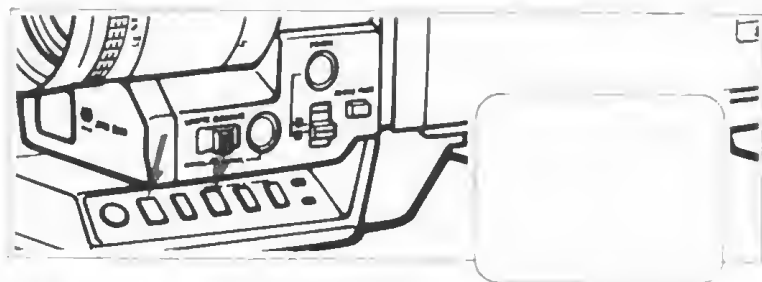


• **Clear Key**
Clears all the titles produced and moves the cursor to the far left position of the first line.

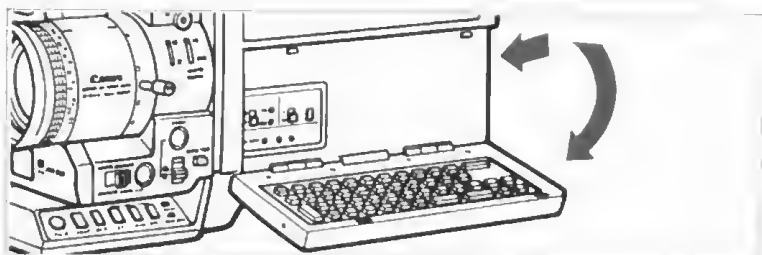
• **Display ON/OFF Button**
This key is used to display titles on the monitor screen or remove titles from the monitor screen.

• **Space Key**
One space is entered each time the key is pressed.

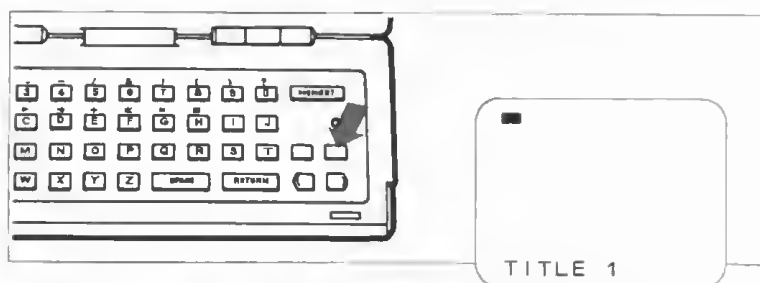
Constructing a Title



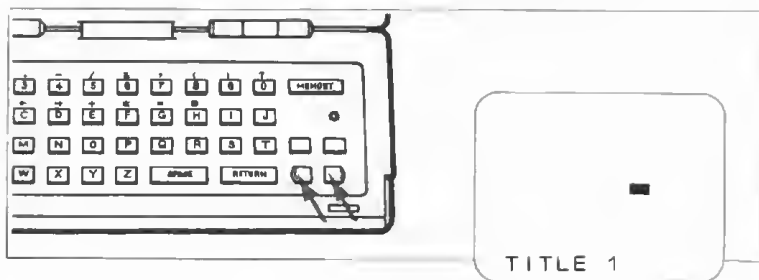
- 1 Set the recorder in the pause mode
- 2 Press the display on/off button or the check button to delete all data displayed in the viewfinder



- 3 Pull out the built-in title keyboard (located on left side of camera) with its slot in the upper right corner. Press the all reset button with a pointed object.
 - For easier viewing when constructing titles in the viewfinder, leave the lens cap on. Also, push the viewfinder lock release, open the eyecup, and position the viewfinder at a convenient angle for comfortable viewing.



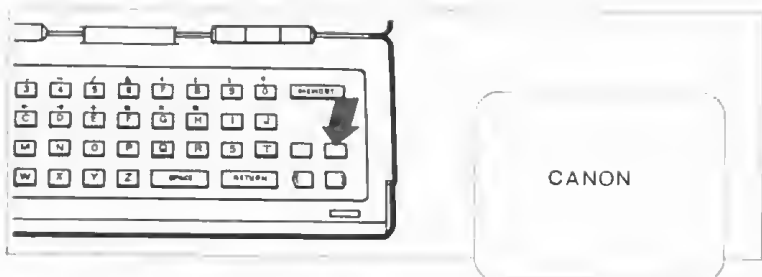
- 4 Press the edit key and a series of cursors will appear in the viewfinder (the first cursor will be blinking). The title page number "TITLE 1" is displayed in the lower left corner. The total number of the title pages is eight. All the titles produced on each page can be stored in the memory. (See p. 29)



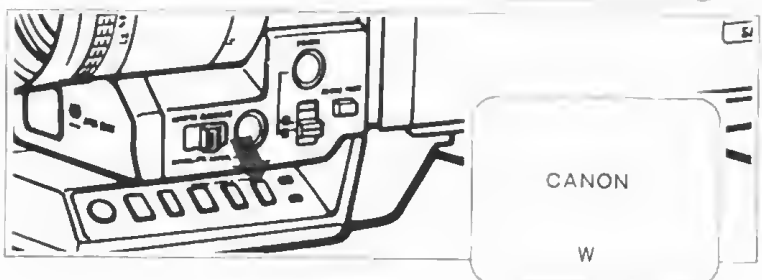
- 5 Press the cursor key(s) to move the cursor to the position where the title is to start. The cursor keys cause the cursor to move one position at a time if pressed once, or to move continuously if held down.



- 6 After determining the title position, use the letter/symbol keys to construct a title. (Refer to the section entitled "Keys and Their Operation and Functions" on p. 27 for preparing a title.)



- 7 Press the edit key again to delete the remaining cursors and the title page number.



- 8 A letter denoting the title color will appear at the bottom of the screen. Press the display color button to select one of four colors: white (W), red (R), green (G), or blue (B). This display disappears when recording begins.

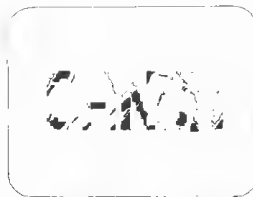
Title Reverse Functions

By pressing the title reverse switch after constructing a title, the background changes to one color and the title becomes the original background colors.* For example, after selecting red for the title and pressing the title reverse switch, the background color will be changed red and the original background will take the shape of the title.

* This function does not apply to white. The background color will be changed into gray

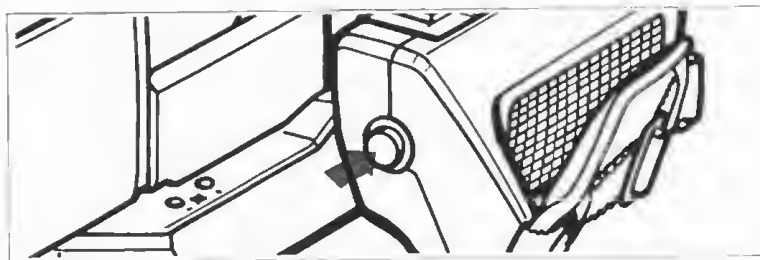


The title is red.



The background becomes red.

The original background takes the shape of the title.

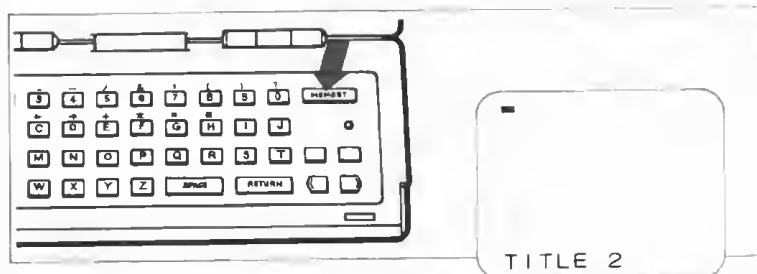


Press the start button to begin recording. Press the display on/off button if you wish to delete the title while recording.

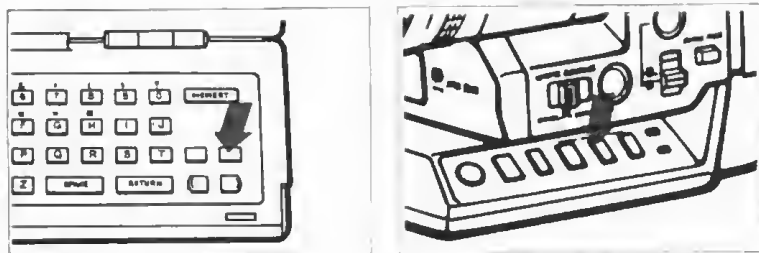
- Checking the title and background colors is not possible with the supplied black-and-white viewfinder. To view the display in color, use a color television or color monitor.

Storing a Title

Titles may be stored in the memory and can be used as often as you wish.



1. Press the memory key to store the title produced on the "TITLE 1" page. The title will disappear and the cursor with the subsequent title page number, "TITLE 2", will be displayed. Prepare the title on "TITLE 2" page and subsequent pages in the same manner as shown on P. 28, steps 5-8.



2. To recall the titles already stored in the memory, press the call button. Then press the edit key to delete the title page number and the cursors.

Notes:

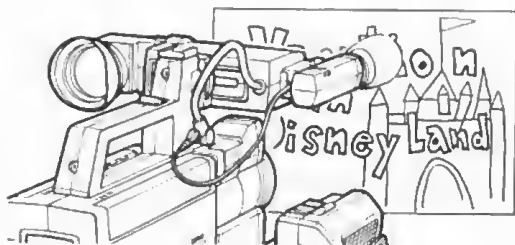
1. The title memory will not function without batteries in the camera grip.
2. By pressing the all reset button, all the titles stored are deleted. Press this button with a pointed object (such as the tip of a ballpoint pen).
3. The service life of fresh batteries is about one year. If the battery charge is reduced, the titles stored may be deleted.

Constructing and Recording External Titles

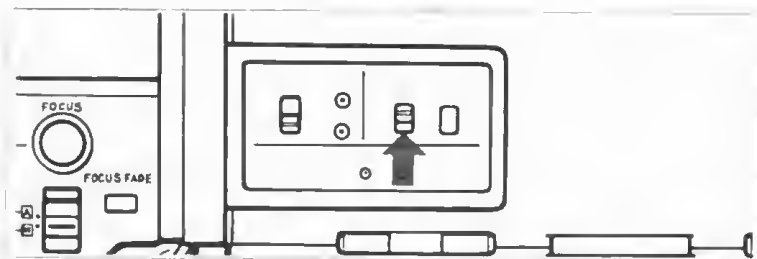
You may construct a title without using the keyboard built in the camera. Recording effects may be enhanced in this case by using the display color button, title reverse switch, or negative/positive reverse switch.



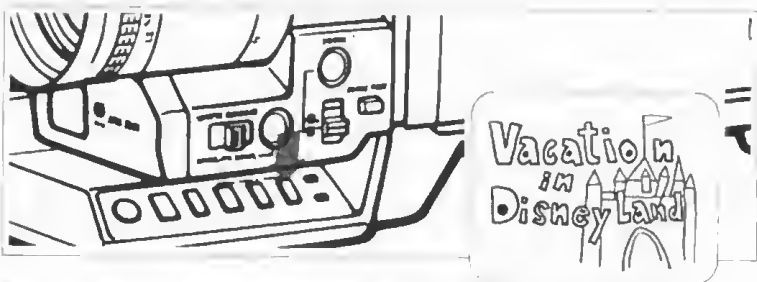
- 1 Draw a title or figure that completely fills a piece of white paper or a white panel.
 - It is recommended to draw titles and figures in black



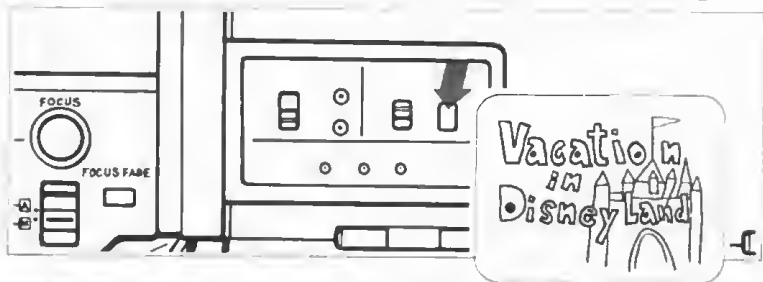
2. Point the camera at the title you have drawn, zoom the lens to frame the title as desired, and focus the lens



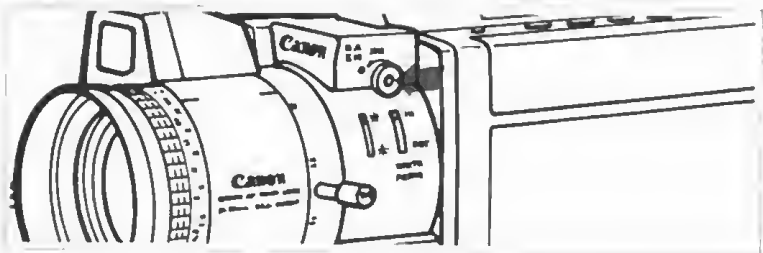
3. Set the external title switch to ON position



- 4 Press the display color button to select a color. Those portions drawn in black will be changed into the color selected; the background will remain white. Press the title reverse switch if you wish to change the color of the title into black and the background into the color selected. You may also use the negative/positive reverse switch.



- It is recommended to record the external title while observing it on a color monitor or color television.



- 5 Should title letters not be displayed clearly, use the iris control knob to adjust the exposure manually. An auxiliary light may be required if illumination is insufficient.

Troubleshooting

If the camera or recorder appears to be operating improperly, go through the checklist below before contacting your dealer or a Canon service center for repair. You may be able to correct the problem on the spot.

Symptom	Check point
■ No picture	● Is the battery pack fully charged? (→P. 12)
	● Is the AC power cord plugged into an AC outlet? (→P. 11)
	● Is the VTR switch of the recorder on? (→P. 10)
	● Is the standby/operate switch set to STD or GAIN UP? (→P. 13)
	● Is the white filter switch set to IN? (→P. 14)
	● Are all cables properly connected? (→P. 10)
	● Is the exposure correct? (→P. 15)
■ Poor color balance	● Is the filter selector correctly set? (→P. 13)
	● Is the white balance properly adjusted? (→P. 13-15)
■ The recorder cannot be operated from the camera.	● Is the monitor or television you are using properly adjusted?
	● Is the recorder control selector set to the CAMERA (remote control) position? (→P. 13)
■ Poor sound recording through the external microphone.	● Is external microphone connected to external jack L? (→P. 37)

Specifications

VIDEO SYSTEM

Camera Tube:	2/3", 5MHz Saticon tube
Television System:	CCIR standard, PAL color signal
Scanning System:	625 lines, 50 fields
Video S/N Ratio:	47 dB or better
Horizontal Resolution:	320 Lines or better at center
Video Output Signal:	1.0V _{p-p} 75 ohms (unbalanced)
Typical Subject Luminance:	900 lux
Minimum Subject Luminance:	10 lux
Color Temperature Correction:	Two-step filter w/ automatic adjustment

LENS SYSTEM

Focal Length:	10-80 mm (8X power zoom)
Aperture:	1:1.4
Minimum Focusing Distance:	1.2 m
Macro Mechanism:	Wide macro Macro recording distance: 4 mm from front of lens Maximum magnification: 1/4
Filter diameter:	58 mm

SOUND SYSTEM

Supplied Microphone:	Uni-directional electret condenser boom microphone
External Microphone Input Level:	-70 dB, 600 ohms unbalanced, 3.5 mm mini-jack
Audio output level:	-20 dB, high impedance

POWER SOURCE

Power Voltage:	12V DC (from recorder)
Power Consumption:	Approx 7.5 W (recording with the monochrome electronic viewfinder) Approx. 2.2W (standby)

OTHER

Electronic Viewfinder:	1-inch monochrome CRT (supplied)
External Dimensions:	409 mm D x 210 mm W x 192 mm H including monochrome electronic viewfinder
Weight:	Camera: 2.1 kg Monochrome Electronic Viewfinder: 0.4 kg Total: 2.5 kg

Subject to change without notice
Errors and omissions excepted.

* Saticon is a registered trademark of NHK (Japan Broadcasting Corp.)

Canon

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Canon Europa N.V.

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Canon UK Ltd. (Camera Dept.)

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London NW10 0JF, United Kingdom

Canon Euro-Photo Handelsgesellschaft m.b.H.

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Bundesrepublik Deutschland

Canon Optics S.A.

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Canon Gesellschaft m.b.H.

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S.A. Geo Wehry & Cie N.V.

Industrielaan 23, B-1740 TERNAT, Belgium

Canon Australia Pty. Ltd.

Unit 1/37 Waterloo Road, North Ryde (Macquarie Park), Sydney

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