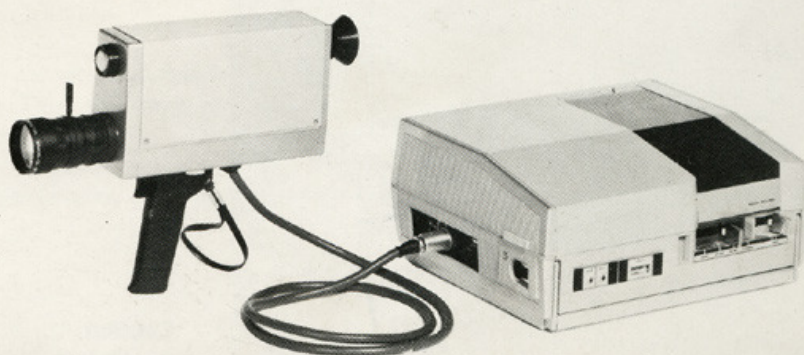


**JVC**  
**NIVICO**

**PORTABLE VIDEO  
CAMERA**

**MODEL**  
**GS-4500**  
**OPERATION MANUAL**







## Operation Manual for Model GS-4500 Portable Video Camera

Model GS-4500 Portable Video Camera is specially designed for use with Model PV-4500 Portable Video Recorder, with particular emphasis on two points — easy handling and stable performance. Use of portable video camera jointly with Model PV-4500 renders an ideal video recording system of greatest mobility.

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**Caution:**  
Avoid recording materials protected by Copyright Law.



# FEATURES

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- 1 Automatic light control (ALC) equipment ensures quality picture with optimum level at all times.
- 2 Extra sensitive microphone mounted on front.
- 3 Miniature electronic viewfinder for perfect pickup.
- 4 Viewfinder also usable for viewing reproduced pictures.
- 5 Zoom lens enables wide-angle and telephoto shooting without changing lens.



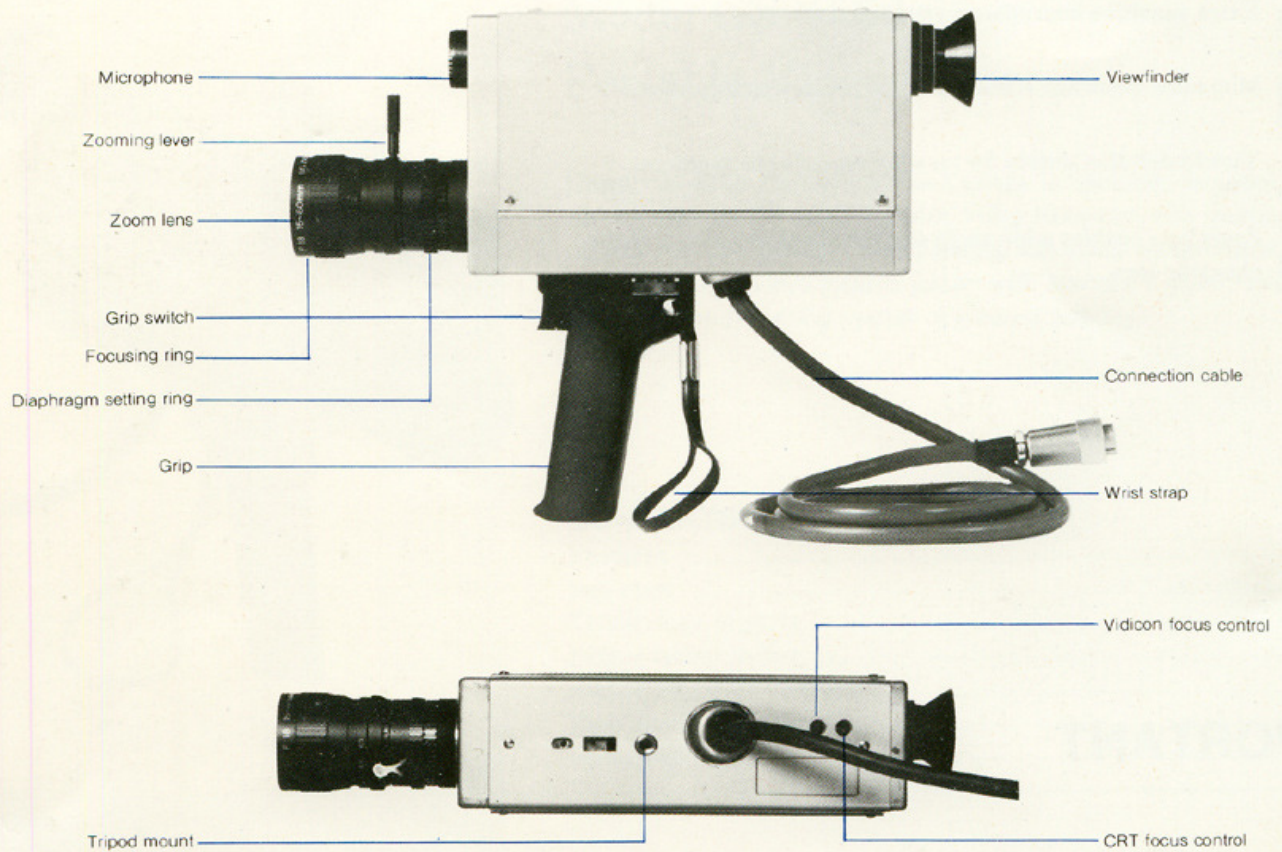
# IMPORTANT

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- 1 Do not expose the camera to direct sunlight, strong beam or to brightly illuminated object for a long time. Such may cause a burn on vidicon tube inside the camera.
- 2 When carrying camera, keep the lens away from the ground. If the camera is subjected to strong shock or vibration when lens is facing down, vidicon tube may be damaged.
- 3 Lens may be blurred when the camera is used at excessive temperature (above 40°C), high-humidity or in a dusty place.
- 4 Keep the camera horizontal while not in use. Do not forget to cover the lens with cap.
- 5 Avoid using the camera near fluorescent lamps, motors and TV receivers. They will have adverse affect on picture quality.
- 6 When resting the camera, set it upside down with the grip facing up.



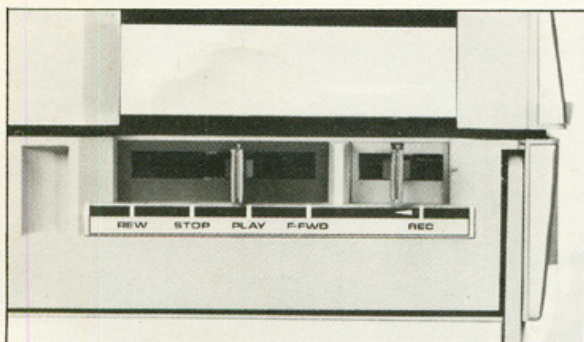
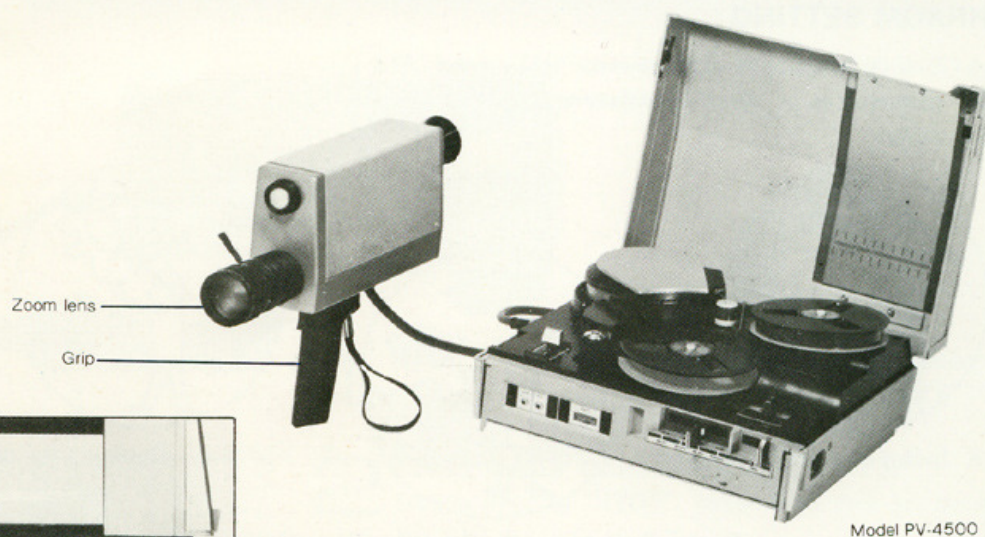
# TERMINOLOGY OF PARTS



Zoom lens .....	F:1.8 <b>12.5-50mm</b> focal distance, four-fold zoom lens
Microphone .....	Omnidirectional electrical capacitor microphone.
Grip switch .....	When switch is pressed, tape on PV-4500 starts to record or playback. Press the switch again to stop tape.
Viewfinder .....	Pictures mirrored in lens can be recorded while monitoring with 1.5" CRT. It is also possible to see pictures reproduced with this viewfinder.
CRT focus control .....	Adjusts viewfinder focus.
Vidicon focus control ...	Adjusts vidicon (camera tube) focus.



# BEFORE TAKING PICTURES



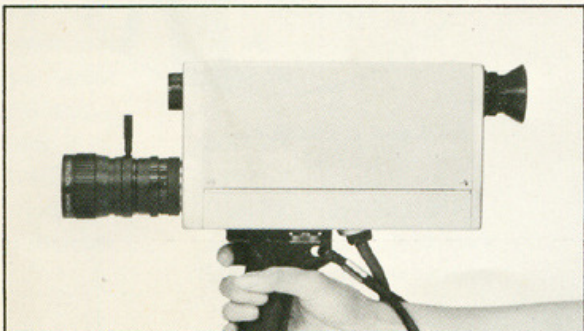
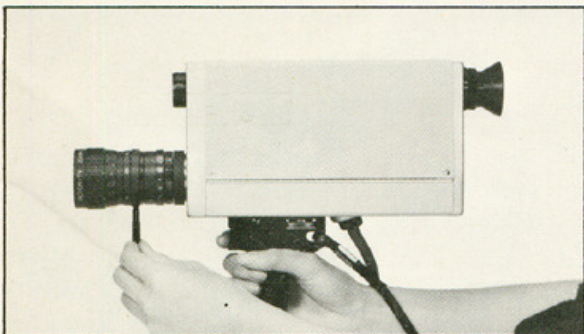
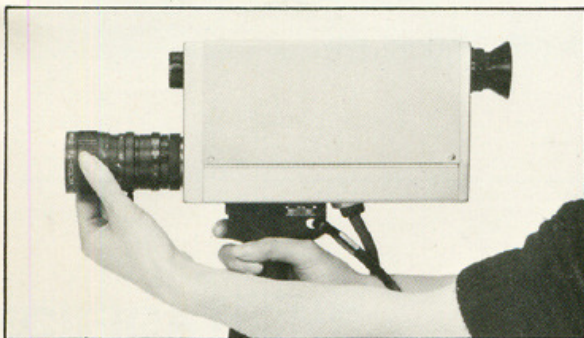
Fix zoom lens and grip to camera body as shown in the photo. Connect the camera to PV-4500 with cable.

**1** Set TV-CAMERA switch of video recorder to "CAMERA". Adjust control and record levers of PV-4500 to "REC".

**2** Adjust focusing ring of the camera for correct focus.

**3** Use zooming lever of the camera for desired picture size.

**4** Hold grip as shown in the photo. Press grip switch, and the PV-4500 starts recording.





# ADVICE FOR BETTER SHOOTING

## DIAPHRAGM SETTING :

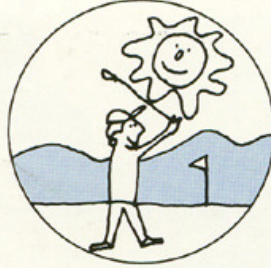
Although GS-4500 is equipped with automatic light control (ALC), still better pictures can be taken by adjusting diaphragm to prevailing conditions.



1 F1.8 Indoor (normal illumination)



2 F5.6 Outdoor (shade or cloudy weather)



3 F11 to 16 Outdoor (fine weather)



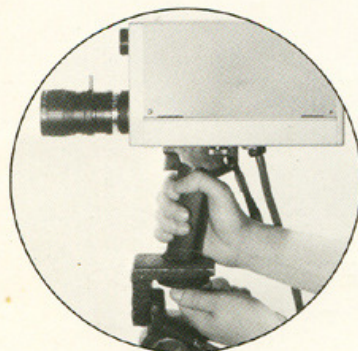
4 F16 Outdoor (beach or mountain)



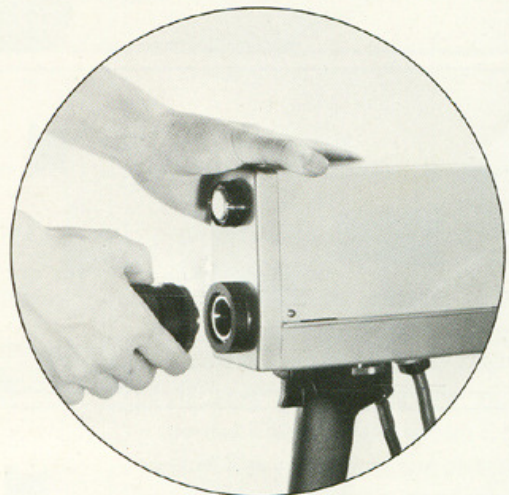
## Zooming

Fourfold zoom lens permits effective zooming from wide-angle to telephoto. Since GS-4500 is a simultaneous recording type, video and audio recording can be made at the same time by pressing switch on the grip.

## SPECIAL EQUIPMENT



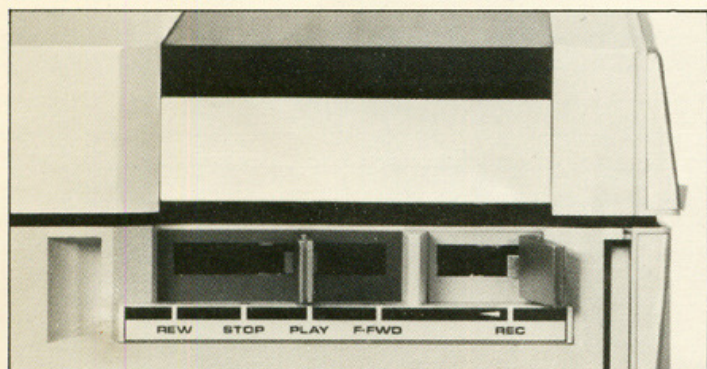
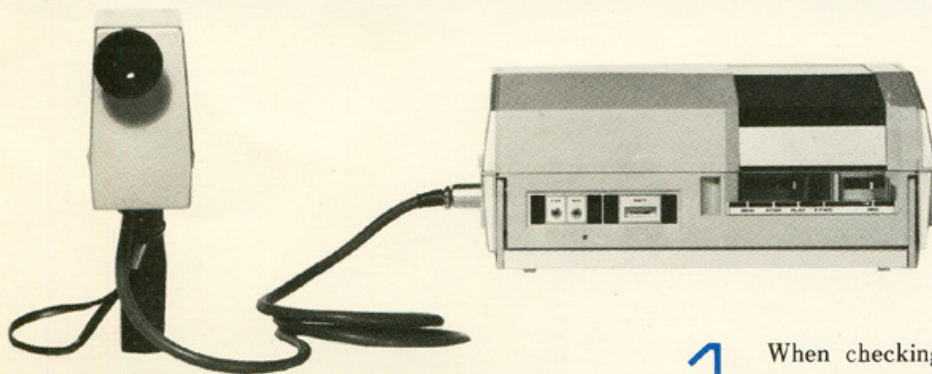
1 Tripod is used to fix the camera.



2. Lens is changed.



# CHECKING REPRODUCED PICTURES



- 1 When checking tape reproduction with viewfinder of the Camera, move control lever from "REC" to "STOP".
- 2 Rewind tape by setting control lever to "REW". Reset control lever to "STOP", pause, and then set the lever to "PLAY".
- 3 When viewfinder becomes bright, press the grip switch. Pictures will then appear on viewfinder screen.
- 4 When desiring to listen to recorded sound while viewing pictures on viewfinder, connect earphone to "EAR" of portable video.

## NOTE :

- ※ To prevent accidental burning of vidicon during playback, cover lens with lens cap or close diaphragm to maximum extent.

# SPECIFICATIONS

Horizontal frequency	: 15.625 kHz
Vertical frequency	: 50 Hz
Scanning system	: 2:1 interlace (IC-used sync signal generator, driven from PV-4500)
Horizontal resolution	: 420 lines
Video signal output	: 1.0 Vp-p composite video signal
Video signal output impedance	: 75 unbalanced
Signal-to-noise ratio	: 43 dB
Audio signal output	: -20 dB
Audio signal output impedance	: 600 $\Omega$
Operating ambient temperature	: 0 to 45°C (32° to 113°F)
Object illumination	: Standard 300 lux or more Still object 100 lux or more

Automatic light control range	: 100 to 100,000 lux
Semiconductors	: 40 transistors, 1 FET, 38 diodes
Camera tube	: Separate mesh vidicon, 2/3", 20PE13
Standard lens	: <b>12.5-50mm</b> , fourfold zoom lens
Lens mount	: 16 mm (C mount)
Power requirement	: 12 V DC
Power consumption	: 7.2 W
Dimensions	: 258(H) × 73 (W) × 360 (D) mm (10-3/16 × 2-7/8 × 14-3/16")
Weight	: 2.2 kg (4.85 lbs)
Accessories	: zoom lens f = 1.8 <b>12.5-50mm</b> Lens cap

Above specifications are subject to change without notice.



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