

# SPECIFICATIONS

Image device.....	1/3" interline transfer PANASONIC CCD
Signal system.....	PAL or NTSC standard
Picture element.....	PAL:752(H)x582(V),NTSC:768(H)x494(V)
Sync. System.....	Internal
Horizontal resolution.....	550 TV lines
Minimum illumination.....	0.5 Lux, F 1.4
S/N ratio.....	Better than 48 dB
AE electronic iris mode.....	1/50(PAL);1/60(NTSC)~1/100,000 second.
Auto iris lens.....	Video/DC drive lens available
Gamma.....	0.45
Back light compensation.....	ON-OFF interchangeable
Video output signal.....	Composite: 1 V p-p, 75 $\Omega$ load
Lens mount.....	C & CS mount acceptable
Operation temperature.....	-10°C~50°C (14°F~122°F)
Power supply.....	DC12V,AC24V,220V,240V (options)
Power consumption.....	4.2W (max),220mA
Dimensions.....	117mm(L)x57mm(W)x57mm(H)

Specifications are subject to change without prior notice.

433-0444

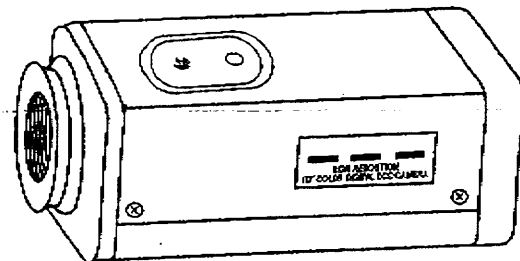
And

433-0456

**1/3" Solid-State CCD**

**High Resolution**

**Color Video Camera**



**Instruction Manual**

## WARNING

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



### CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT REMOVE COVER (OR BACK).  
NO USER-SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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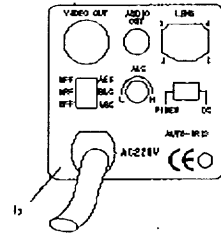
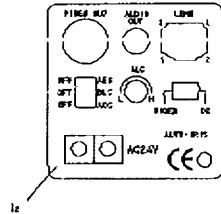
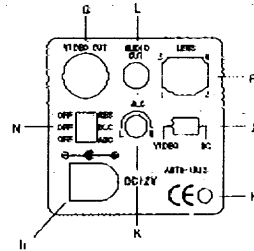
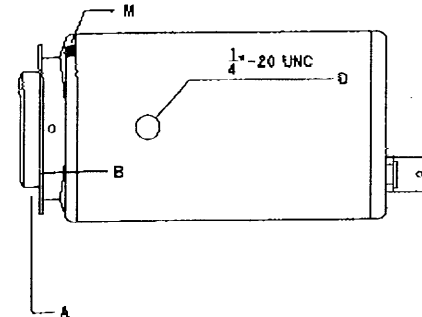
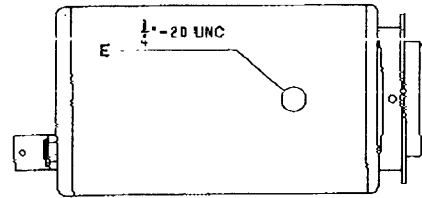
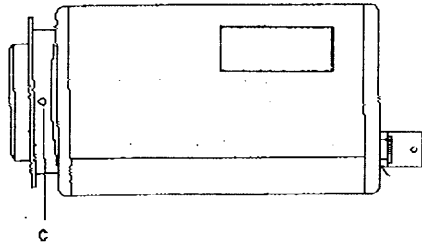
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## DESCRIPTION

The 1/3" color CCD video camera is designed for use in a monitoring system.

- High resolution and high sensitivity with 1/3" PANASONIC CCD sensor and IC.
- Electronic iris adjustment by automatic shutter speed control.
- AGC (Automatic Gain Control).
- Accepts C or CS mount lens.
- Low light, high sensitivity.
- Compact and light-weight.
- Low power consumption.
- Back light compensation.

# PART NAMES



A. C mount lens ring adapter

If a C mount lens is used, add the C mount lens ring adapter.

B. Flange back adjusting ring

If back focus adjustment is required, loosen the flange back locking screw and then back focus can be adjusted by rotating the ring.

C. Flange back locking screw

D. Mounting bracket screw hole (1/4"-20 UNC)(Bottom)

E. Mounting bracket screw hole (1/4"-20 UNC)(Top)

F. Auto iris lens connector (Mini jack)

G. Video output terminal(BNC)

H. Power supply indicator

I. Power input terminal

I<sub>1</sub>:DC+12V,  $\pm$ , DON'T MIS-CONNECT DC12V

I<sub>2</sub>:AC 24V

I<sub>3</sub>:AC 110V,220V,240V,Please see indication on the label

J. Video/DC drive auto iris lens selector

K. For DC-DRIVE lens, DC level adjuster

L. Audio output terminal-for Audio type only (RCA Jack)

M. Micphone-for Audio type only

N. Function control DIP switch

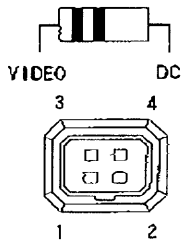
Code	Function
AES	Auto Electronic Shutter ON-OFF
BLC	Back Light Compensation ON-OFF
AGC	Auto Gain Control ON-OFF

## INSTALLING LENS

1. Remove the lens cap from the front of the camera.
2. If using a "C" mount lens, this may be screwed directly into the camera.
3. If using a "CS" mount lens, have to remove a "C" mount lens ring adapter.
4. When using a fixed iris lens, switch the shutter control to AES ON.
5. When using a manual adjustable iris lens, switch the shutter control to AES OFF.
6. When using a Video Servo auto-Iris lens or DC servo auto-iris lens, switch the shutter control to AES OFF.

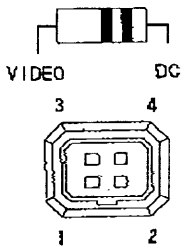
## AUTO IRIS LENS CONNECTION

1. Video servo auto iris lens (with EE amp)  
Set the lens selector to "Video" position.



PIN	DEFINITIONS	LENS CABLE LEADS
1.	DC+12V	RED
2.	VIDEO IRIS	WHITE
3.	NC	
4.	GROUND	BLACK

2. DC servo auto iris lens (without EE amp)  
Set the lens selector to "DC" position.

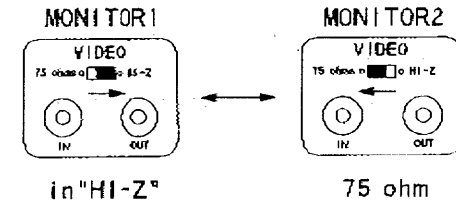


PIN	DEFINITIONS
1.	DAMPING -
2.	DAMPING +
3.	DRIVING +
4.	DRIVING -

① To ensure correct lead connection, please refer to the instruction of lens.

## CONNECTIONS

1. Keep the camera's power "OFF" during installation.
2. Ensure the input voltage is correct for the plug pack you have or else both the camera and the plug pack may be damaged.
3. Terminate the camera output to 75 ohms.  
Use 75 ohm coaxial cable (RG-59/U, RG-6/U, RG-11/U). Always set the last monitor termination switch to 75 ohms, and set the termination switches of intermediate monitors to HIGH (HI-Z).



4. Maximum recommended cable length is shown in Table-1.

Table-1.

Type of Coaxial Cable	RG-59/U (3C-2V)	RG-6/U (5C-2V)	RG-11/U (7C-2V)
Recommended maximum cable length	330 ft. 100 m.	660 ft. 200 m.	825 ft. 250 m.

## TROUBLESHOOTING

Problem	Where to check
- No picture on the monitor	Is the system power on? Is the cable connected properly? Has the lens cap been removed? Is the illumination proper? Is the monitor properly adjusted?
- A picture is not clear	Is the lens mount ring proper? Is the lens clear? Is the lens properly focused? Is the monitor terminated properly?

**Notes:** If dust adheres to the lens, the picture quality will be adversely affected. Wipe the lens lightly with a soft cloth or commercially available lens cleaning paper.