

# Colour Video Camera

## High Resolution



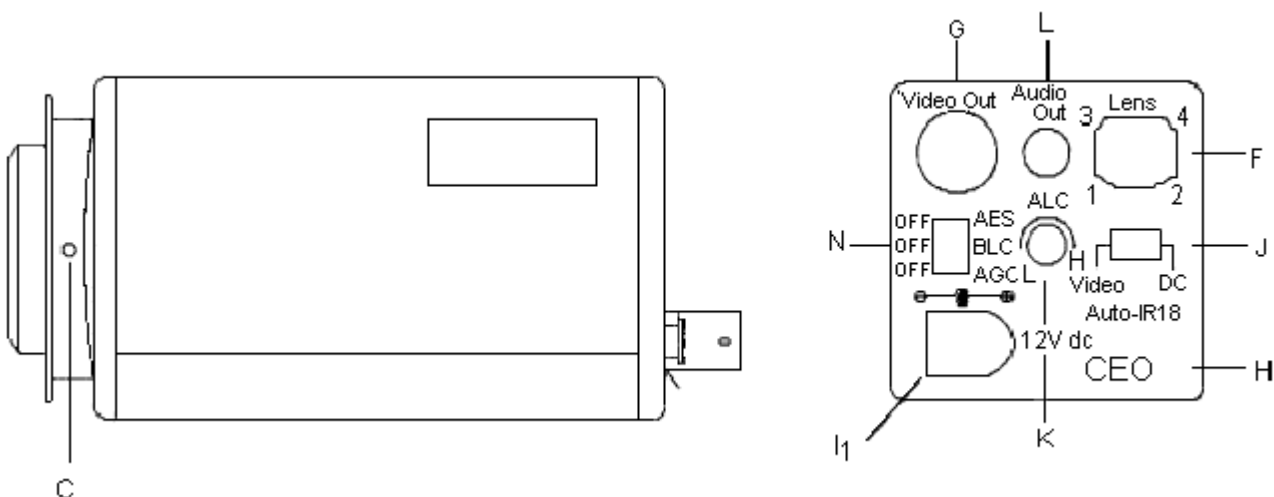
### Features:

- The 1/3-inch colour CCD video camera is designed for use in a monitoring system.
- High resolution and high sensitivity with 1/3 inches 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.
- Not supplied with lens.

### Specifications:

Image device	: 1/3 inches interline transfer panasonic CCD.
Signal system	: PAL or NTSC standard.
Picture element	: PAL : 752 (H) x 582 (V) CCIR : 768 (H) x 494 (V).
Synchronization system	: Internal.
Horizontal resolution	: 550 TV lines.
Minimum illumination	: 0.5 lux at F1.4.
S/N ratio	: Better than 48dB.
AE electronic iris mode	: 1/50 (PAL), 1/60 (NTSC) to 1/100,000 seconds.
Auto iris lens	: Video/DC drive lens.
Gamma	: 0.45.
Back light compensation	: ON-OFF interchange.
Video output signal	: Composite : 1V p-p, 75Ω load.
Lens mount	: C and CS mount acceptable.
Operating temperature	: -10°C to 50°C (14°F to 122°F).
Power supply	: 12V dc, 24V ac, 220V, 240V (options).
Maximum power consumption	: 4.2W, 220mA.
Dimensions	: 117mm (L) x 57mm (W) x 57mm (H).

### Part Names

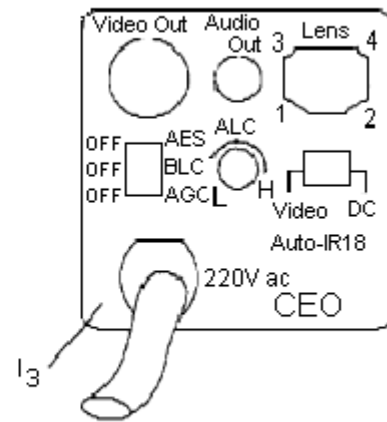
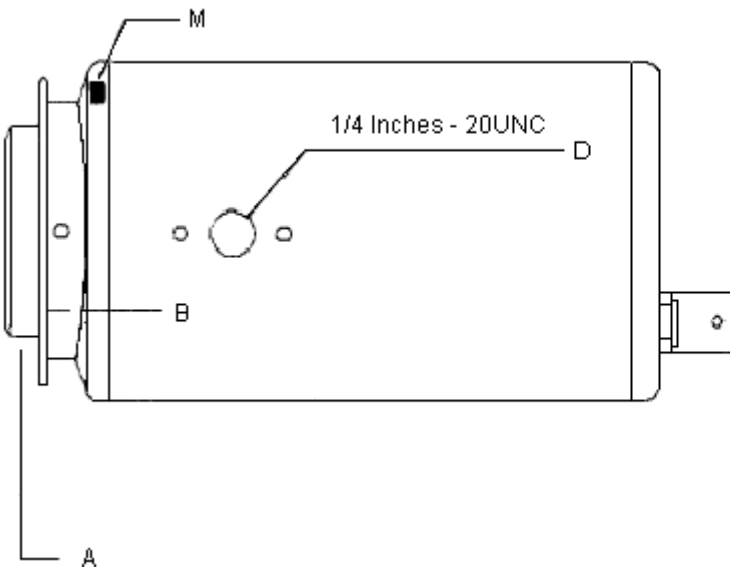
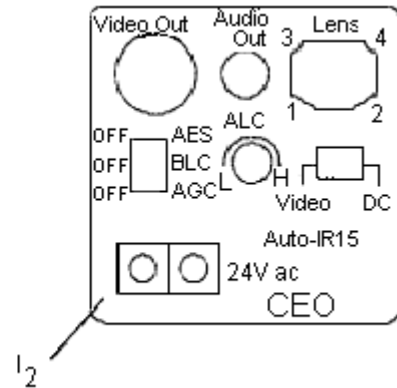
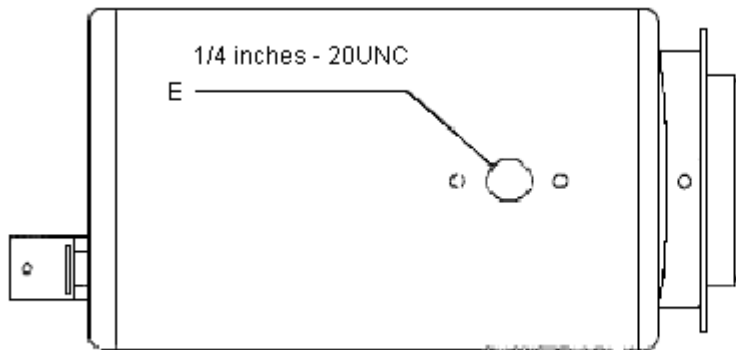


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### Part Names



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 inches - 20UNC) (bottom).

E. Mounting bracket screw hole (1/4 inches - 20UNC) (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> : +12V dc ( $\pm$ , don't mis-connect 12V dc.)

I<sub>2</sub> : 24V ac.

I<sub>3</sub> : 110V ac, 220V ac and 240V ac.

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- 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:

Remove the lens cap from the front of the camera.

If using a "C" mount lens, this may be screwed directly into the camera.

If using a "CS" mount lens, have to remove a "C" mount lens ring adapter.

When using a fixed iris lens, switch the shutter control to AES ON.

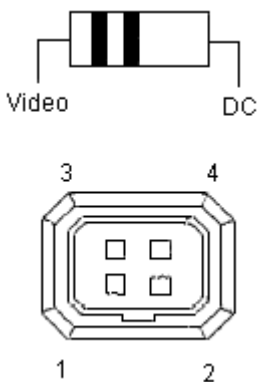
When using a manual adjustable iris lens, switch the shutter control to AES OFF.

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)

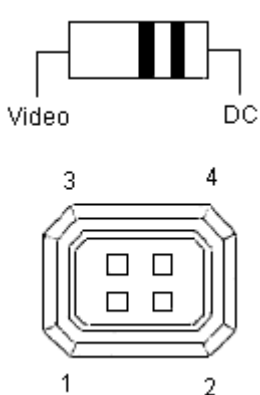
Set the lens selector to "Video" position.



Pin	Definitions	Lens Cable Leads
1	+12V dc	Red
2	Video Iris	White
3	NC	-
4	Ground	Black

2. DC servo auto iris lens (without EE amperes)

Set the lens selector to "DC" position.



Pin	Definitions
1	Damping -
2	Damping +
3	Driving +
4	Driving -



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### Connections:

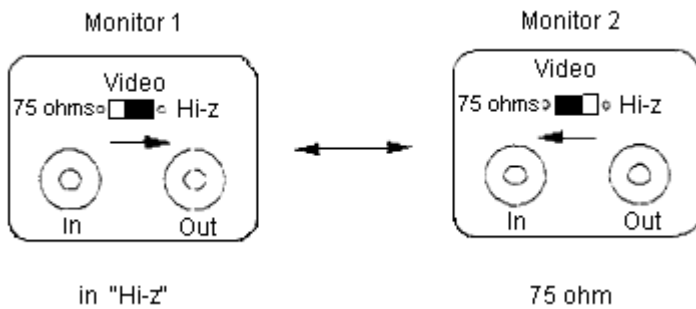
Keep the camera's power "OFF" during installation.

Ensure the input voltage is correct for the plug pack or else both the camera and the plug may be damaged.

Terminate the camera output to 75Ω.

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).



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

### Trouble Shooting

Problem	Where to check
No picture on the monitor	<ul style="list-style-type: none"> <li>Is the system power on?</li> <li>Is the cable connected properly?</li> <li>Has the lens cap been removed?</li> <li>Is the illumination proper?</li> <li>Is the monitor properly adjusted?</li> </ul>
A picture is not clear	<ul style="list-style-type: none"> <li>Is the lens mount ring proper?</li> <li>Is the lens clear?</li> <li>Is the lens properly focused?</li> <li>Is the monitor terminated properly?</li> </ul>

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.

### Part Number Table

Description	Part Number
Camera, 550TVL, AI/DD, 12V	C8706/12
Camera, 550TVL, AI/DD, 240V	C8706/240

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