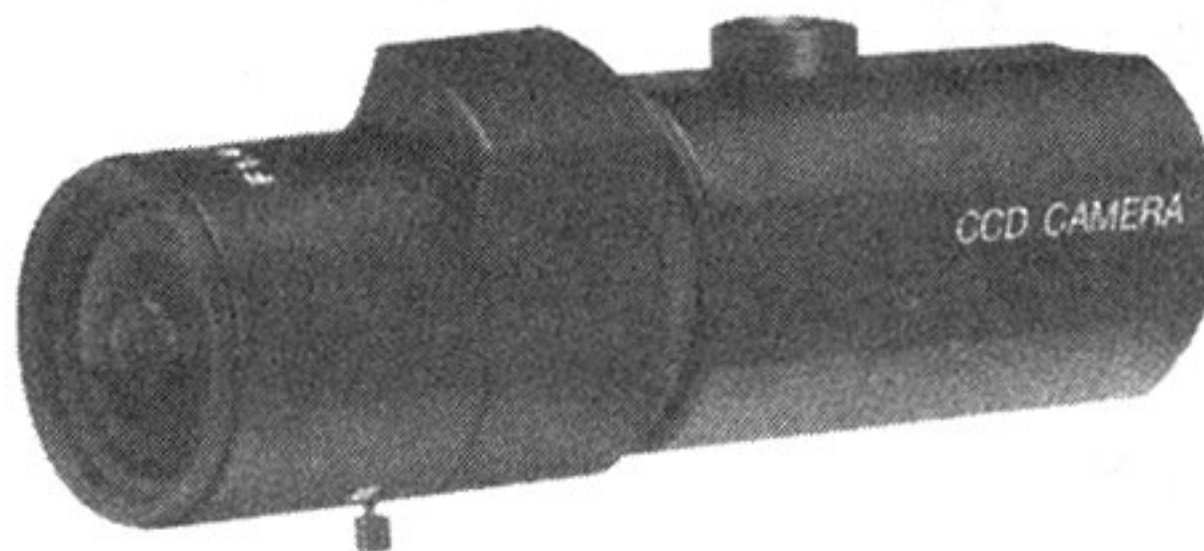
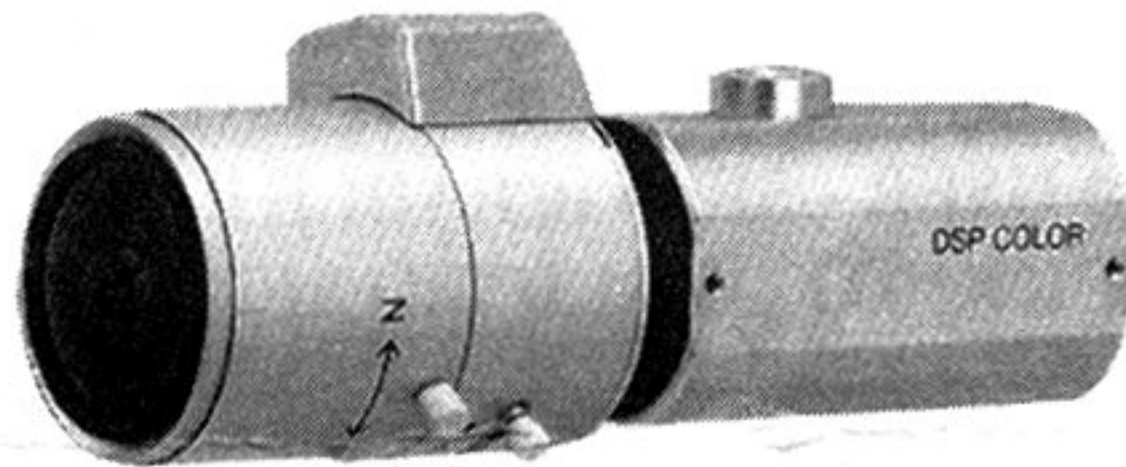


M023-650HQI-001

PROFESSIONAL CCTV CAMERA

Before attempting to connect or operate this products, please read this manual carefully to ensure proper use of the products. Please keep this manual in safe place for future reference.

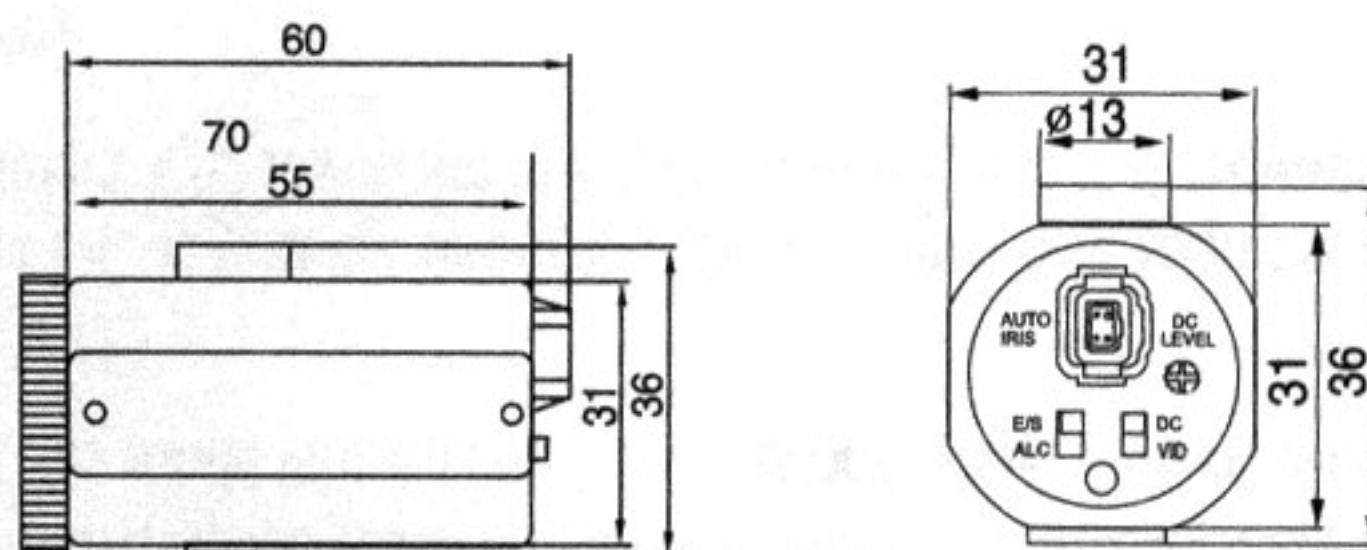
OPERATING INSTRUCTION



MODEL NO. Color HI-RES
Color HI-RES EX-VIEW

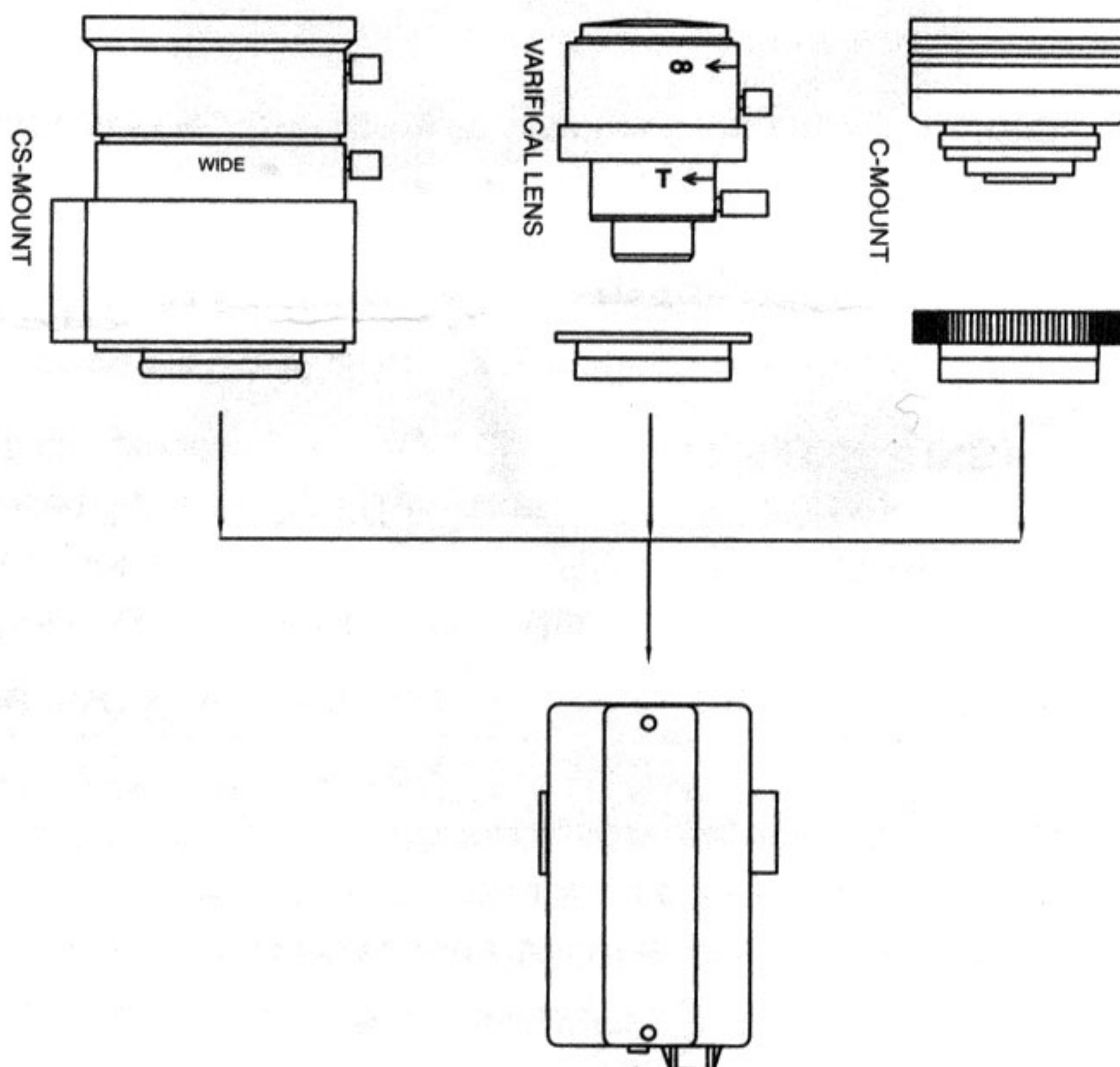
CE

B APPEARANCE

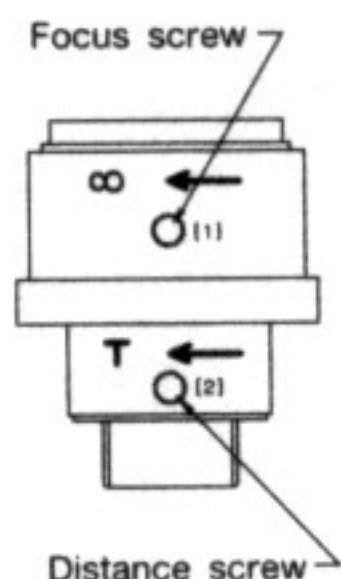


C INSTALLATION

1. Mounting Lens



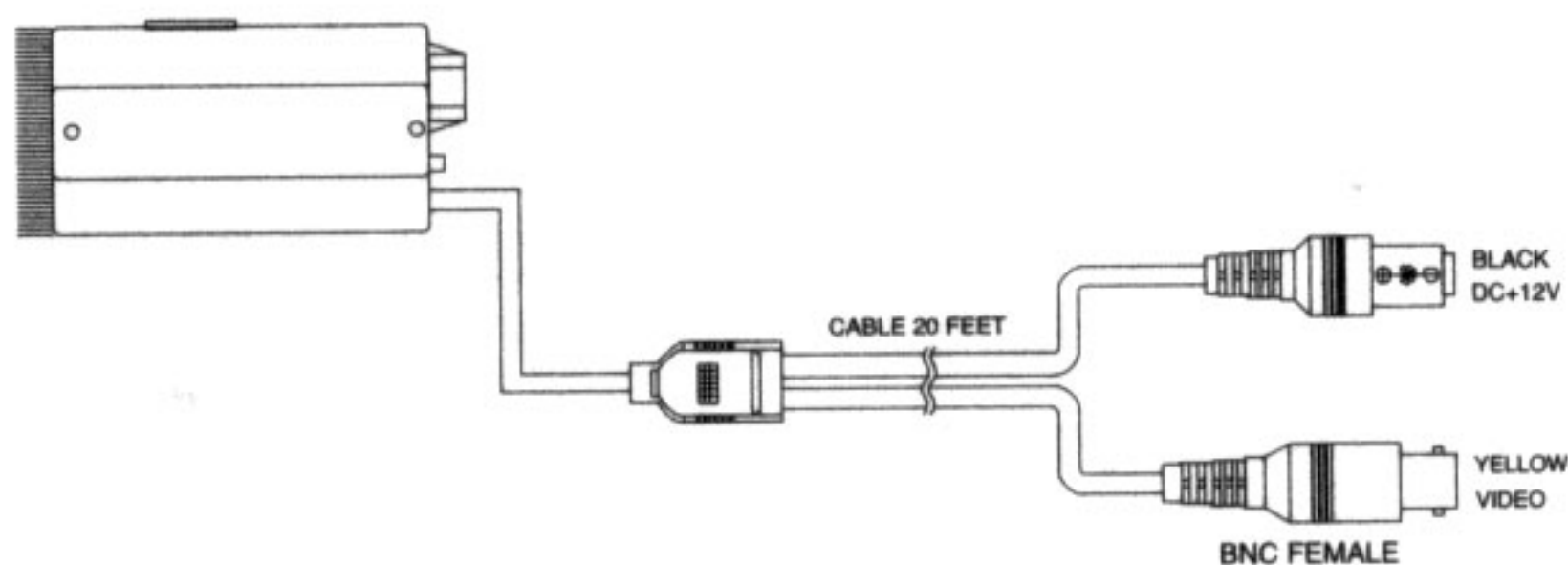
2. View of angle and focus adjustment for built in varifocal lens.



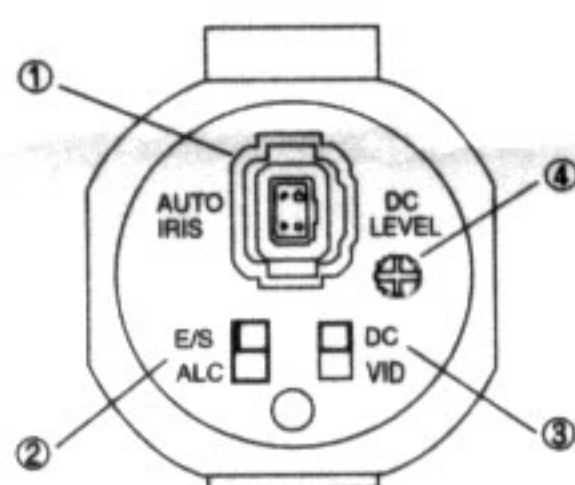
CLASS	W(wide)	T(Tele)
Horizontal	89.2°	44.2°
Vertical	65.5°	33.4°

★ Please adjust focus & distance with the screws on the varifocal lens

3. Cable Connection

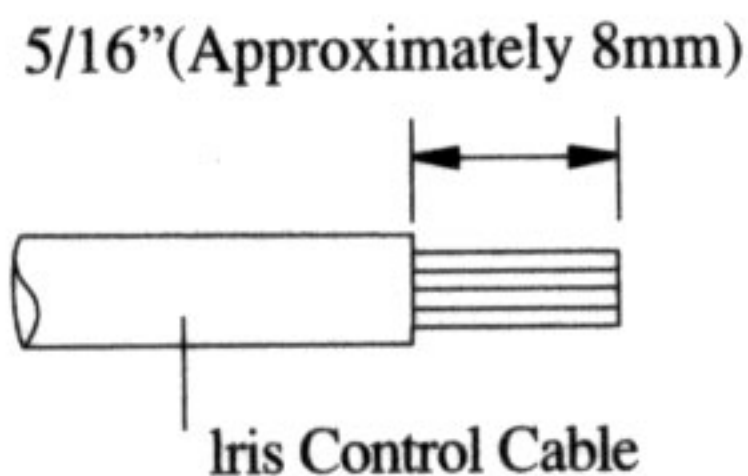
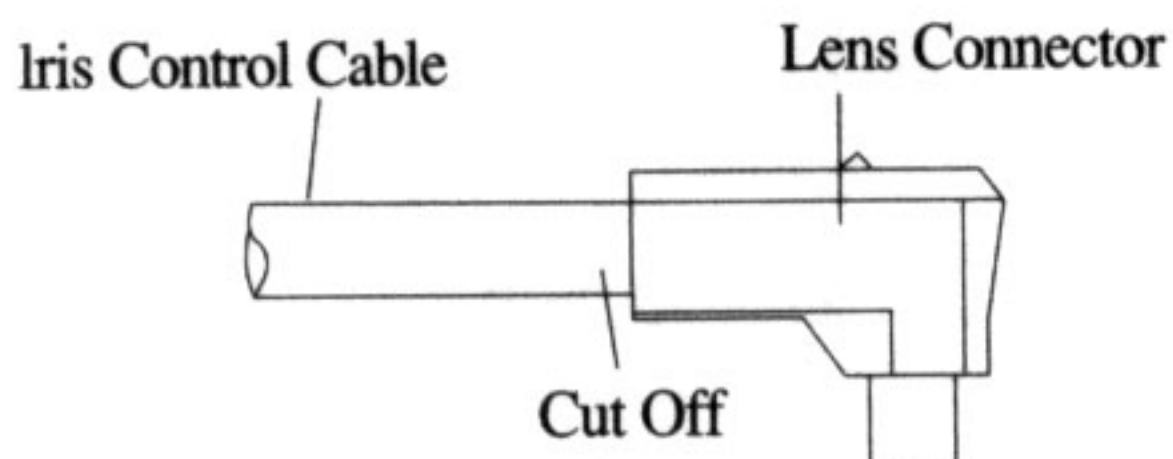


4. Operating Controls and Functions



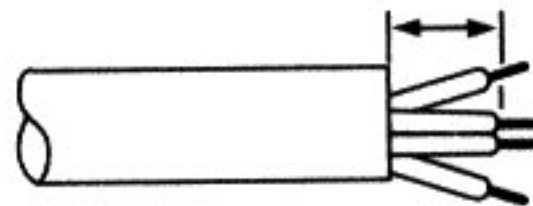
① HOW TO INSTALL THE AUTO-IRIS LENS CONNECTOR

- ②. Cut off the iris control cable at the edge of lens connector and then cut off the outer cable cover as shown in the diagram.



- ③. Cut off inner cable covers of the iris control cable as shown in the diagram.

1/4" (Approximately 6mm)



- ④. Put the heat shrinkable tubes or equivalent tubes on the inner cables of the iris control cable.
 ⑤. Solder the inner cables of the iris control cable at the pin-plug block according to the following pin assignment and cover the heat shrinkable tubes or equivalent tubes over the soldered area and heat on the tubes to shrink them.

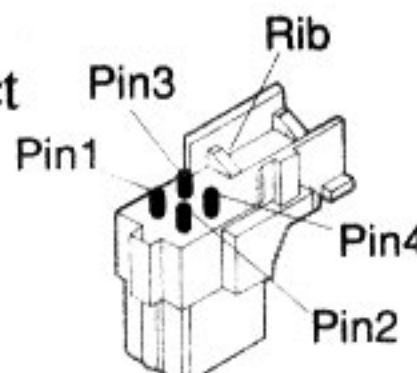
Signal for Video-iris lens

Pin 1: Power source: +9V DC, 50mA Max.
 Pin 2: N.C (Not used)
 Pin 3: Video Signal: 0.7Vp-p/10K ohms.
 Pin 4: Shield, ground

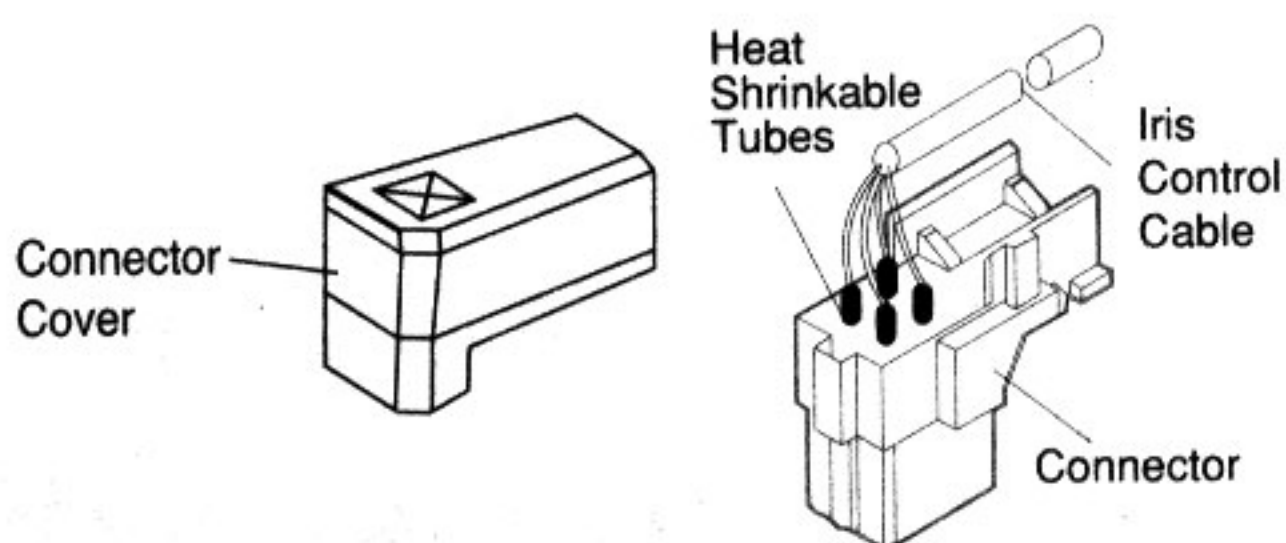
Signal for DC-iris lens

Pin 1: DAMP-
 Pin 2: DAMP+
 Pin 3: DRV+
 Pin 4: DRV-(GND)

When Auto-iris lens is used, please select E/S, BLC, ALC switch to ALC position



- ⑥. Both the connector cover and connector should be properly interlocked.



Automatic Iris Lens

Note: Cut off the rib on the connector. When the iris control cable is too thick, connector cover and connector can not be interlocked.

② Automatic Light Control/Electronic Light Control Selector (ALC, E/S)

Let you select the mode according to the lens type used.

ALC: Select this mode when an auto iris lens (ALC lens) is used with this camera.

E/S: Select this mode when a fixed iris lens or manual iris lens is used with this camera.

③ DC or V/D

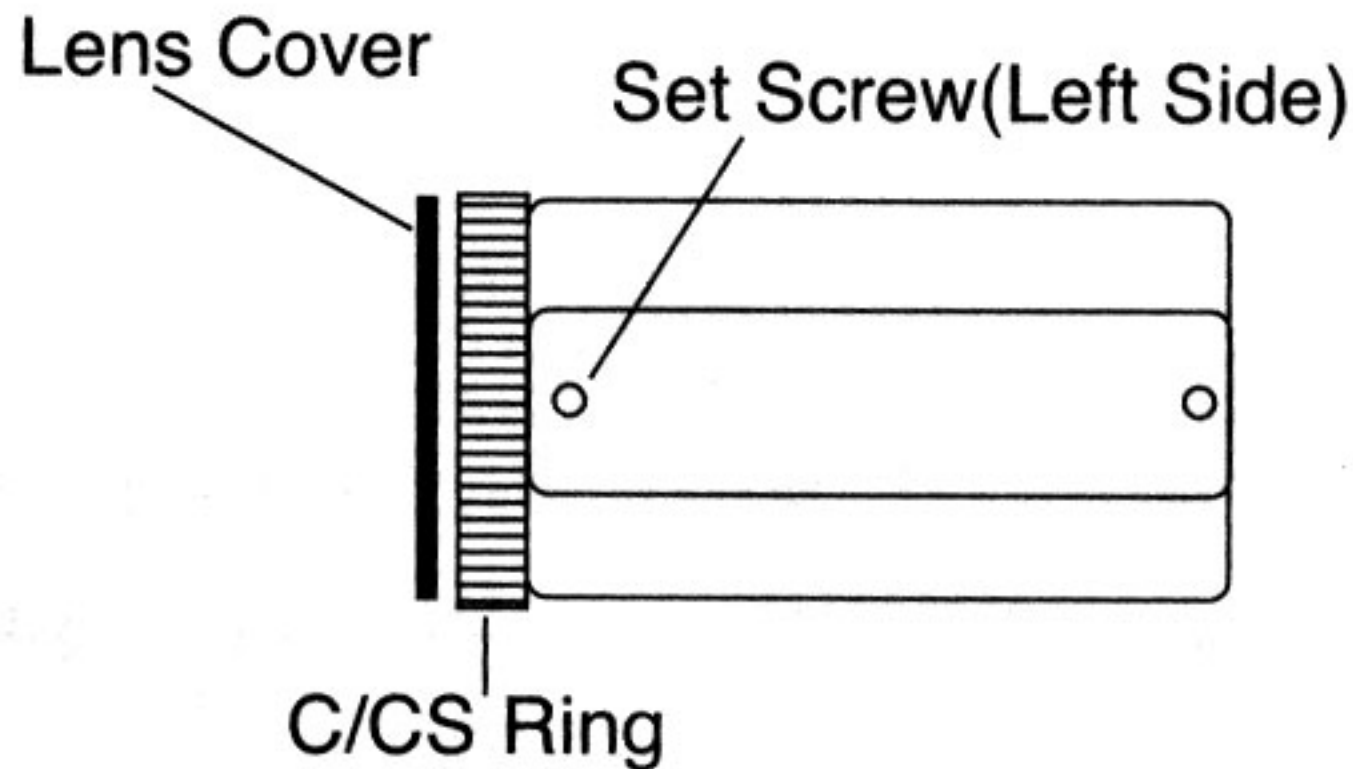
DC: Select DC if you are using the auto iris lens that requires a DC drive signal.

VIDEO: Select V/D if you are using the auto iris lens that requires a video drive signal.

④ DC Level

DC Auto Iris lens level adjustment.

5. Back Focus Procedure



Step 1 - Remove Lens Cover

Step 2 - If using a C-Mount lenses it can be applied to the camera at this time

Step 3 - Most current lenses are CS-Mount and require removal of the C/CS ring

Step 4 - To remove the C/CS ring loosen but do not remove completely the two set screws and then remove the C/CS ring.

Step 5 - Screw on the CS-Mount lens until a good picture is obtained and tighten the set screws.

Step 6 - Use the focus ring on the lens to obtain a finer focusing.

Note - If a C-Mount lens was applied and focus could not be obtained, please try the following:

- Ensure that the lens is in fact a C-Mount and not a CS-Mount
- Check the focus adjust on the lens
- If need be loosen the set screws and adjust the position of the lens and C/CS ring as one unit until a good focus is obtained.

D SPECIFICATION

Model Name	Color HIGH-RES	Color HIGH-RES EX	Color HIGH-RES	Color HIGH-RES EX
Signal Format	NTSC		PAL	
Image Sensor	Color Sony Hi Res 1/3" Super HAD CCD	Color Sony Hi Res 1/3" EX view HAD CCD	Color Sony Hi Res 1/3" Super HAD CCD	Color Sony Hi Res 1/3" EX view HAD CCD
Scanning System	2:1 Interlace			
Scanning Frequency	H:15.734[KHz],V:59.94[Hz]		H:15.625[KHz], V:50 [Hz]	
Total Pixels	811(H) × 508(V) 410K		795(H) × 596(V) 470K	
Effective Pixels	768(H) × 494(V) 380K		752(H) × 582(V) 440K	
Horizontal Resolution	520 TV lines			
Electronic Shutter	1/60-1/100,000[sec]automatic		1/50-1/100,000[sec]automatic	
S/N Ratio	More than 45dB (AGC OFF)			
Sensitivity	Super HAD	0.5Lux@F2.0 (30 IRE)		
	Ex View HAD	0.05Lux@Faceplate		
Gamma	$\gamma=0.45$			
Sync System	Internal			
Video Output	Composite 1 [Vp-p] 75 [Ω] unbalanced			
Power Supply	DC 12V ($\pm 10\%$)			
Operating Temperature	-10℃ ~ +40℃			
Storage Temperature	-30℃ ~ +70℃			
Operating Humidity	10% ~ 80%			
Dimensions	31mm(W) × 31mm(H) × 55mm(L)			