

HTC-65GNV HIGH RESOLUTION HTC-65CNV MED. RESOLUTION

DAY&NIGHT CCD CAMERA

SPECIFICATOINS

ITEM NO.	HTC-65C	HTC-65G
PICK UP DEVICE	CCD IMAGE SENSOR 1/3"	
ELEMENTS H*V	NTSC: 512*492—PAL: 512*582	NTSC: 771*492—PAL: 753*582
HORIZONTAL RESOLUTION	More than 400 TV Lines	More than 540 TV Lines
SYNCHRO FREQUENCY	NTSC: 15.734 kHz – PAL: 15.625 kHz	
CLOCK FREQUENCY	NTSC: 59.94Hz – PAL: 50Hz	
SCANNING SYSTEM	2 : 1 INTERLANCE	
SENSITIVITY D/N	1/0.05 Lux F=1.2	2/ 0.08 Lux F=1.2
SYNCHRONIZATION	LINE LOCK	
S/N RATIO	MORE THAN 50 dB (AGC Auto)	
VIDEO OUTPUT	1 Vpp, 75 Ohms Composite	
AUTO IRIS	Video Driver / DC Driver Switchable	
MOUNT LENS	CS Mount	
POWER SUPPLY	24 VAC or 12VDC (± 10%)	
POWER CONSUMPTION	3.5W for 24VAC	4W for 24VAC
AES(ELECTRONIC SHUTTER)	Up to 1/100,000 sec. (linear) ON/OFF Switchable	
D/N (day & night)	Normal image, Day & night ON/OFF Switchable	
IR RAY (acceptable)	850 ~ 940nm INFREDRAD WAVE LENGTH	
DIMENSIONS (mm)	102 (D) * 59 (W) * 59 (H)	
WEIGHT (g)	430	
STORAGE TEMPERATURE	-30 to + 60 Degree C	
OPERATON TEMPERATURE	-10 to + 45 Degree C	

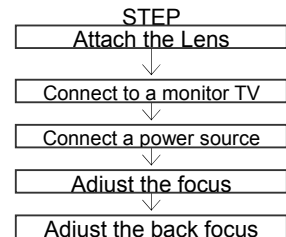
*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

CAUTIONS

1. In order to protect the camera, avoid placing or using it under direct sunlight, rain or dust.
2. Don't touch the CCD sensor directly with your fingers. If necessary, use soft cloth moistened with alcohol to wipe off the dust.
3. When the camera is not in use, keep the lens, or cap being attached to protect the CCD sensor.
4. DC model: use a + 12V regulated power source.
AC model: directly connect to AC power source.
5. Don't drop your camera or give it a strong shock or vibration.

CONNECTION

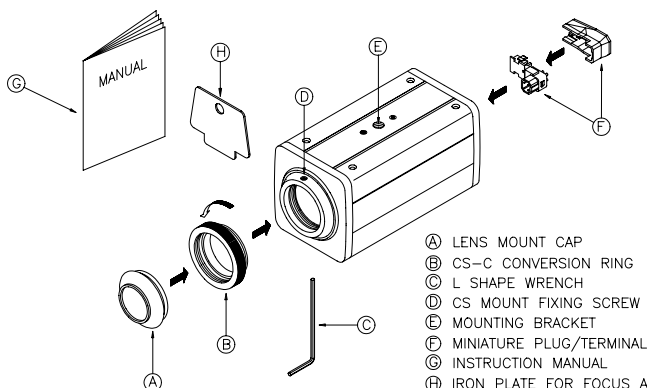
1. Before connection, make sure that power of all units are OFF and cords are unplugged.
2. Mount a lens onto the camera.
3. Connect a video terminal of the camera and the video input terminal of a monitor TV with a 75 Ω coaxial cable.
4. Connect the power terminal of the camera to a power supply.



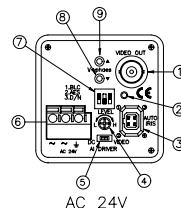
Caution:

- * Installation should conform to all local codes.
- * Lens, coaxial cable for video signal and power supply are not supplied with the camera.

LOCATIONS, FUNCTION OF PARTS & ACCESSORIES



- Ⓐ LENS MOUNT CAP
- Ⓑ CS-C CONVERSION RING
- Ⓒ L SHAPE WRENCH
- Ⓓ CS MOUNT FIXING SCREW
- Ⓔ MOUNTING BRACKET
- Ⓕ MINIATURE PLUG/TERMINAL
- Ⓖ INSTRUCTION MANUAL
- Ⓗ IRON PLATE FOR FOCUS ADJUSTED



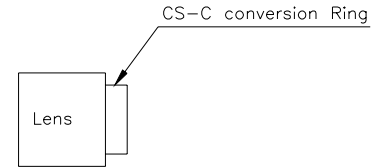
- ① VIDEO OUT BNC(F) JACK
- ② POWER INDICATOR LED
- ③ 4 PIN-SOCKET FOR AUTO IRIS OR DC DRIVER LENS
- ④ DC DRIVER LEVEL
- ⑤ DC/VIDEO DRIVER SWITCH
- ⑥ POWER SUPPLY
- ⑦ DIP SWITCH
- ⑧ V-phase DOWN PUSH BOTTON
- ⑨ V-phase UP PUSH BOTTON

OPERATIONS AND ADJUSTMENTS

1. Connect the power cord and turn the power ON.
2. Adjust the iris and focus of the lens to obtain the optimum image.

* Using normal lenses

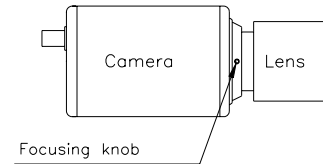
CS-mount lens mode is the standard type. When use C-mount lens, Please use the CS-C conversion Ring.



* Using the zoom lens (adjustment of the back focus)

The camera is set at the standard back focus position when shipped from factory. Depending on types of zoom lenses, however slight adjustment may be necessary. Adjust the lens back-focus by turning the focusing knob in either direction.

- (1) Place an object at any fixed distance and set the focus ring of the zoom lens to be used with.
- (2) Set the zoom lens to fully TELE position and obtain the best focus position by turning the focus ring of the zoom.
- (3) Then set the zoom lens to fully WIDE position and obtain the best focus position by turning the focusing knob.
- (4) Repeat the procedures 2 and 3 until focus remains in constant among the zoom range.

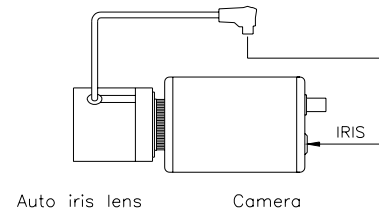


* Using an auto iris lens

NOTE: Don't use both SHUTTER ON & AUTO IRIS lens at the same time.

(DC driver lens)

When auto iris lens is used, set AI DRIVER switch to DC position and connect the plug of the lens (for iris terminal) to the IRIS terminal on the back of camera.

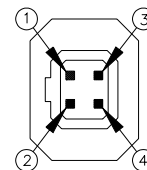


DC Drive Level

When you use an DC Driver Lens you can adjust the DC Drive Level for the bright of video output.

(Video Driver lens)

When auto iris is used, AI DRIVER switch to VIDEO position and to connect the plug of the lens (for iris terminal) to the IRIS terminal on the back of the camera.



DC		VIDEO	
1. DAMP (-)		1. DC 12V	
2. DAMP (+)		2. NC	
3. DRIVER (+)		3. IRIS SIGNAL	
4. DRIVER (-)		4. GND	

Dip Switch

1. BLC (BACK LIGHT COMPENSATION)

As you take a picture with strong light behind the subject, the picture would be looked very dim on the subject. In this case, you should select BLC ON to get a clear image.

NOTE: When you select BLC ON than the SHUTTER should be in ON position or use Auto Iris Lens.

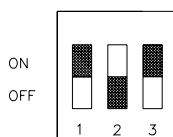
2. AES

By setting the AES switch to ON, the AES mode (Up to 1/100,000) sec) is available.

For shooting fast-moving objects or high brightness environment, the various electronic shutter speed can change automatically.

3. D/N

By setting the switch to ON, the image is normal situation. If you choose switch to OFF, color image would change to black and white automatically under low light condition.



SWITCH (ON)	ON	OFF	USAGE
1. BLC	YES	NO	BACK LIGHT COMPENSATION
2. AES	YES	NO	WHEN NOT USE THE IRIS LENS
3. D/N	NORMAL	DAY & NIGHT	COLOR IMAGE WOULD CHANGE TO B/W IMAGE UNDER LOW LIGHT CONDITION.

LINE LOCK

When two or more cameras are switched by the video switcher, quad or multiplexer for monitoring on a TV monitor. The picture may fluctuate due to different AC line phase of each camera, In this case, please select the Line Lock function.