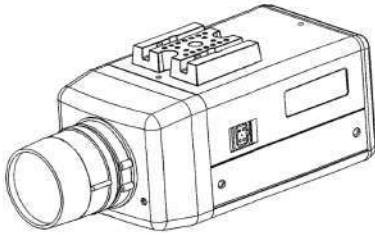


SG37CH-1PE

1/3" COLOR CCD CAMERA



FEATURES

1. Lead (Pb) Free RoHS Compliance
2. Digital Signal Processor: SONY HQ1
3. Long life and high reliability are achieved by the use of a CCD image device. This makes the camera 100 per cent solid state. No longer is an image tube needed.
4. Ease of use in any application is achieved through the small size.
5. Lower power consumption.
6. Relatively no interference from magnetic or electrostatic field.
7. Accepts all popular CCTV lenses.
8. ME/AES shutter control modes fit to most indoor and outdoor applications.

CAUTION

1. **Never point the camera toward the sun**
Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.
2. **Handle this camera with care**
Avoid any shock or bumping of the camera. Improper handling could damage the camera.
3. **Requires a proper operating environment**
This camera is designed for indoor use. The allowable temperature range for operation is between -10°C~50°C and the allowable humidity is 85% maximum. If the camera is to be placed outdoors, a special weatherproof housing, which has heaters and cooling device included, should be used.
4. **Clean the front face to the pick-up device**
It is recommended that the pick-up device surface be cleaned before lens installation or whenever the lens is changed. Cleaning should be done by using a chamois, a very fine soft cloth, lens tissue or cotton tipped applicator and ethanol to carefully remove any fingerprints or dust.
5. **Check the power source voltage**
The power source voltage should be within the specified range. (Camera must meet the specification)
6. **Object and liquid entry**
Never push objects of any kind into this may touch dangerous voltage points of short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.
7. **Servicing**
Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

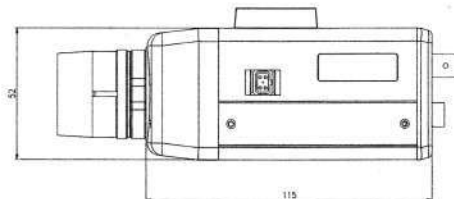
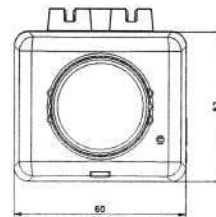
8. Damage requiring service

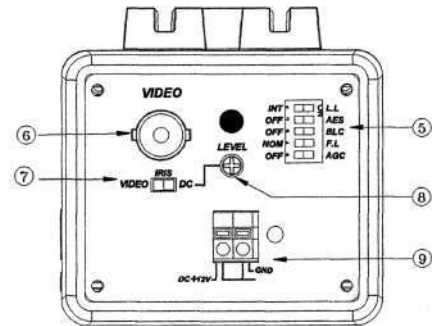
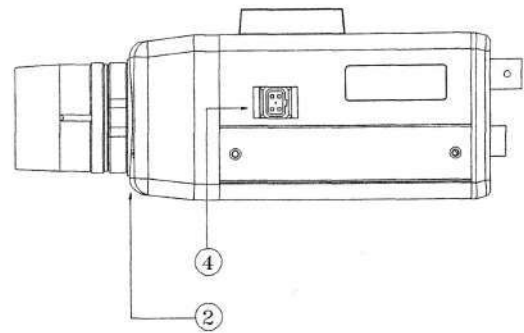
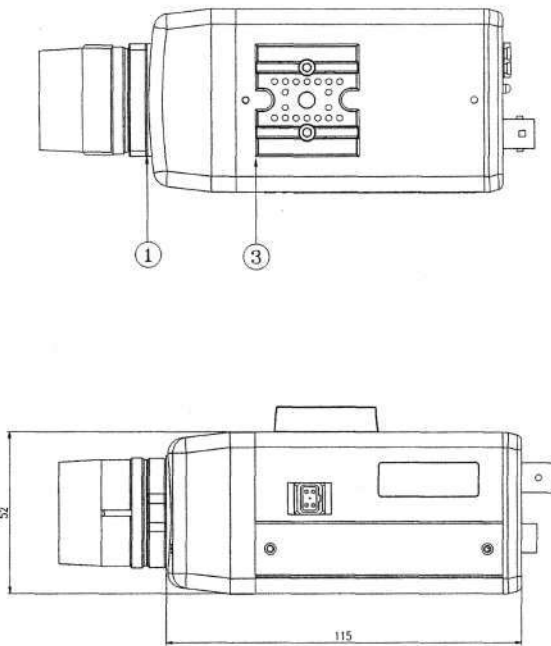
- Unplug this video product from the wall outlet and refer service to qualified servicing personnel under the following conditions:
- a. When the power-supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the video product
 - c. If the video product has been exposed to rain or water.
 - d. If the video product has been dropped or the cabinet has been damaged.
 - e. When the video product exhibits a distinct change in performance.

SPECIFICATION

TV System	PAL	NTSC
Image Sensor	1/3" SONY Super HAD CCD	
DSP	SONY HQ1	
Number of Total Pixels	795(H) x 596(V)	811(H) x 508(V)
Synchronizing System	Internal	
Resolution	540TVL	
Minimum Illumination	0.15 @F1.0	
Electronic Shutter Speed Modes	AES ON, AES OFF, 1/50(60) sec.	
Back Light Compensation	ON/OFF	
Automatic Gain Control	ON/OFF	
Auto White Balance	AWB	
Signal to Noise Ratio	More than 50dB (AGC OFF)	
Auto Iris Control	Video / DC	
Video Output	1Vp-p Composite	
Power Supply	12Vdc	
Power Consumption	3.0W	
Operation Temperature	-10°C~50°C	
Operation Humidity	RH85% or less	
Storage Temperature	-20°C~60°C	
Dimensions	60(W)x52(H)x115(L)mm	
Weight	400g	

DIMENSIONS (Unit : mm)



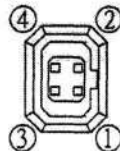


DC12V

NOMENCLATURE AND FUNCTION

- ① **Lens mount**
This mount is used to install a CS-mount lens.
CS-adaptor ring is required if using a C mount lens.
- ② **CS Mount Fixing Screw**
Screw for fixing mount and adjusting back focus if needed.
- ③ **Mount adaptor**
This adaptor can be attached to either the top or bottom of unit.
- ④ **Auto iris lens connector (4-pin type)**
The lens connector supplies the auto-iris lens (not supplied) with DC power and a video signal or DC control signal.

PIN NO.	VIDEO	DC
1	DC + 12V	CONTROL -
2	NC	CONTROL +
3	VIDEO SIG	DRIVE +
4	GND	DRIVE -



- ⑤ **Control Switch**
SW1. SYNC MODE: SYNC Mode Selection INT/L.L. switch.
SW2. AES: Automatic Electronic Shutter OFF/AES switch.
SW3. BLC: Backlight compensation OFF / BLC switch
SW4. FLC: Flickerless NORM / FLC switch
SW5. AGC: Automatic Gain Control AGC / S.AGC switch
- ⑥ **VIDEO connector**
This is an output for connecting to a video monitor, etc (75Ω).
- ⑦ **Auto Iris mode selection switch**
For switching the output from the auto-iris connector (5). Shutter speed is fixed at 1/50 sec. when switch is set to DC or VIDEO position.
DC: To be set when using a non-amp auto-iris lens.
AES: To be set when using AES (Auto Electronic Shutter).
Video: To be set when using an auto-iris lens with build-in amp.
- ⑧ **DC Level adjustment V.R.**
Used to adjust video output level of DC driven auto iris lens.
- ⑨ **Power input terminal**
Connect the power supply of 12Vdc.

CONTROL SWITCH OPERATION

SW1. SYNC MODE:

INT MODE: The camera may be operated independently with its internal crystal control.

L.L. MODE: This version w/o L.L. function.

SW2. AES:

AES: The automatic electronic shutter control 1/60(1/50) ~ 1/100.000 sec. is employed for using a manual Iris Lens.

SW3. Example of Back-Light Correction:

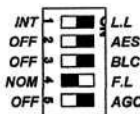
When the object is dark by strong light (sun illumination etc) on (Fig 3-1). Please turn on BLC this switch. The object becomes on (Fig 3-2).



AES-ON
BLC-OFF



Fig3-1



AES-ON
BLC-ON



Fig3-2

SW4. F.L. (Flickerless):

F.L: Fixes shutter speed at NTSC: 1/100 Sec.; PAL: 1/120 Sec.

⊙When using this switch, set "AES" OFF.

NOM: Normal position.

SW5.AGC:

AGC: level varies from 0 to 26dB.

OFF: AGC level is fixed at 0 dB.