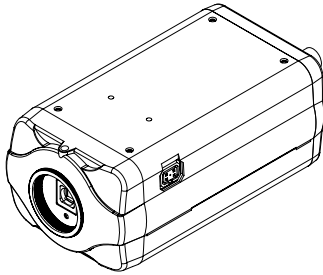


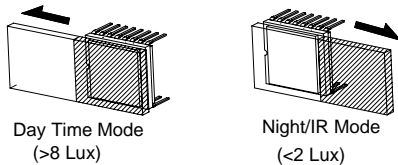
CS-IRdnLP

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.
9. Built-in mechanical IR cut filter (ICR).
As the camera senses the amount of light in the viewing area, it automatically turns the IR cut filter on and off accordingly.
10. Mechanical IR cut filter switching
As the scene illumination reduces (down to 2 Lux), in order to increase light sensitivity for a brighter image, the filter is automatically removed and the camera switches to B/W mode. After the scene regains brightness (up to 8 Lux), B/W mode switches back to color mode and as more precise color reproduction is essential in the color operation mode, the camera turns the filter on.



CAUTION

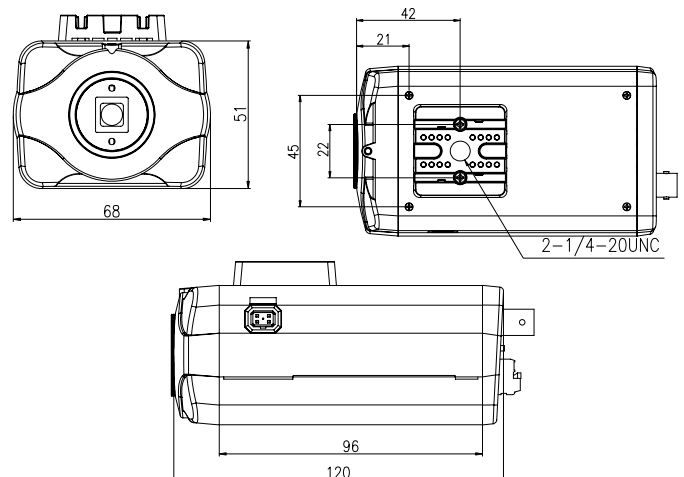
1. **Never point the camera toward the sun**
Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.
2. **Handle this camera with care**
Avoid any shock or bumping of the camera. Improper handling could damage the camera.
3. **Requires a proper operating environment**
This camera is designed for indoor use. The allowable temperature range for operation is between -10°C~50°C and the allowable humidity is 80% 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.

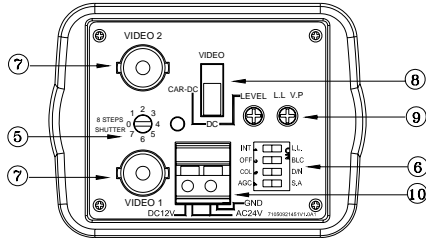
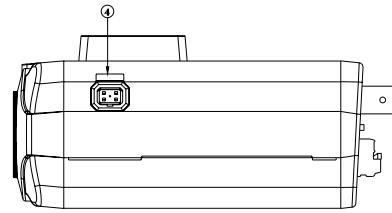
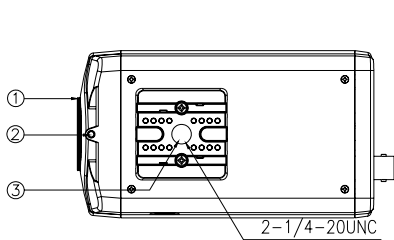
7. **Servicing**
Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.
8. **Damage requiring service**
Unplug this video product from the wall outlet and refer service 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
Image Sensor	1/3" Sony ExView HAD CCD II
DSP	Sony HQ1
Number of Total Pixels	795(H) × 596(V)
Synchronizing System	Internal / line-lock ac
Resolution this value for comparative purposes only	~ 550 TVL
Sensitivity these values for comparative purposes only	Colour mode automatically switches to B/W mode under 2 Lux Colour: 0.05Lux@F1.0; B/W: 0.01Lux@F1.0
Day/Night Switching	Mechanical IR Cut Filter (ICR) Auto Switching Color/Monochrome
Electronic Shutter Speed Modes	AES ON, AES OFF, 1/100(120) sec., 1/190sec., 1/350sec., 1/610sec., 1/1120sec., 1/2000sec., 1/3240sec., 1/4000sec.
Back Light Compensation	ON/OFF (Switchable)
Automatic Gain Control	AGC/S.AGC (Switchable)
Day/Night	D/N / Colour (Switchable)
Signal to Noise Ratio	More than 50dB (AGC OFF)
Auto Iris Control	Video / DC (Switchable)
White Balance	Automatic
Dynamic Noise Reduction	Automatic
Sense Up	Automatic
Video Output	1Vp-p Composite
Lens Mount	CS, C (with Adaptor)
Power Supply	12 VDC Regulated / 24 vac
Power Consumption	12VDC/24vac: ~ 3.5W
Operation Temperature	-10°C~50°C
Operation Humidity	RH80% or less
Storage Temperature	-20°C~60°C
Dimensions	68(W) x 51(H) x 120(L)mm
Weight	12VDC/24vac: 250g

DIMENSIONS (Unit : mm)





NOMENCLATURE AND FUNCTION

① Lens mount

This mount is used to install a CS-mount lens.
C-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.

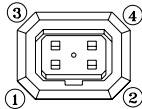
③ Mount adaptor

This adaptor can be attached to either the top or bottom of unit.

④ Auto iris lens connector (4-pin type)

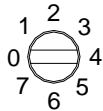
The lens connector supplies the auto-iris lens (not supplied) with DC power and a video signal or DC control signal.

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



⑤ ME DC Shutter Control

- | | |
|----------------------|-----------------|
| (0) 1/100 (120) sec. | (1) 1/190 sec. |
| (2) 1/350 sec. | (3) 1/610 sec. |
| (4) 1/1120 sec. | (5) 1/2000 sec. |
| (6) 1/3240 sec. | (7) 1/4000 sec. |



⑥ Control Switch

- SW1. SYNC MODE: SYNC Mode Selection; INT / L.L switch.
- SW2. BLC: Backlight compensation OFF / BLC switch
- SW3. Day/Night MODE: D/N / Color switch
- SW4. Automatic Gain Control: AGC / S.AGC switch

⑦ VIDEO connector

This is an output for connecting to a video monitor, etc (75Ω).

⑧ Auto Iris mode selection switch

For switching the output from the auto-iris connector. Shutter speed can be adjusted according to ⑤ when switch is set to DC or VIDEO position.

DC: To be set when using a non-amp auto-iris lens.

CAR-DC: To be set when using for license plate capture. (Car speed is up to 120km/hr in the daytime and 70km/hr at night.)

Video: To be set when using an auto-iris lens with built-in amp.

⑨ V.P (Vertical Phase adjuster)

This is used to adjust the vertical phase of the video output signal.

⑩ Power input terminal

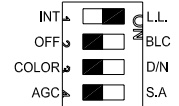
Connect the power supply of 12VDC Regulated or 24vac.

CONTROL SWITCH OPERATION

SW1. SYNC MODE:

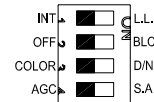
L.L. MODE: It synchronizes the video signal between cameras using the frequency of the power supply without external synchronous generator.

INT MODE: The camera maybe operated independently with the internal crystal control.

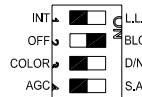


SW2. BLC (Back light compensation) mode switch:

When strong light (sun, sky, illumination, etc) is present behind the object being photographed, the object will appear dark. In this case, put this switch in the BLC position.



BLC-OFF →



BLC-ON →

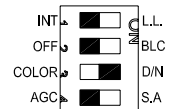


SW3. D/N mode switch:

COLOR / D/N switch.

D/N: Color mode automatically switches to B/W mode under 2 Lux.

COLOR: Normal position (D/N OFF).



SW4. AGC / S.AGC:

AGC: 6dB

S.AGC: When camera has installed at low light condition. The sensitivity of the camera rises (26dB).

※ In order to activate D/N function (Color mode automatically switches to B/W mode under 2 Lux), please switch to S.AGC.

