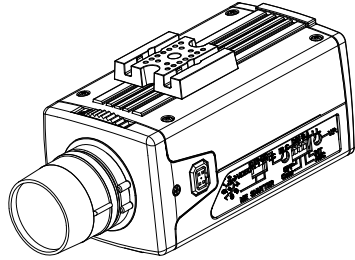


RP-GA8CP

ROADS / HIGHWAYS SURVEILLANCE 1/3" CAR LICENSE PLATE 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. CAR-DC Iris Control is available to achieve reliable car license plate recognition for roads surveillance, when car speed is up to 150km/hr in the daytime and 70km/hr at night.

CAUTION

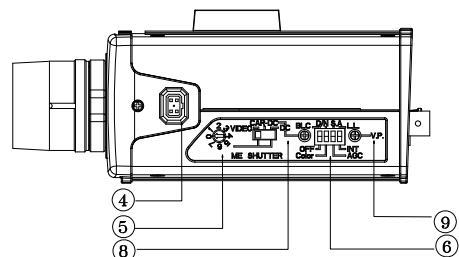
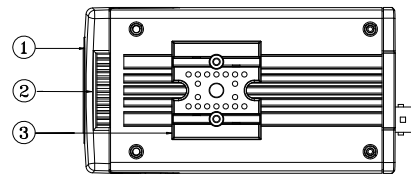
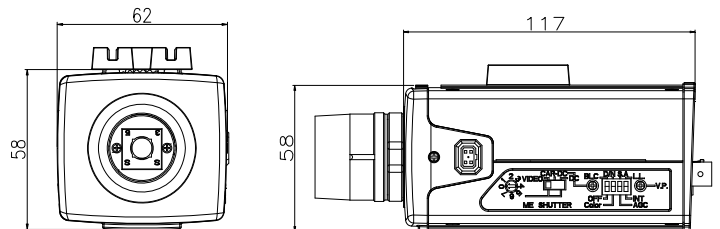
1. **Never point the camera toward the sun**
Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.
2. **Handle this camera with care**
Avoid any shock or bumping of the camera. Improper handling could damage the camera.
3. **Requires a proper operating environment**
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.

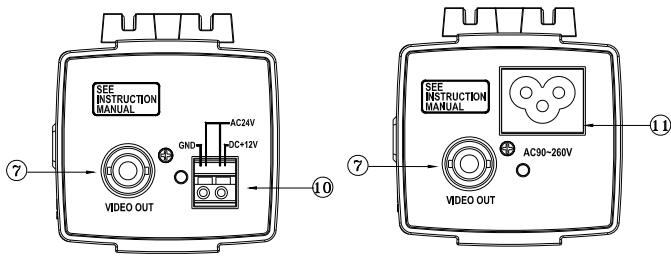
e. When the video product exhibits a distinct change in performance.

SPECIFICATION

TV System	PAL	NTSC
Image Sensor	1/3" SONY Super HAD CCD	
DSP	SONY HQ1	
Number of Total Pixels	795(H) × 596(V)	811(H) × 508(V)
Resolution	540TVL	
Minimum Illumination	Color mode automatically switches to B/W mode under 2 Lux 0.01Lux@F1.0	
Electronic Shutter Speed Modes	AES ON, AES OFF, 1/100(120) sec., FL:1/130sec.,1/160sec.,1/210sec., 1/280sec., 1/360sec., 1/420sec., 1/560sec.	
Synchronizing System	Internal/Line Lock (AC Version Only)	
Back Light Compensation	ON/OFF (Switchable)	
Automatic Gain Control	ON/OFF (Switchable)	
Day/Night	D/N / COLOR (Switchable)	
Signal to Noise Ratio	More than 50dB (S.AGC OFF)	
Auto Iris Control	Video / DC (Switchable)	
Auto White Balance	AWB	
Video Output	1Vp-p Composite	
Lens Mount	CS/C (With Adaptor)	
Power Supply	12Vdc/24Vac; 90~260Vac	
Power Consumption	12Vdc/24Vac:3.0W(250mA); 90~260Vac:4.5W	
Operation Temperature	-10°C~50°C	
Operation Humidity	RH80% or less	
Storage Temperature	-20°C~60°C	
Dimensions	62(W)×58(H)×117(L)mm	
Weight	12Vdc/24Vac: 400g ; 90~260Vac: 550g	

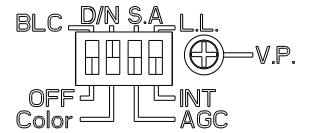
DIMENSIONS (Unit : mm)





SW2. D/N mode switch:

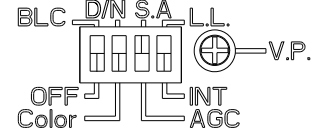
D/N: Color mode automatically switches to B/W mode under 2Lux.
 COLOR: Normal position (D/N OFF).



SW3. S.AGC/AGC:

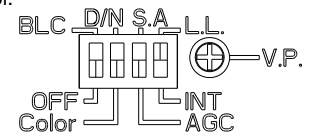
S.AGC: When camera has installed at low light condition. The sensitivity of the camera rises.
 AGC: 26dB

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



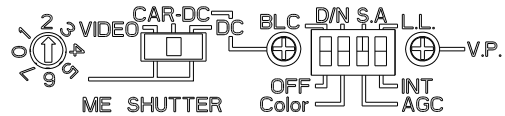
SW4. SYNC MODE:

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.

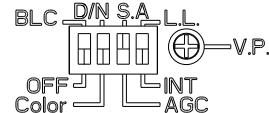


CONTROL SWITCH SETTING

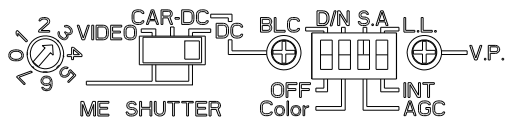
For Roads Surveillance: (Car speed is up to 150km/hr in the daytime and 70km/hr at night.)



- ME/AES Shutter Control should be set on "2".
- Auto Iris Mode should be switched to "CAR-DC" mode.
- Control Switch should be set as following.



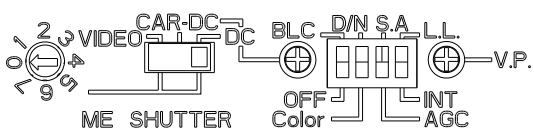
For Highways Surveillance:



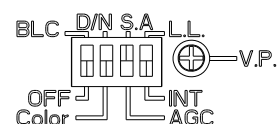
- ME/AES Shutter Control should be set on "3" or "4".
- Auto Iris Mode should be switched to "VIDEO" or "DC" mode.
- Control Switch should be set as following.



For Normal Surveillance:



- ME/AES Shutter Control should be set on "0".
- Auto Iris Mode should be switched to "VIDEO" or "DC" mode.
- Control Switch should be set as following.



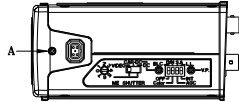
NOMENCLATURE AND FUNCTION

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 Mechanical focus adjustment

If focus needs to be adjusted after the lens had been mounted, losses the Flange back lock screw (A) and rotate the Adjustment wheel to adjust.



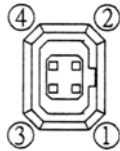
③ Mount adaptor

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

④ Auto iris lens connector (4-pin type)

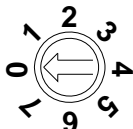
The lens connector supplies the auto-iris lens (not supplied) with DC power and a video signal or DC control signal.

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



⑤ ME/AES Shutter Control

- | | |
|----------------------|--------------------|
| (0) 1/100 (120) sec. | (1) FL: 1/130 sec. |
| (2) 1/160 sec. | (3) 1/210 sec. |
| (4) 1/280 sec. | (5) 1/360 sec. |
| (6) 1/420 sec. | (7) 1/560 sec. |



⑥ Control Switch

- SW1. BLC: Backlight compensation OFF / BLC switch
- SW2. Day/Night MODE: D/N / Color switch
- SW3. AGC: Automatic Gain Control AGC / S.AGC switch
- SW4. SYNC MODE: SYNC Mode Selection; L.L / INT 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 is fixed at 1/100 (120) sec. 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 car license plate capture. (Car speed is up to 150km/hr in the daytime and 70km/hr at night.)

Video: To be set when using an auto-iris lens with build-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 or 24Vac.

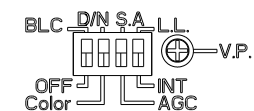
⑪ Power input terminal

Connect the power supply of 90~260Vac.

CONTROL SWITCH OPERATION

SW1. 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 →

