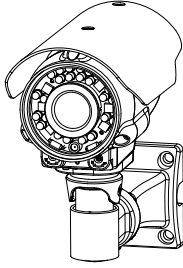


RP-GRA850

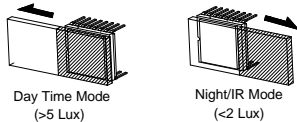
1/3" Color Outdoor IR Camera



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.
4. Ease of use in any application is achieved through the small.
5. Lower power consumption.
6. Relatively no interference from magnetic or electrostatic field.
7. Build-in mechanical IR cut filter. As the camera senses the amount of light in the viewing area, it automatically turns the IR cut filter on and off accordingly.
8. Mechanical IR cut filter switching

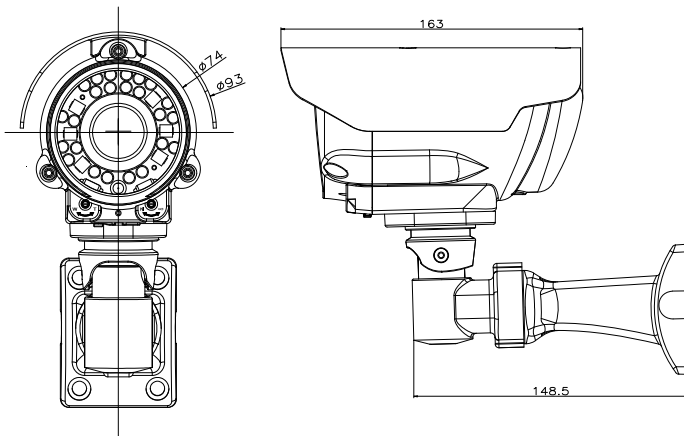
As the scene illumination reduces (down to 2 Lux), in order to increase light sensitivity for a brighter image, the filter is automatically removed and the camera switches to B/W mode. After the scene regains brightness (up to 5 Lux), B/W mode switches back to color mode and as more precise color reproduction 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 of the camera. Improper handling could damage the camera.
3. **Requires a proper operating environment**
This camera is designed for both indoor and out door use. The allowable temperature range for operation of this camera is between -10° C ~ +50° C and the allowable humidity is 80% maximum.
4. **Check the power source voltage**
The power source voltage should be within the specified range. (Camera must meet the specification)
5. **Clean the lens regularly**
It is recommended that the lens surface be cleaned regularly or when the lens is dusty to prevent obstruction of IR light. 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 fingerprint or dust.

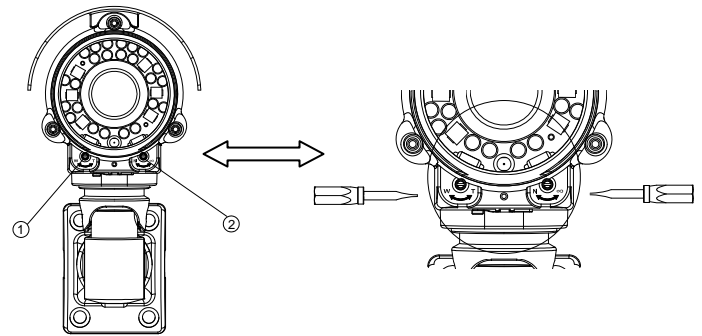
DIMENSIONS (Unit : mm)



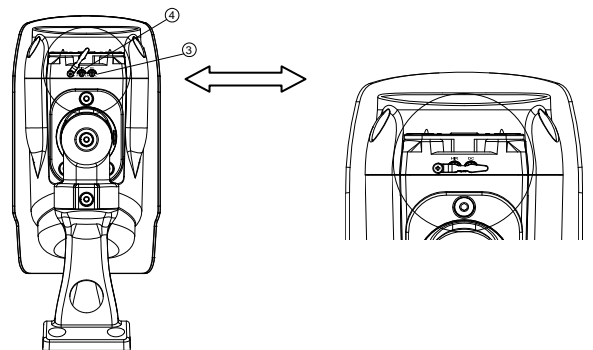
SPECIFICATION

TV System	PAL	NTSC
Image Sensor	1/3" Sony SUPER HAD CCD II	
DSP	Sony HQ1	
Total Pixels	795(H)×596(V)	811(H)×508(V)
Video Output	1.0Vp-p composite/75 Ohms (BNC connector)	
Resolution	540TVL	
Minimum Illumination	0 LUX (IR LED ON at 2 LUX / Controlled by a CDS sensor)	
IR Working Distance	Indoor: 30-50M Outdoor: 25-35M	
IR LED	6 Super High Power Reflection LEDs + 24 IR LEDs	
Water Resistance	IP66	
S/N Ratio	More than 50dB (AGC OFF)	
Synchronizing System	Internal	
Automatic Electronic Shutter	Automatic, 1/50 (60) sec.~1/100,000sec.	
Auto Gain Control	Automatic	
Auto White Balance	Automatic	
Dynamic Noise Reduction	Automatic	
Sense Up	Automatic	
Lens/Angle of View	Standard : f3.8mm-9.5mm/F1.2 Aspherical D/N lens 74.2°~30.0°	
Power Supply	12Vdc	
Power Consumption	12Vdc: IR on: 7.2W(600mA), IR off: 2.4W(200mA) ; 24Vac: IR on: 7.2W(300mA), IR off: 2.4W(100mA)	
Operation Temperature	-10° C ~ +50° C	
Storage Temperature	-20° C ~ +60° C	
Storage Humidity	Maximum: RH80%	
Dimensions	163(L) x 93(Ø) mm w/o Bracket	
Weight	800g	

NOMENCLATURES FUNCTIONS



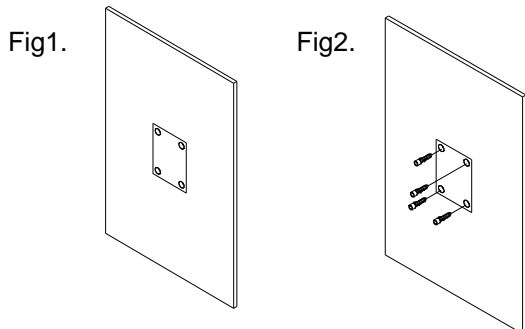
1. **External Varifocal Lens Adjustment (Wide/Tele)**
Please use a "flat-head" screw driver to adjust the lens angle for wide and tele.
2. **External Varifocal Lens Adjustment (Near/Far)**
Please use a "flat-head" screw driver to adjust the lens focus for near and far.



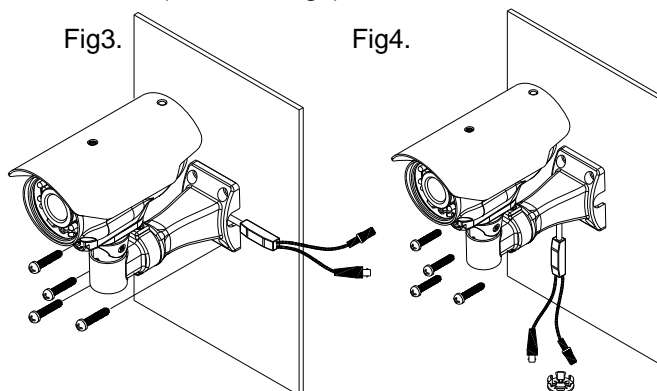
3. **DC Level**
The VR for adjusting the IRIS level of DC Auto Iris Lens.
 4. **HIR LEDs Adjustment**
The external IR LEDs adjustment is used to adjust the brightness of the 6pcs high power reflection IR light. As the installation environment changes, according to different illumination conditions, users can adjust a proper IR brightness.
- ※ Please lift the waterproof lid and use a smaller screw driver to adjust the DC level and IR LEDs adjustment. After the setting is done, please cover back the waterproof lid.

INSTALLATION

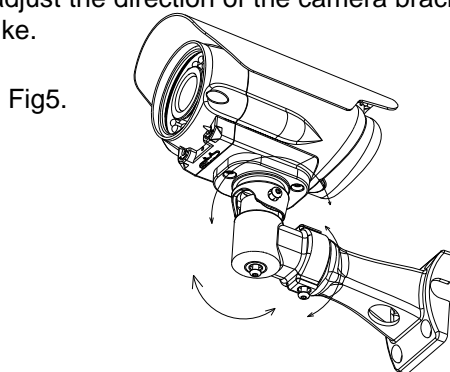
1. Please adhere the paster provided to the surface where you like to install the bracket on the wall as Figure 1. In accordance with the position of 4 holes shows on the paster to dig 4 holes, and then insert 4 anchors provided into the holes as shown in Figure 2.



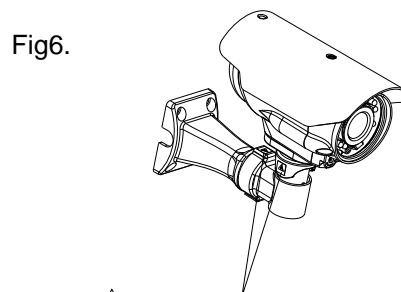
2. Mount the camera to the wall by 4 screws. You can let the camera cables go along the sides (as Fig3) or go downward (as Fig4). If the cable is go downward, a plastic cable protector provided is needed (shown in Fig4).



3. In accordance with the direction shows in Fig5 to adjust the direction of the camera bracket as you like.

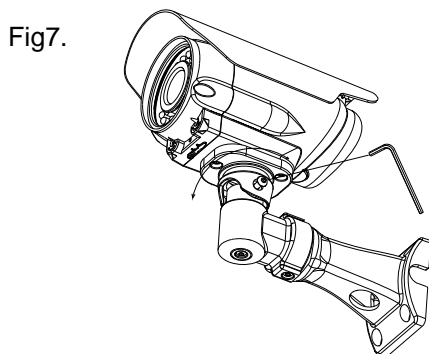


4. **⚠** Please note: During camera adjustment there are 2 screws as shown in Fig6 which you don't need to unfasten them.

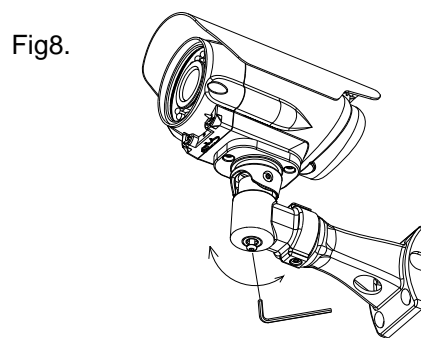


⚠ Do not unfasten these 2 screws

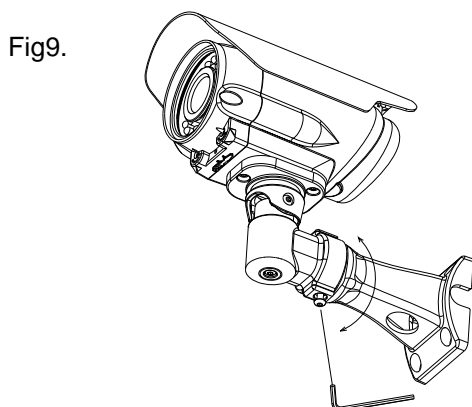
5. Use an "L" type wrench provided to fasten the screw to the bottom of the camera as Fig7. (Please hold the camera until the installation is finished.)



6. Then, use the wrench to fasten the screw to the connector of the camera and bracket as shown in Figure 8. (Please hold the camera until the installation is finished.)



7. Use the wrench to fasten the screw to the bracket as shown in Figure 9. (Please hold the camera until the installation is finished.)



8. Then the camera installation is finished as Figure 10 shows.

