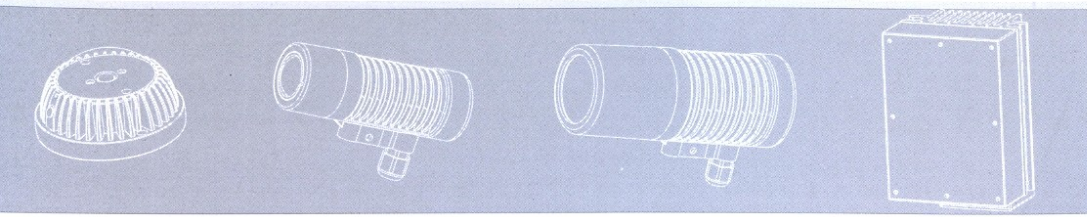


High Power IR Illuminators



INSTRUCTION MANUAL

Before using or installing the machine, please read this manual carefully and ensure to use correctly, and keep it handy for future reference.



ATTENTION AND WARNINGS



Caution:

only for people who has the qualification to install the product.

WARNING

To avoid the risk of electric shock and fire, do not use the power supply and voltage that we do not allow.

Warning

Our products has passed tests and become X-digital product. According to the 15 of FCC, it is desinged for offering logical protection proof if our products be malignant impinged by others in commercial society. It is possible to bring electric wave when you are using or manufacture our product, so please ensure to install or use in term of our manual, of not, any harmful result will be settled by youself.

Note

Any change that not be announced by our company which is concerned with our product may will have a impact on the right of using of user.



SAFETY TERMS

1. Read instruction ---All the safety and operating instructions should be read before the appliance is operated.
2. Cleaning product clean it with wet cotton. Do not use erodent liquid cleaner or aerosol cleaner. Make sure to clean the camera lens with lens paper or cotton bud with alcohol.
3. Make sure to use the factories' additional device in case of fire, electric shock and continueingency
4. Do not put the product on unsmooth handcart and bracket.
5. Make sure to use it in ventilation place.
6. Make sure to use correct electric source that written in label.
7. Make sure to pull out the attaching plug when you are planing to not use the product for a long time or befor hurricane.
8. Do not use electric outlet over-loadly or ann wire, or it will build a fire or get a electric shock.
9. Anything can not be put into the inside of our equipment, or it will fouch the end of voltage result in fire of electric shock.
10. To avoid getting a electric shock, please do not teardown the equipment without and safety measure, and contrat with professional maintenance man to mend it. Just like follow;
 - A. When the power-supply cord or the plug has been damaged.
 - B. If liquid has spilled, or objects have fallen into the camera product.
 - C. If the camera product has been dropped.
 - D. When the performance of the camera product obviously changed.
12. Replacement parts when replacement parts are required, be sure the service technician has used replacement parts. Specied by the manufactruer or that have the same characeristics as the original part. Unauthorized substitutions may result in fire, electric shock to other hazareds.
13. After any maintain, asking the technologist to check the camera product to make sure it can worknormalty.

This series of products has use the world's most advanced technology with IR filter and highly integration LEDARRAY, it can give you the best vision effect and the most clear picture at any brightness condition.

In order to ensure the best night vision images, please adopt SONY CCD chips infrared night vision camera, it is the better to use IR special lens for camera lens and dual-filter for the filter system.

Standard Annex:

Instruction manual ----- 1 Pcs
(due to the list of package)

Model			
Figure	Dome	Dome	Dome
Power source	DC 12V/AC 24V (OPT)	DC 12V/AC 24V (OPT)	DC 12V/AC 24V (OPT)
Power consumption	4.5W	5.8W	7.2W
IR optical output	1,800mW	2,400mW	2,800mW
Half intensity beam angle	120°	120°	120°
IR wavelength	850nm	850nm	850nm
Operating temperature	-20°Cto +60°C	-20°Cto +60°C	-20°Cto +60°C
Dimensions	Φ2.5"	Φ2.5"	Φ2.5"
Weight	400g	400g	400g

Model				
Figure	Columnar	Columnar	Columnar	Columnar
Power source	DC 12V/AC 24V (OPT)	DC 12V/AC 24V (OPT)	DC 12V/AC 24V (OPT)	DC 12V/AC 24V (OPT)
Power consumption	4.5W	5.8W	7.2W	8.5W
IR optical output	1,800mW	2,400mW	2,800mW	3,600mW
Half intensity beam angle	Optional 120° /45° /30° /22°		Optional 33° /15°	
IR wavelength	850nm		850nm	
Operating temperature	-20°Cto +60°C		-20°Cto +60°C	
Dimensions	Φ41mm x 120mm		Φ61mm x 154mm	
Weight	200g		400g	

Feature:

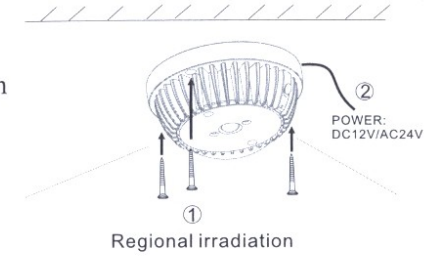
- 1.In&ourdoor IR illuminator
- 2.IR optical output:1,800mW-2800mW

3.IR wavelength: 850nm

IR illuminator installing:

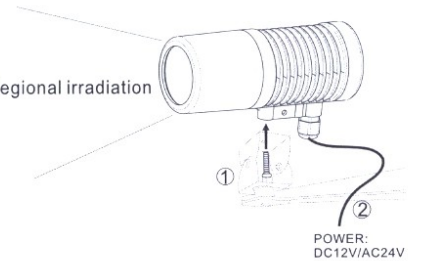
The installing of Dome illuminator

- 1.put the dome illuminator to the irradiation area,and then fix it with screw.
- 2.Electric power connect with AC/DC
- 3.After testing,then install.



Sleeve illuminator installing:

- 1.put the illuminator on bracket and fix it with screw, adjust the angle.
- 2.connect the electric power with AC/DC
- 3.After testing,then install.



Model				
Figure	Dome	Dome	Columnar	Columnar
Power source	DC 12V/AC 24V (OPT)	DC 12V/AC 24V (OPT)	DC 12V/AC 24V (OPT)	DC 12V/AC 24V (OPT)
Power consumption	5.8W	7.2W	6.7W	7.2W
IR optical output	2,400mW	3,000mW	2,400mW	3,000mW
Half intensity beam angle	120°	120°	120° /45° /30° /22°	Optional 33° /15°
IR wavelength	940nm	940nm	940nm	940nm
Operating temperature	-20°Cto +60°C	-20°Cto +60°C	-20°Cto +60°C	-20°Cto +60°C
Dimensions	Φ2.5"	Φ2.5"	Φ41mm x 154mm	Φ61mm x 154mm
Weight	400g	400g	200g	400g

Model			
Figure	Flat-panel	Flat-panel	Flat-panel
Power source	DC12V, 5A	DC12V, 5A	DC12V, 5A
Power consumption	23W	29W	36W
IR optical output	9,000mW	12000mW	14000mW
Half intensity beam angle	22° /45°		
IR wavelength	850nm		
Operating temperature	-20°Cto +60°C		
Dimensions	110mmx110mmx150mm		
Weight	1.7kg		

Feature:

- 1.In&ourdoor IR illuminator
- 2.IR optical output:1,800mW-2800mW

3.IR wavelength: 940nm

Malfunction Phenomena I

clear image in day time, but hard to see clearly in night, or there is horizontal line in the image, when night vision function startup, the image disappears.

Reason

- A. lack of electric power
- B. power line too long
- C. check beyond camera to see whether there is source of disturbance.
- D. Check the camera lens to see whether there is water vapor or dirty in it
- E. Check whether the transmission distance is too long.
- F. Check the voltage work normally or not

Elimination

- A. Replacing the power
- B. Change the place of the electric power that can take out.
- C. Remove the source of disturbance
- D. Clean the camera lens with lens paper
- E. Choose the best video cable or add an amplifier
- F. Choose the balance voltage to connect the electric power

Malfunction Phenomena II

no ray output

Reason

- A. check the electric power
- B. Whether there is enough voltage
- C. the electric is broken

Elimination

- A. reconnect the electric power again
- B. choose the steady voltage to connect the electric power
- C. replacing the electric power

1. To avoid getting an electric shock, please do not tear down the equipment without any safety measure. If any damage, please contact with professional maintenance man.
2. Please be careful when using the camera product, and avoid to be bumped or be oscillated.
3. To install the machine must do by these people who have the qualification.
4. Cleaning product clean it with wet cotton. Do not use erodent liquid cleaner or aerosol cleaner. Make sure to clean the camera lens with lens paper or cotton bud with alcohol.
5. Please clean the camera lens carefully. It must be clean with lens paper or cotton bud alcohol.
6. Make sure to use camera in temperature from -40 centigrade degree to 50 centigrade degree and less than 90% humidity or in the range of electric source specification. When the camera is installed in a cold condition, it needs sometime (maybe about 10 minutes) to warm-up.
7. When using the equipment, something wrong happens, please turn off the power source at once.