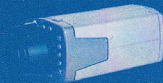
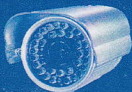
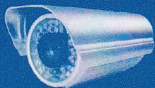




CCD系列彩色摄像机 产品说明书

DIGITAL CCTV CAMERA



■ Warning



The symbol is intended to alert the user to the presence of uninsulated “ dangerous voltage ” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric to persons.



The symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



WARNING

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



Note: Only professional technician is not allowed to open the front or back cover of this camera.

Note:

In order to avoid electrical shock or fire, please use proper power according to the manual.

■ General

Thanks for using our products. Before use, please read this manual carefully to ensure the correct use of this series of products. Please keep the manual properly for future use

This series of cameras take high-sensitivity CCD as the image sensor; all circuits have long work life and high reliability; such advantages as small volume, light weight, shock resistance and so on are available; excellent image will be the top choice for your camera.

■ Main Features

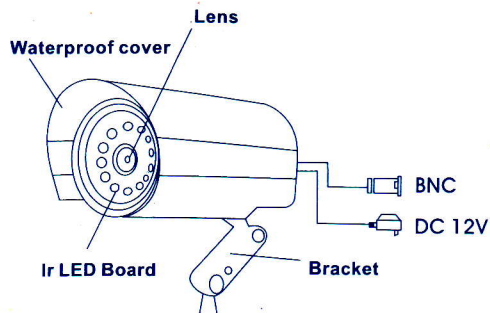
1. Easy to install and assemble;
2. High resolution, high sensitivity and high s/n ratio;
3. Low illumination, high quality image ;
4. CCD sensor can prolong the work life of camera;
5. With DSP and CCD chip, image is clear and stable.

■ Notices

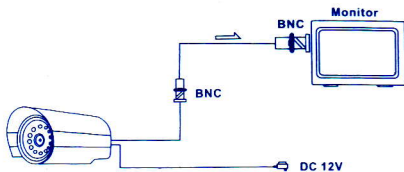
1. Do not operate the camera under sun or strong light;
2. Please use correct power, do not expose the camera in rain or dusty Surroundings (except waterproof camera);
3. Do not touch the CCD surface with finger. If cleaning is in need, Please wipe it using soft cloth with a little of alcohol;

4. In order to prevent the camera from damaging, be careful shock to avoid strong shock;
5. Only professional technician can install and test this camera in the allowed surroundings;
6. During use, if any error occur, cut off the power immediately and contact local distributor.

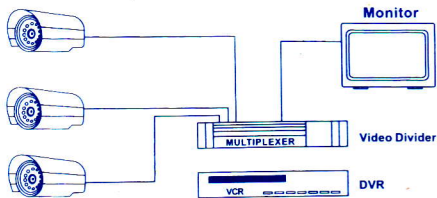
■ Structure and Components



System Connection



(1) Use one camera and one monitor



(2) Use Several Cameras and one Monitor

IR Waterproof Camera Specification (10m\25m\40m)

Image Sensor	1/4 Sony/Sharp CCD 1/3 Sony/Sharp CCD			
Video Out	1.0Vp-p/75Ω BNC			
Scan Model	Interleaved 2:1			
Horizontal Resolution	420TVL	480TVL	520TVL	560TVL
Minimum Illumination	0LUX			
S/N Ratio	≥48dB			
γ Feature	γ =0.45			
Auto Electronic Shutter	CCIR(1/50~1/100,000s);EIA(1/60~1/100,000s)			
Synchronous System	Row Lock/Inner Synchronous			
Auto Gain Control	Automatic			
Backlight Compensation	Automatic			
Lens	3.6~8mm (Cmount adaptoroption)			
White Balance	Automatic Tracing			
Power Requirement	12VDC			
Waterproof grade	IP68			
InfraredAttack Illumination	0 ~ 5LUX			
Work Current	<input type="checkbox"/> 70~400mA		<input type="checkbox"/> 100~400mA	
	<input type="checkbox"/> 120~400mA		<input type="checkbox"/> 140~400mA	
Infrared Wavelength	850nm			
Work Temperature	-20℃ ~ +60℃			
Effective Range	<input type="checkbox"/> 10m	<input type="checkbox"/> 20m	<input type="checkbox"/> 30m	<input type="checkbox"/> 40m

■ IR Waterproof Camera Specification(80m)

Image Sensor	1/3 Sony CCD	1/3 Sharp CCD
Video Out	1.0Vp-p/75Ω BNC	
Scan Model	Interleaved 2:1	
Horizontal Resolution	420TVL	480TVL 520TVL 560TVL
Minimum Illumination	0LUX	
S/N Ratio	≥48dB	
γ Feature	γ =0.45	
Auto Electronic Shutter	CCIR(1/50~1/100,000s);EIA(1/60~1/100,000s)	
Synchronous System	Row Lock/Inner Synchronous	
Auto Gain Control	Automatic	
Backlight Compensation	Automatic	
Lens	16mm	
White Balance	Automatic Tracing	
Power Requirement	12VDC	
Waterproof grade	IP68	
InfraredAttack Illumination	0 ~ 5LUX	
Work Current	LED off 140mA, LED on 700mA	
Infrared Wavelength	850nm	
Work Temperature	-20℃ ~ +60℃	
Effective Range	50m	

■ IR Waterproof Camera Specification (100m)

Image Sensor	1/3 Sony CCD			
Video Out	1.0Vp-p/75Ω BNC			
Scan Model	Interleaved 2:1			
Horizontal Resolution	420TVL	480TVL	520TVL	560TVL
Minimum Illumination	0LUX			
S/N Ratio	≥48dB			
γ Feature	γ =0.45			
Auto Electronic Shutter	CCIR(1/50~1/100,000s);EIA(1/60~1/100,000s)			
Synchronous System	Row Lock/Inner Synchronous			
Auto Gain Control	Automatic			
Backlight Compensation	Automatic			
Lens	8.5~51mm三可变			
White Balance	Automatic Tracing			
Power Requirement	12VDC			
Waterproof grade	IP68			
InfraredAttack Illumination	0 ~ 5LUX			
Work Current	LED off 140mA, LED on 850mA			
Infrared Wavelength	850nm			
Work Temperature	-20℃ ~ +60℃			
Effective Range	100m			