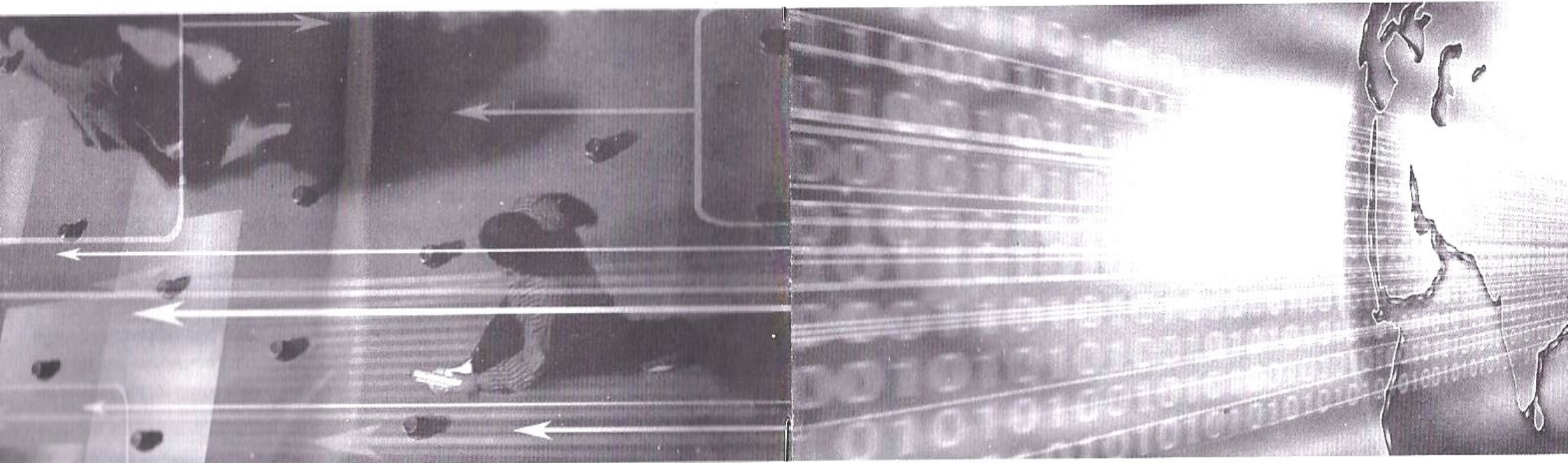


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MANUAL

IR CAMERA



Content

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WARNING

WARNING: TO prevent fire or shock hazard, do not expose the unit to Rain or moisture.



The symbol is intended to alert the user to the presence of Important operating and mainenance (servicing) Instruction in the literature accompanying the appliance.



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 shock to persons.

Caution: To Prevent Electric Shocks and risk Of fire hazards Do not use other Than specified Power source

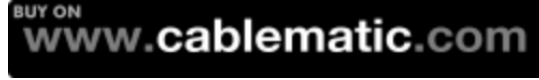
WARNING :

This equipment has been tested and found to comply with the limits for a class A digital device , pursuant to part 15 of the FCC rules . These limits are designed to provise reasonable protection against harmful interference when the equipment is operated in a commercial environment . This equipment generates , uses , and can radiate radi frequency energy and if not installed and used in accordance with the instructions manual , may cause harmful interference in which case the user will be required to correct the inference at his own expense.

CAUTION :

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could affect the user's authority to operate the equipment.

Terminal and control wire description



OPERATION:

I、SYV-75: VIDEO OUT

1.0Vp-p 75Ω composite video signal is provided at this connector

II、WIRE:

RED	BREAK	BROWM	PUPPLE	ORANGE	GRAY
DC+12V	DC-12V(GND)	COM	ZOOM	FOCUS	IRIS

Remarks:Remarks:30 meter,25 meter,20meter,15 meter,10 meter, hemispheres series machines have no this electric cable, only video the line and porer cables match to press the line.

1、POWER

NO	COLOR	FUCTION	I/O	NOTE
1	RED	POWER(+)	INPUT	DC+12V
2	BREAK	POWER(-.GND)	INPUT	DC-12V

The 22 X focuses automatically, an electricity moves to focuse(100 M), 80 meter series model usage power supply, can choose the DC12V, AC 24V, AC220V, don't explain specially all for AC220V. The rest model all uses the DC12V power supply power supply. The power supply power please read the technique parameter form.

2、Lens protective cap

NO	COLOR	FUCTION	I/O	NOTE
1	ORANGE	FOCUS(+NEAR,-FAR)	INPUT	±9V(±3V±12V)
2	PUPPLE	ZOOM(+TELE,-WIDE)	INPUT	±9V(±3V±12V)
3	GRAY	IRIS(+ON,-OFF)/MENU	INPUT	±9V(±3V±12V)
4	BROWM	COM(FORZOOM,FOCRS,IRIS)	INPUT	±9V(±3V±12V)

80-100meter,60 meter models control the function cordlessly Above for an operating instructions for automatically focusing,an electricity moving focusing,80 meter, 60meter series models;30 meter,25 meter,20 meter, 15meter,10 meter,hemispheres series models need and will see the line of video , power cable direct conjunction good then.

SPECIFICATIONS

SPECIFICATIONS

Model	30XAUTO FOCUS	27XAUTO FOCUS	22XMOVE FOCUS	16XMOVE FOCUS
Signal system	PAL/NTSC			
Image sensor	1/3"SONY CCD	1/4"SONY CCD	1/3"SONY CCD	
Horizontal resolution	480TV Lines		470TV Lines	
Lens	F=3.5~94.5mm	F=3.9~85.8mm	F=4.3~70mm	
Min.Illumination	0LUX (IR ON)			
S/N ratio	More than48dB			
Distance(Meter)	80~100m		70m	
View angle	80°			
IR LED	7+14(Ø8)Pcs850nm/ 154(Ø5)Pcs 850nm		77(Ø5)pcs850nm	
Average life	20000hrs, warranty life: 60000hrs			
Water resistance	IP65			
Video output	1.0Vp-p75Ω			
Foucs	AUTO FOCUS	MOVE FOCUS		
OSD	AUTO FOCUS/MOVE FOCUS/OSD			
Operation temperature	-20°C~50°C			
Supplied power	AC220V ±20%			DC12V1000mA

SPECIFICATIONS

Model	60M	50M	60M	30M
Signal system	PAL/NTSC			
Image sensor	1/4"SONY CCD	1/4"SHARP CCD	1/3"SONY CCD	
Horizontal resolution	420TV Lines	470TV Lines	420TV Lines	
Lens	16mm			4mm 6mm
Min.Illumination	OLUX (IR ON)			
S/N ratio	More than 48dB			
Distance(Meter)	60m	50m	30m-60m	
View angle	60°	80°	60°	45°
IR LED	35(ø8)Pcs850nm			
Average life	20000hrs, warranty life: 6000hrs			
Water resistance	IP65			
Video output	1.0Vp-p75Ω			
Operation temperature	-20°C~50°C			
Supplied power	DC12V/1000mA			DC12V/750mA

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SPECIFICATIONS

SPECIFICATIONS

Model	30M	25M	25M	30M
Signal system	PAL/NTSC		CCIR/EIA	PAL/NTSC
Image sensor	1/3"SHARP CCD	1/4"SHARP CCD	1/3"SONY CCD	
Horizontal resolution	420TV Lines		480TV Lines	420TV Lines
Lens	6mm,8mm			4mm,6mm
Min.Illumination	OLUX (IR ON)			
S/N ratio	More than 48dB			
Distance(Meter)	15-30m		25m-30m	30m
View angle	60°			45°
IR LED	36(ø5)Pcs850nm	24(ø5)Pcs850nm		14(ø5)pcs850nm
Average life	20000hrs, warranty life: 6000hrs			
Water resistance	IP65			
Video output	1.0Vp-p75Ω			
Operation temperature	-10°C~50°C			
Supplied power	DC12V/750mA			

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SPECIFICATIONS

SPECIFICATIONS

Model	LED ARRAY	Manual Focus
Signal system	PAL/NTSC	
Image sensor	1/3"SONY CCD	
Horizontal resolution	470TV Lines	
Lens	6/8/12/16/25mm	3.5-8mm Manual Focus
Min.Illumination	OLUX (IR ON)	
S/N ratio	More than48dB	
Distance(Meter)	30m	60m
View angle	60°	45°
IR LED	1Pcs LED ARRAY	2Pcs LED ARRAY
Average life	40000hrs, warranty life: 20000hrs	
Water resistance	IP65	
Video output	1.0Vp-p75Ω	
Operation temperature	-10°C~50°C	
Supplied power	DC12V/750mA	

SPECIFICATIONS

DUAL CCD SPECIFICATIONS

Model	50M	80M	50M	80M
Signal system	PAL/NTSC			
Image sensor	Color 1/3"SHARP CCD B/W 1/3"SONY CCD		Color 1/3"SONY CCD B/W 1/3"SONY CCD	
Horizontal resolution	Color 420TV Lines B/W 480TV Lines			
Lens	6/8/12/16mm	8/12/16/25mm	6/8/12/16mm	8/12/16/25mm
Min.Illumination	OLUX (IR ON)			
S/N ratio	More than48dB			
Distance(Meter)	50m	80m	50m	80m
View angle	60°/45°/30°			
IR LED	36/42(ø8)Pcs850nm			
Average life	20000hrs, warranty life: 60000hrs			
Water resistance	IP65			
Video output	1.0Vp-p75Ω			
Operation temperature	-10°C~50°C			
Supplied power	DC12V/750mA			

SPECIFICATIONS

DOME IR SPECIFICATIONS

Model	25M	20M	15M
Signal system	PAL/NTSC		
Image sensor	1/3"SONY CCD 480TV Lines	1/4"SONY CCD 420TV Lines	1/4"SHARP CCD 1/4"SHARP CCD
Horizontal resolution	3.6/6/8/12mm		
Lens	OLUX (IR ON)		
Min.Illumination	More than48dB		
S/N ratio	15-25m	20m	15m
Distance(Meter)	60°/45°		
View angle	10-23(ø5)Pcs850nm		
IR LED	20000hrs, warranty life: 6000hrs		
Average life	IP65		
Water resistance	1.0Vp-p75Ω		
Video output	-10°C~50°C		
Operation temperature	DC12V/500mA		
Supplied power			

AUTO CAMERA CAUTION FAMILIAR BREAKDOW EXPELS

1.Do not attempt to disassemble the camera.

In order to prevent electric shock, do not remove screws or cover.

There are no user-serviceable parts inside. Refer all servicing to qualified Service personnel.

2.Handle the camera with care.

The camera could be damaged by improper handling or storage.

3.Do not expose the camera to rain or moisture, or try to operate it in wet areas.

Take immediate action if the camera becomes wet. Turn the power off and refer servicing to qualified service personnel. Moisture can damage the camera and also create a danger of electric shock.

4.Do not use strong or abrasive detergents when cleaning the camera body.

Use a dry cloth to clean the camera when dirty. In case the dirt is hard to remove, use a mild detergent and wipe gently.

5.Never point the camera toward the sun ,

Whether the camera is used outdoors or not, never point it toward the sun, use caution when operating the camera in the vicinity of spot lights or other bright lights and light reflecting objects.

6.Do not operate the camera beyond its Temperature ,humidity or power source Ratings.

Do not use the camera in an extreme environment where high temperature or high humidity exists. Use the camera under condition where temperatures are between -10°C ~+50°C , and humidity is below 85%.For the correct power supply, refer to the specification sheet.

INDEX	BREAK DOWN	EXPEL METHOD	EXPEL THE METHOD
1	The picture is normal in the daytime, unclear in nighttime or nighttime pictures in the center contain horizontal the interference.	The power supply power is not enough or the power cable is too long	Replacing power supply or changeses takes to give or give or get an electric shock the position
2	NO diagram	Line did not mount The power supply is bad The power supply did not mount	Connect to the line Replace the power supply Put on the power supply
3	The line controls the function has no effect	The control line did not connect according to the request	Connect the control line according to the request