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TECHNOLOGIES

IT I380XIR

Day&Nigth Digital CCD Camera

DAY & NIGHT

480 TV LINE

CCD 1/3"

12 VDC

SONY EXview HAD CCD™

The IT I380XIR is a professional high quality Digital Day&Nigth CCD Camera with SONY ExviewHAD CCD technology and digital signal processor (DSP). The camera is designed in order to be strongly resistant to electromagnetic field and to be installed in a wide range of operating temperature. With its lightweight and compact size, this camera is the perfect solution for professional monitoring and surveillance application.

CAUTIONS

1. The applied power supply is DC 11.5 ~ 14V, the current should not be more than 300mA.

2. Do not expose the camera to rainy or highly moist conditions.

3. Avoid using under abnormally high or low temperature conditions. (Recommended temperature range: -10℃ ~ 50℃).

4. Do not install the camera in places with direct sunlight.

5. Installing under fluorescent or incandescent light immediately may cause flicker of the monitor. It does not mean the camera is damaged.

6. When installing the camera in an industrial estate or downtown (i.e. within workshops or near to other electronic devices, etc.), make sure to avoid any strong electromagnetic field.

7. Do not connect any power supply directly to the terminal of the VIDEO OUT connector, which may cause damage.

8. When using a video/power multiplex transmission cable, check the specifications of your monitor so as to connect with the video signal terminal of the camera properly.

9. Do not make any connections or operations to the camera with the wet hands. This may cause an electric shock.

10. Once the camera not worked properly, cut off the power supply immediately, then check all connectors, power supply cables and video cables to see whether they are properly connected.

NOTE : Facing the camera lens to sun light directly may cause damages to the CCD.

OPERATION

1. Before the lens mounting, loosen the two screws on the ring and rotate this ring clockwise until it stops. If the ring is not fixed, the inner glass of lens or CCD image sensor may be damaged.

   • Mount the lens by turning it clockwise on the lens mount of the camera.

   • Connect the lens cable to the auto iris lens mount of the camera.

2. Focus or Back Focal Adjustment.

The following adjustment should be made by qualified service personnel or system installers.

   • Loosen the screws on the back focal adjusting ring.

   • Turn the back focal adjusting ring to desired position.

CAUTION: When the lens is mounted, do not rotate the ring counter clockwise by force. If the ring is rotated by force, the inner glass of lens or CCD image sensor may be damaged.
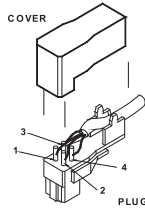
3. Tighten the screws on the back focal adjusting ring.

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SWITCHES FUNCTION AND COMPONENTS
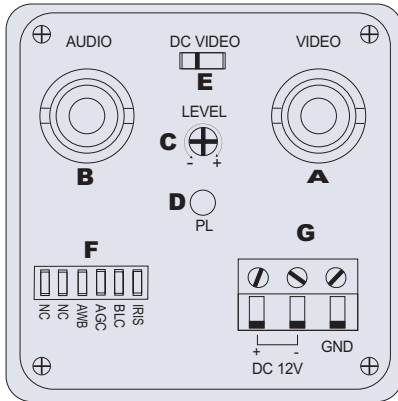
A - Video Out
B - Audio Out
C - Function Switch
D - Power Indicator

E - DC Drive Lens Voltage Adjusting Knob
F - Function Switch
G - Power connector

Auto-iris Lens Connection:
Assemble the miniature plug (not included) for the auto-iris lens as below:

FUNCTION OF ON/OFF SWITCHES

1. BackLight Compensation.

This function is used in the surroundings where the lights of background is too strong. After it`s ON, you can still obtain a distinct image.

2. Lightness Control.

ALC - auto lightness control, can be used to DC auto iris lens;

ELC - electronic light control, can be used to manual iris lens.

3. Mirror. (AGC Auto)

4. Selection of White Balance mode.

ATW - Auto Trace White Balance;

AWC - Auto White Balance. Recommended use AWC in normal environment . (AWC is default mode).

If the proper picture does not appear on the monitor, ensure that the following points are correct:

•*Whether the power connector jack and the video cable are firmly connected.*

•*Whether the power cable and the video cable are connected or not damaged.*

•*Whether the specifications of the camera and the monitor is matched. (NTSC/PAL system ?)*

•*Whether the power supply is stable between DC+10.8V-13.2V and the current used for the camera is not more than 300mA.*

•*Whether the lens unit aligns with the camera visual access panel.*

If the camera still does not work in a proper way after checking the above items, stop using it immediately and contact the distributor or dealer from whom it was purchased.

TECHNICAL SPECIFICATIONS

Image Pick Up Device: 1/3" Sony ExviewCCD

Signal Format: PAL or NTSC (Color)

Effective Pixels: PAL:752H×582V
NTSC:510H×492V

Horizontal Resolution: 480 TVL

Minimum Illumination: 0,1 Lux/F1,2 Color - 0,001 Lux/F1.2 BW - O Lux/F1,2 External IR On

Scanning System: PAL: 625TVL
NTSC: 525TVL; 2:1 Interlace

Synchronization: Internal Sync
Line Lock, External Sync

Infrared Wave Length: 700-1000 mm

S/N Ratio: Over 48 dB (AGC off)

Auto Gain Control (AGC): 40dB (On) / 16dB (Off); Selectable

Electronic Shutter: On/Off (Up to 1/100.000 seconds

White Balance: Auto Tracking White Balance (ATW) 2500°K to 9500°K

Back Light Compensation (BLC): On/Off; Selectable

Video Output: 1.0 Vp-p 75Ω Composite, BNCx1

Gamma Ratio: 0.45

Auto-iris Lens: Video or DC Driver; Selectable

Lens Mount: CS Mount, With CMountAdaptor

Power Supply: 12VDC ±10%

Power Consumption: 2,2W, 185mA

Working Temperature: -10° to +50°, RH 95%

Storage Temperature: -20° to +60°, RH 95%

Dimensions: 111mm(L)*63mm(W)*55mm(H)

Weight: 370 gr (without lens)