DIGITAL VIDEO CAMERA
User's manual

Box camera

Warning & Attention

WARNING

Please don't open camera,it's with danger of electronic shock.

Attention:
To reduce the danger of electronic shock, please don't open the case (or back cover) of camera; everything is on the surface of camera for user's operation, please seek help from qualified profeesionals for repair.

Attention items:

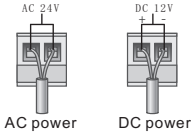
- **Don't touch CCD or lens;**
- **Make camera away from violent attack;**
- **Don't use any unidentified power supply;**
- **Make camera lens away from strong light;**
- **Avoid installation in unstable places (shake, wet, high temperature, cold, etc);**
- **Avoid operation out of the following conditions, temperature: -10℃～+50℃, humidity: less than 90%;**

Connect lens and monitor

1.VIDEO OUTPUT CONNECTOR(BNC)

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

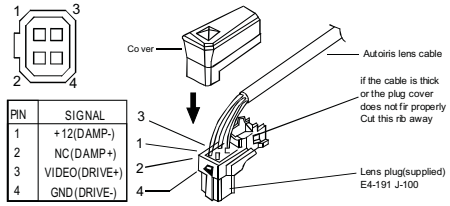
2.POWER INPUT CONNECTOR (SCREWTERMINAL)



This terminal accept DC 12V / AC 24V Power Supply
Recommended Power Supply For
Color Camera: 750~800mA DC
B/WCamera: 300~800mA DC
Regulated Power Supply is strongly recommended!

3.Autoiris lens(LENS) DC/VIDEO Switch

4.AUTO IRIS LENS CONNECTOR (AUTO IRIS)



PIN	SIGNAL
1	+12(DAMP-)
2	NC(DAMP+)
3	VIDEO(DRIVE+)
4	GND(DRIVE-)

5.AUTO TRACKING WHITE BALANCE(ATW)

6.AUTO GAIN CONTROL(AGC) ON/OFF SWITCH

7.EE/AI SWITCH

This switch is used to select EE(electronic exposure or ELC electronic light control) mode or AI (automatic lens or ALCautomatic light control) mode.
In the EE mode, a continuously variable electronic shutter isemployed to automatically control the exposure time of the CCD image sensor according to the incoming light level. With this mode selected. a fixed or manual iris lens can be usedinstead of an autoiris lens. In the AI mode. The CCD shutterspeed is fixed to 1/60/(50) sec. and the incoming light level is controlled by the autoiris lens.
To use a video-drive type or the DC-drive type of autoiris lens,set this switch to the AI position.

8.BACK LIGHT COMPENSATION(BLS)ON/OFF SWITCH

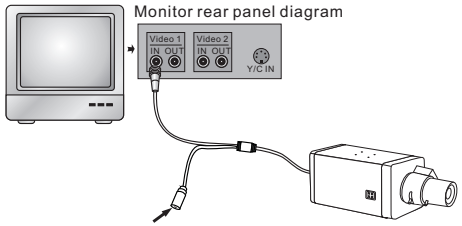
Back light compensation(BLC)ON/OFF switch if the subjectyou wish to view is too dim because of a bright background.set the BLC switch to ON to compensate for the brightbackground.
With BLC on the background brightness may saturate in somecases. This function may not operate properly if the object istoo small compared to the area if the background. Thisfunction can be used with either the linear shutter (EE mode)or an autoiris lens(All lens mode).

BACK LIGHT ON

BACK LIGHT OFF

9.Power Indicator LED

This LED turns on indicate the power is supplied to the camera properly.



Notes

1：Connect GND terminal to ground;
2：Make sure to switch on the power supply after all installation completed.
3：Select the correct displaying channel of the monitor.
4：If you use an intermediate device, please select 75Ω/Hi-Z switch for connection.

FAQ

If you have problems when using the camera, please refer to the following form.
If it still can not solve your problem, please contact our authorized technicians.

Problems	Solutions
No Image Display on the Screen	• Check if the video output (BNC) of the camera was connected to the? video in? (BNC) of the Monitor properly. • Check if you selected the correct displaying channel of the monitor. • Check if the power input (DC jack) of the camera is disconnected to the power source. • Check if the video output (BNC) of the camera is disconnected to the video input of the monitor.
Blurry Screen Image	• Lens has dirt? Please use a soft, clean cloth to clean the lens. • Please set the monitor in the correct state. • If the camera is in strong light, please change the position of the camera. • Adjust focal length of the lens appropriately.
Dark Screen Image	• Adjust contrast of the monitor. • If you use the intermediate device, please set up 75Ω/Hi-Z correctly.
Camera does not work properly and the surface of the camera overheats	• Check whether the appropriate power supply is properly connected to the camera or not.
Flashing Screen Image	• The camera is directly towards the sunshine or fluorescent light? Please change the position of the camera.

Specification

	Color super hi-resolution camera					Color camera		
Image Sensor	1/3″ SONY EXVIEW CCD		1/3″ SONY SUPER HAD Ⅱ CCD			1/3″ SONY SUPER HADⅡ CCD		1/4″ SONY CCD
Effective pixels	PAL:1020(H)X596(V) NTSC:1020(H)X508(V)		PAL:752(H)X582(V) NTSC:768(H)X494(V)			PAL:500(H)X582(V) NTSC:510(H)X492(V)		
Sensor area	4.9mmX3.7mm					3.6mmX2.7mm		
Signal system	PAL/NTSC							
Horizontal resolution	700TVL	650TVL	630TVL	600TVL	550TVL	450TVL	420TVL	420TVL
Minimum illumination	0.001Lux/F1.2					0.1Lux/F1.2		
Electronic shutter	Auto:1/50(1/60)-1/100,000Sec							
S/N ratio	>48dB							
Gamma	0.45							
Lens	C/CS							
Video output	1.0Vp-p,75Ω							
Power supply	DC 12V ± 10%							
Power consumption	less than 1.5W							
Operating temperature	-10℃ ~ +50℃							

Specifications are subject to change without notice