

Square Digital 3X Zoom Color Camera

OPERATION MANUAL



Thank you for choosing our high quality camera.
Before attempting to connect or operate, please read and follow these instructions.

PRECAUTIONS

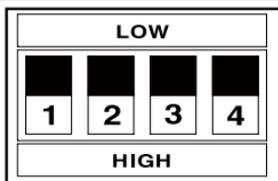
A regulated DC12V power supply is recommended for use with this camera for the best picture and most stable operation. An unregulated power supply can cause damage to the camera. It is recommend that camera is used with a monitor that has a standard 75 ohms video impedance level. If your monitor is switched to high impedance then please adjust accordingly. Do not attempt to disassemble the camera to gain access to the internal components. Refer servicing to your dealer. Never face the camera toward the sun or bright or reflective light which may cause a smear on the picture and possible damage to the CCD.

SPECIFICATIONS

Signal Format	NTSC	PAL
Image Device	1/3" Sony Super HAD CCD	
Scanning System	2 : 1 Interlace	
H.Resolution	520TV Lines	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(H)	752(H) x 582(V)
Electronic Shutter Speed	1/60-1/50,000 sec	1/50-1/50,000 sec
S/N Ratio	More than 50dB(AGC Off)	
Gamma	r =0.45	
Sensitivity	1.5Lux @ F2.0 (30 IRE, AGC MAX, DAY & NIGHT ON))	
Sync System	Internal	
Video Output	1.0 Vp-p Composite 75(Ω) unbalanced	
Current consumption	A/D Key type : 150mA or Less / RS-485 type : 180mA or Less	
Input Power Source	DC 12V \pm 10%	
Operating Temperature	-10 $^{\circ}$ C ~ +50 $^{\circ}$ C	
Board Lens	f3.6mm(Standard)	
Pinhole Lens	Cone Pinhole f3.7mm(Standard), Super Cone Pinhole f4.3mm(Standard)	
Varifocal Lens	Varifocal f4.0~8.0mm	
Remote Control	A/D Key(Bright, DAY & NIGHT ON/OFF)	
Functions Option	RS-485 Cable, 3X Zoom(Max)	
Dimension	38mm(H) * 38mm(V)	

*Note 1 : When using the DC LEVEL, use the RS-485

S/W ASSIGNMET

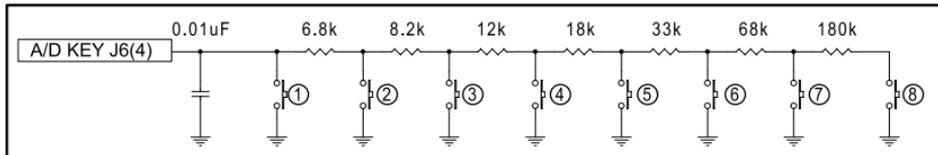


*Note 2 : When using A/D KEY and RS-485, must put DIP S/W with all LOW

Pin No.	LOW	HIGH
1	E/S	ALC
2	AGC MIN	AGC MAX

Pin No.	3	4	FUNCTION
	LOW	LOW	Digital Zoom X1
	HIGH	LOW	Digital Zoom X2
	LOW	HIGH	Digital Zoom X3
	HIGH	HIGH	Digital Zoom Auto (X1~X2~X3)

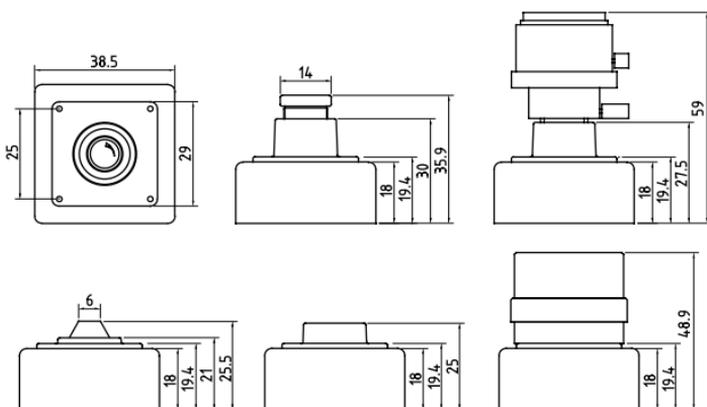
AD KEY FUNCTION



A/D KEY No.	FUNCTION	A/D KEY No.	FUNCTION
1	TELE	5	TILT UP
2	WIDE	6	TILT DOWN
3	PAN LEFT	7	AGC ON / OFF
4	PAN RIGHT	8	BLACK / WHITE

DIMENSIONS

Unit : mm



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note - This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / tv technician for help.

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

CAUTION

1. A regulated DC12V 300mA power supply is recommended for use with this camera for the best picture and the most stable operation.
An unregulated power supply can cause damage to the camera. When unregulated power supply is applied, product warranty will be out of subject.
2. It is recommended that the camera is used with a monitor that has a CCTV quality 75 video impedance level.
If your monitor is switched to high impedance then please adjust accordingly.
3. Do not attempt to disassemble the camera to gain access to the internal components. Refer servicing to your dealer.
4. Never face the camera towards the sun or any bright or reflective light, which may cause smear on the picture and possible damage to the CCD.
5. Do not remove the serial sticker for the warranty service.