

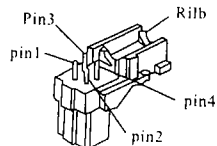
### (8) Power Indicator

This indicator light up when the power of camera is on.

### (9) Power Input adaptor

Connect the power source.

## 7. AUTO IRIS CONTROL CONNRCTOR



PIN	VIDEO DRIVE	DC DRIVE(Direct DRIVE)
1	VDC OUT	DAMP-
2	IRIS OUT	DAMP+
3	N.C.	DRIVE+
4	GND	DRIVE

## 8. PACKING

- 1 Camera
- 1 L Wrench
- 1 Connector 4Pins for Auto Iris Lens
- 1 Instruction Manual

## 9. SPECIFICATIONS

Product Type	Color Digital Camera			
Image Sensor	1/3" Sony CCD		1/3" Sony HQ1 CCD	1/4" Sony CCD
Effective Pixels	512(H) ×492(V)	768(H) ×494(V)	811(H) ×508(V)	512(H) ×492(V)
Signal System	NTSC			
Video out	1.0V[p-p], 75Ω/BNC			
Horizontal Resolution	420 TV Lines	480 TV Lines	550 TV Lines	420 TV Lines
S/N Ratio	more than 48db			
Minimum lux.	1.0Lux/F1.2			
	0.1Lux/F1.2			
Shutter Speed	1/50(1/60)-1/100,000 sec			
Lens Mount	CS/C Mount(C Mount adaptor option)			
Power Input	DC12V			
	DC12V & AC24V			
Operating Temp.	-10°C to 50°C (14°F to 122°F)			

# DSP CCD Professional Camera

# INSTRUCTION MANUAL

## About this manual

Before installing and using the camera, please read this manual carefully. Be sure to keep it for later reference.

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## 1. DESCRIPTION

\*Thanks for purchasing our product.

This camera use high sensitive Super HAD 1/3" or 1/4" interline transfer CCD image Sensor (CCD = Charge Coupled Device), and employs

Digital Signal Processor (DSP) chip-set for image control, and all integrated state circuitry which provide extremely long life and high reliability. This Camera offers excellent image quality with low lag and high burn resistance, and is not subject to distortions from magnetic fields.

## 2. MAIN FEATURES

- ◇ Color camera with 1/3" or 1/4" Super Had CCD sensor in metal case.
- ◇ Pixel number: 380K for high resolution models, 270K for normal resolution models.
- ◇ High sensitivity, low smear, high anti-blooming, and high S/N ratio.
- ◇ Powerful functions: Auto Electronic Shutter (ELC), Auto Iris (ALC), Auto Gain Control (AGC), Auto White Balance (AWB), Back Light Compensation (BLC).
- ◇ Supports Auto Iris Lens: both Video-Drive & DC-Drive lens.
- ◇ Supports both C and CS mount lens.
- ◇ Built-in anti-aliasing and IR-cut optical filter.
- ◇ Optional Audio function.

## 3. CAUTIONS ON HANDLING

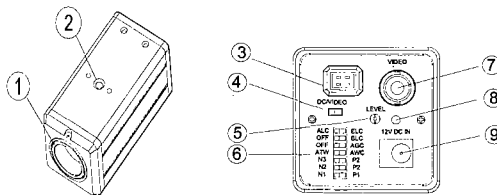
- (1) Be careful, never let any water go inside this equipment.
- (2) Please do not directly touch the CCD element. If necessary, use soft cloth moistened with alcohol to wipe off the dust.
- (3) When any abnormal occurs make sure to

unplug the unit and contact your local dealer.

## 4. CAUTIONS ON INSTALLATION

- (1) Please be extra careful not to shake the camera.
- (2) Please avoid places where there is direct sunlight.
- (3) When using this camera in places where the lighting differs, greatly, please use the Auto Iris Lens with ND Filter.
- (4) Please avoid places where temperatures exceed 50 °C or more, high humidity or where direct rain drops.
- (5) Please avoid places where frequent vibrations or shocks.
- (6) If during the night, the minimum brightness of 0.1 Lux can not be achieved, install appropriate light fixtures.
- (7) When the camera is not used, keep the Lens or the Lens cap attached to protect the CCD sensor.

## 5. DIAGRAM OF EACH PART



## 6. FUNCTION OF EACH PART

- (1) Back focal adjusting ring.

- (2) Screw hole for mount.

- (3) Auto Iris Lens adaptor

When using an Auto Iris Lens, the Switch-1 should be in position ALC to disable ELC function. Before plug the enclosed miniature 4 pins to Auto Iris Connector, please check the type of Auto Iris Lens, and also the compatibility of the polarities.

If the Auto Iris Lens is DC Drive (or Direct Drive), the Switch ④ should be in position DC. Adjust the LEVEL with the VR to proper level.

If the Auto Iris Lens is VIDEO Drive, the Switch ④ should be in position VIDEO.

When using Manual Iris Lens, the Switch-1 is selectable depend on application environment.

- (4) DC Drive or VIDEO Drive lens select switch.

- (5) DC drive lens voltage adjusting knob.

- (6) Setting switch

1. ALC/ELC

Select Auto Light Control (ALC)/Electronic Light Control.

2. BLC ON/OFF

Select Black Light Compensation ON/OFF.

3. AGC ON/OFF

Select Auto Gain Control ON/OFF.

4. AWC/ATW

Select White Balance Mode

Auto Trace White Balance (ATW)

Auto White Balance (AWC)

5. LL/INT

Select Internal Sync (INT) or Line-Lock (LL).

- (7) Video Out adaptor

Connect coaxial cable