

REGULAR CAMERA USER MANUAL

960H Ultra Resolution Series



It's recommended to use this camera with a DVR which supports 960H video recording.

Please read the instructions thoroughly before using the product.

FEATURES

1. 1/3" HR Color CCD
2. 700 TVL superior image quality
3. Further camera parameters configuration via its own OSD
4. Multilingual on-screen display menu in 4 languages (English / French / Portuguese / Spanish)
5. Built-in microphone for audio recording

PACKAGE CONTENT

- Camera x 1
- User manual x 1
- Wrench x 1

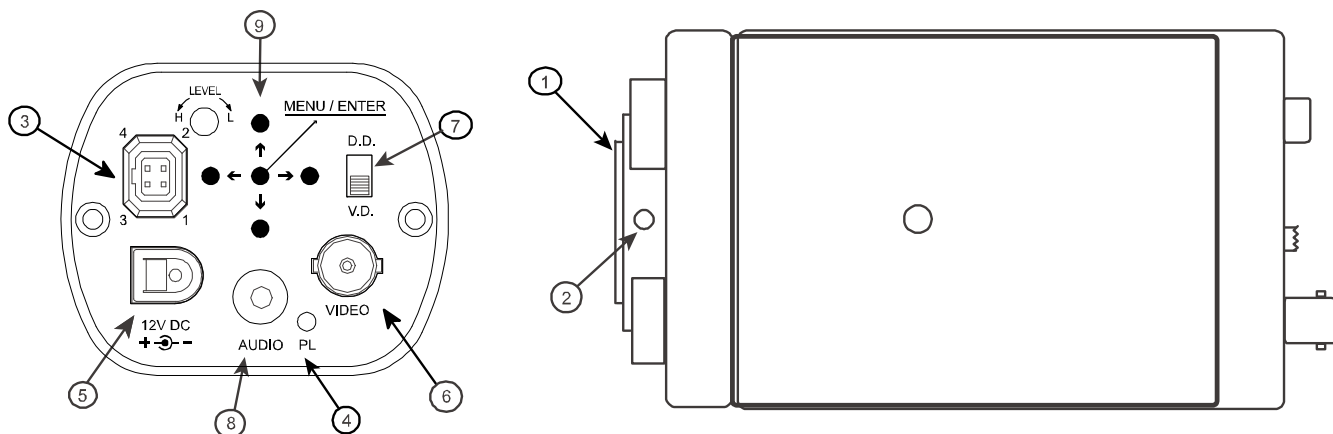
SPECIFICATION*

Pick up Element	1/3" HR color CCD image sensor
Number of Pixel	976(H) x 494(V) <NTSC> / 976(H) x 582(V) <PAL>
Resolution	700 TVL
Minimum Illumination	0.1 Lux / F2.0
S/N Ratio	More than 48dB (AGC off)
Electronic Shutter	AUTO: 1/50 (60) to 1/100,000 sec. MANUAL: 1/50(60), FL 1/120(100), 1/250, 1/500, 1/1,000, 1/2,000, 1/5,000, 1/10,000, 1/20,000, 1/50,000, 1/100,000 sec.
Lens Mount	CS Mount
IRIS Mode	AES / VD / DD
White Balance	Auto / Fixed
Gain Control	AGC adjustable / Fixed
Sharpness	Adjustable
BLC	ON / OFF
Digital WDR	YES
Video Output	1.0 Vp-p composite, 75Ω
Microphone	Built-in
Power Source (±10%)	DC 12V
Current Consumption(±10%)	70mA
Dimensions (mm)**	117(L) x 60(W) x 50(H)

* The specifications are subject to change without notice.

** Dimensional Tolerance: ± 5mm

MAJOR OPERATING CONTROL AND FUNCTIONS



1. Flange Back Adjusting Ring

It is suitable for CS-mount lens. When using C-mount lens, please use the **CS-C conversion ring***.

2. Back Focal Lock Hexagonal Bolt

The camera is set at the standard back focal position. Fine-tuning is inevitable according to the lens types. Adjust the lens back-focus by turning the focusing knob.

3. Auto Iris Lens Connector

Supplies power and controls signals to an Auto Iris Lens.

4. Power LED Indicator

The Power LED Indicator indicates normal status during operation.

5. Power Input Terminal

■ For connecting to DC12V regulated power supply.

6. Video Output Connector (VIDEO OUT)

For connecting to CCTV monitor video input with coaxial cable.

7. V.D. / D.D. selectable

When using Auto Iris Lens, select Video Drive or Direct Drive depend on the type of lens you used.

8. Audio Output Connector (AUDIO OUT)

Connect to the AUDIO IN connector of the recording device.

9. OSD Menu Selection

For more details, please refer to "CAMERA PARAMETERS".

INSTALLATION

*** It is recommended to have the following installation done by the qualified service personnel or system installer. ***

1. Mount a lens onto the camera (By turning it clockwise).

It is suitable for CS-mount lens.

But if the lens you chose is C-mount, please use the **CS-C conversion ring*** to connect the C-mount lens and the camera.

2. Switch the lens selection depending on the lens you used.

* **Auto iris lens:**

V.D. / D.D.: Select VD or DD depend on the type of lens you used.

3. Connect the camera VIDEO output and the monitor video input with a 75Ω coaxial cable.

4. Connect the camera AUDIO output and the monitor audio input with a coaxial cable.

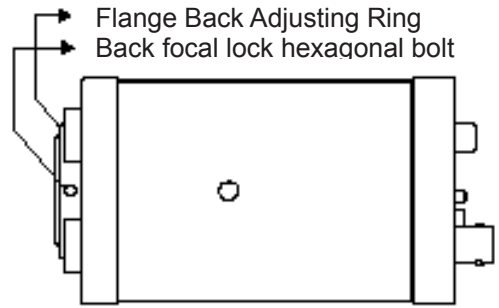
5. Connect the POWER terminal of the camera to a right power supply.

6. Adjust the focus or flange-back (Please refer to NOTE for adjustment instructions).

* The CS-C conversion ring is not supplied in the sales package and needs to be purchased separately.

NOTE: Focus or Flange-Back Ring Adjustment

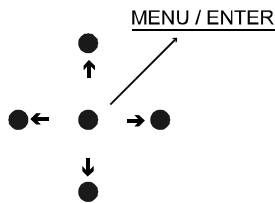
1. Mount the lens by turning it clockwise on the lens mount of the camera.
2. Loosen the screws on the flange-back adjusting ring.
3. Turn the flange-back adjusting ring to the desired position.
4. Tighten the screws on the flange-back adjusting ring.

**PRECAUTIONS**

- ★ Do not install the camera in an environment where the humidity or temperature is high
- ★ Do not install the camera under the unstable lighting condition
- ★ Do not expose the camera to rain or moisture
- ★ Do not keep the camera face to strong light directly
- ★ Do not touch the front glass of the camera
- ★ Do not use other than specified power source
- ★ Do not disassemble the camera

CAMERA PARAMETERS

There are five buttons on the camera rear panel for users to further configure camera parameters.



If you want to ...	Press ...
Enter the camera configuration menu	MENU
Move to the sub-menu you want	↑ / ↓
Change setting	← / →
Enter the configuration page of an option	ENTER

Menu Tree

For options with ↵, press the button “↵” (Enter) to enter their respective setting pages.

SUB-MENU	OPTIONS		REMARK
LANGUAGE	LANGUAGE	ENGLISH / PORTUGUÊS / ESPAÑOL / FRANCÊS	
	OSD COLOR	WHITE / YELLOW / CYAN / GREEN / MAGENTA / RED / BLUE / BLACK	
CAMERA ID	ID SET (POSITION)	OFF / TOP / BOTTOM	
	ID NO		
EXPOSURE	LENS	MANUAL / DC	
	BLC	OFF / PAT 1 / PAT2	
	GAIN CONTROL	AUTO-H / AUTO-M / AUTO-L / -3 ~ 36dB	
	SHUTTER (1/N)	AUTO / 60(50) / 100(120) / 250 / 500 / 1000 / 2000 / 5000 / 10000 / 20000 / 50000 / 100000	
IMAGE	BRIGHTNESS		
	CONTRAST		
	CHROMA GAIN		
	SHARPNESS		
	NOISE REDUCTION	ON / OFF	
	WHITE BALANCE		

SUB-MENU	OPTIONS		REMARK
FUNCTION	MIRROR	ON / OFF	
	FLICKERLESS	ON / OFF	
	DAY NIGHT		Not available
	BLEMISH COMP		
	D-WDR	ON / OFF	
	HLC	ON / OFF	
	WINDOW		Not available
PRIVACY MASK	MASK NUMBER	1 ~ 8	
	MASK TYPE	OFF / FULL / HALF	
	MASK SET		
	COLOR	1 ~ 8	
MOTION DETECT	MOTION DETECT		Not available
	ALERT (TIME)		
	SENSITIVITY		
	PIN OUTPUT		
	DISPLAY		
	COLOR		
	IGNORE AREA		



CAUTION

RISK OF ELECTRIC SHOCK



CAUTION:

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture.

Only operate this apparatus from the type of power source indicated on the label.

The company shall not be liable for any damages arising out of any improper use, even if we have been advised of the possibility of such damages.



The lightning flash with arrowhead symbol, within an equilateral triangle, 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.



This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



ROHS Announcement

All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste.



CE Mark

This apparatus is manufactured to comply with the radio interference.

The company does not warrant that this manual will be uninterrupted or error-free. We reserve the right to revise or remove any content in this manual at any time.