



# Instruction Manual

## Digital Colour IR Camera

### 776-9361



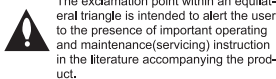
# OWNER'S MANUAL

## How to use CCTV camera



**CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER(OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

This 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.



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

**FCC WARNING :** This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

A suitable conduit entries, knock-outs or glands shall be provided in the cable entries of this product in the end user.

Caution: Danger of explosion if battery is incorrectly replaced. Replaced only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Holes in metal, through which insulated wires pass, shall have smooth well rounded surfaces or shall be provided with brushings.

**WARNING :** Do not install this equipment in a confined space such as a bookcase or similar unit. **WARNING :** Wiring methods shall be in accordance with the National Electric Code, ANSI/NFPA 70

**WARNING :** This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

**WARNING :** To reduce a risk of fire or electric shock, do not expose this product to rain or moisture. **Caution :** This installation should be made by a qualified service person and should conform to all local codes.

**Caution :** To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

**Caution :** The apparatus should not be exposed to water(dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.



#### Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.



This product is manufactured to comply with the EMC DIRECTIVE 2004/108/EC and 2006/95/EC.

To disconnect power from the mains, pull out the mains cord plug. When install the product, ensure that the plug is easily accessible.

### Important Safety Instructions

1. Read these instructions. - All These safety and operating instructions should be read before the product is operated.
2. Keep these instructions. - The safety, operating and use instructions should be retained for future reference.
3. Heed all warnings. - All warnings on the product and in the operating instructions should be adhered to.



13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

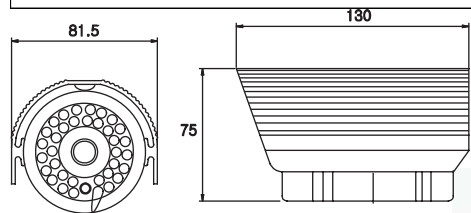


# DIGITAL COLOR VARIFOCAL IR LED CAMERA

# 776-9361

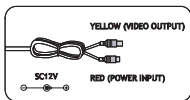
### CAUTION

- Do not open or strike this equipment. Sensitive electronics inside are vulnerable to excessive shock.
- Do not install the equipment near any naked flames or heat sources. Excessive heat could damage this unit.
- Do not cover cloth or to install this unit in poorly ventilated places. This may lead to overheating.
- Do not continue to operate if there appears to be fault.
- If the unit ceases to function, contact qualified service personnel for help.
- Do not touch the power connection with wet hands. Risk of short circuit or electric shock.
- Do not damage the power cord or leave it under pressure. Risk of fire or shock circuit.



### FEATURE

- 1/3" COLOR SONY SUPER HAD II CCD
- HIGH RESOLUTION (70Φ, 34LEDS)
- 700TV Line
- Min. Illumination : 0 Lux (IR ON)
- OSD Control-ATR/BLC/HSBLC
- 2.8-12mm DC IRIS LENS
- Power Source : DC 12V(6.5-28V)
- Internal Adjustment OSD button
- Service Video Connector
- Weather-proof, IP 67



SPECIFICATION		NTSC	PAL
<b>Image Device</b>		1/3" SONY 960H SUPER HAD II CCD	
<b>Picture Elements</b>		1020(H)×508(V)	1020(H)×596(V)
<b>Scanning System</b>		2:1 Interlace	
<b>Sync System</b>		Internal Synchronization	
<b>Horizontal Resolution</b>		700 TV Line	
<b>Video Output</b>		1Vp-p 75Ω	
<b>S/N Ratio</b>		MORE THAN 50dB (AGC Off)	
<b>LENS</b>		2.8 ~ 12mm Varifocal Lens, DC IRIS	
<b>Minimum Illumination</b>		0.1Lux(Day), 0.005Lux(Night) (F:1.2)	
<b>OSD FUNCTIONs</b>	<b>White Balance</b>	ATW(1800°K ~ 10,500°K) / Push / User1 / User2 / Anti CR / Manual / Push-Lock	
	<b>Exposure</b>	ELC / ALC	
	<b>Shutter Speed</b>	Auto / Manual (1/60-1/10,000sec)	Auto / Manual (1/50-1/10,000sec)
	<b>Backlight Compensation</b>	ATR / BLC / HLC	
	<b>Privacy Masking</b>	8 Zone	
	<b>Day &amp; Night</b>	Auto / Color / BW / EXT1 / EXT2	
	<b>Motion Detection</b>	Off / On	
	<b>2D-DNR</b>	Off / On (Adjustable)	
	<b>Digital Effect</b>	Off / Mirror	
	<b>Sharpness</b>	Adjustable	
	<b>Power Consumption</b>	DC12(6.5V~28V)/ 300mA(IR on)	
	<b>Operation Temperature</b>	10 °C~ + 50 °C, RH95% Max (14°F~122°F)	
<b>Storage Temperature</b>	20 °C~ + 60 °C, RH95% Max		
<b>Weight</b>	Approx 695 g		
<b>Housing</b>	ALUMINUM		
<b>Dimension(mm)</b>	70Φ, 34LEDS		
<b>Cable(option)</b>	Standard 1200mm BNC/DC Jack		

# OWNER'S MANUAL

## How to use Bullet camera 776-9361

### Before Using or Installing

Please do not make any attempt to disassemble the camera. To avoid any electrical shock, Please do not remove camera cover & screw. Please consult with Installation specialist since there is no user execution. Please do not use strong chemicals or detergent. Use dry towel to wipe off the camera, to clean off the stain use weak Cleaning detergent. Before operation please check the temperature, humidity, and level of the power. Please operate camera between temperature levels of -10°C ~ 50°C. Please do not disclose the camera, if there is lot of smoke or gas. Please do not aim camera directly at bright object. By doing so, this action will cause blooming or smear. Please handle camera with care. Do not put camera near fire, as this may cause fire. Please do not hit, or shake the camera. This could cause camera to malfunction. Improper care or use of the camera could damage the camera. Please do not make children handle or operate camera. It may cause children's accidents or camera's malfunction.

### How to Use & Installations & Warnings

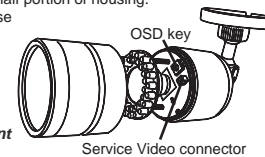
Use of DC12V. ( Please use Adapter 500mA for DC12V). Please use dry towel to clean camera instead of the abrasive. (This could bring low quality screen view of camera) Please do not misplace the camera. And prevent any malfunction. Please do not use camera in humid or wet area. Do not disclose camera to direct sunlight. Do not expose camera to massive electric wave. Do not install camera location with lot of vibration. Do not install product near very high temperature or very low temperature area. (Please refer to our operation manual on operation temperature & storage temperature) Do not attempt to open dome cover after installation and image adjustment

#### \* INSTALLING THE CAMERA

- Station Bracket on the wall or ceiling with the screw give to your desire area.
- Loosen up the joint on the bracket using "L" wrench and set bracket to the direction you want to monitor and tighten it
- Fix Sunshield on this camera.

#### \* How to adjust OSD key for OSD menu

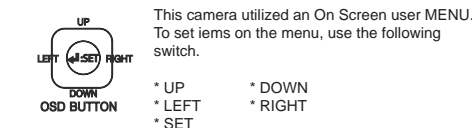
- Open camera case at half portion of housing. You can use Service video connector with portable monitor to configure the setting easily



\* After configuration close the case tightly to prevent any water-smear.

### OSD MENU TREE

1Level	2Level	3Level
CAMERA ID	ON / OFF	
SHUTTER/AGC	AUTO	HIGH LUMINANCE
	MANUAL	LOW LUMINANCE
BACKLIGHT	OFF / BLC / HLC	MODE / SHUTTER / AGC
WHITE BAL	ATW	SPEED/DELAY /ATR FRAME/ENVIRONMENT RETURN
	PUSH	
	USER1	B-GAIN / R-GAIN : 0-255
	USER2	B-GAIN / R-GAIN : 0-255
	ANTI CR	
DAY&NIGHT	MANUAL	LEVEL (024-127)
	PUSH LOCK	
MOTION DET	AUTO	BURST/DELAY CNT /DAY-NIGHT/NIGHT-DAY
	COLOR	
	B / W	BURST/IR OPTIMIZER/MODE/LEVEL
	EXT1	
	EXT2	
NR	OFF	
	ON	DETECT SENSE/BLOCK DISP/ MONITOR AREA/AREA SEL /SENSITIVITY
ATR	OFF	TOP/BOTTOM/LEFT/RIGHT
	ON	NR MODE / Y LEVEL / C LEVEL
PRIVACY	OFF	
	ON	LUMINANCE / CONTRAST
PIC ADJUST		AREA/BOTTOM/RIGHT/COLOR /TRANSP/MOSAIC
LANGUAGE		MIRROR/CONTRAST/SHARPNESS/HUE/GAIN
CAMERA RESET		ENGLISH / JP / DEUTSCH / FRANCAIS / RUA / PORTUGUES / ESPANOL
	EXIT	SAVE ALL



### Trouble Shooting

- This camera utilized an On Screen user MENU. To set items on the menu, use the following switch.
- \* UP
  - \* DOWN
  - \* LEFT
  - \* RIGHT
  - \* SET
- If you are not able to view anything from the screen.
- \* Check power, video, strength of signal. & Monitor input/output.
  - \* Check cameras connection No with monitor/ FOR FUZZY SCREEN
  - \* Check camera lens for dust or dirt. If so wipe them of with dry towel or brush
  - \* Check for direct sunlight exposure towards camera.
  - \* Check if protection film from camera cover is removed FOR DARK SCREEN
  - \* Check for monitor brightness. Unbalanced black & white on it.
  - \* Check Monitor
  - \* Adjust the camera position or angle of lens when screen is bright if problem still remains please contact our technical supporter.

