

VITEK

INDUSTRIAL VIDEO PRODUCTS, INC.

VTC-IRV30/2810

Day/Night IR Bullet Camera w/100' Range



- 1/3" Sony Super HAD II High Resolution Color CCD
- 550 TV Lines of Resolution
- 2.8~10mm / F1.2 Varifocal Auto Iris Lens
- 30 - 850nm IR LEDs with 100' Range
- 0 Lux Operation (IR LEDs On)
- IP-66 Rated Water Resistance
- Heavy Duty Mount with Cable Feed Through
- 12VDC/24VAC Dual Voltage Operation



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WARNING

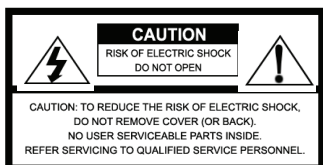
To prevent fire or shock hazard, do not expose the unit to rain or moisture.



The symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the unit.



The symbol 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.



Caution

To prevent electric shocks and risk of fire hazards, do NOT use other than specific power source.

Warning(NTSC version) -- 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 may cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

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.

1. Safety instructions, cleaning and Notes

- Please read these safety and operating instructions before placing the camera into operation.
- Keep the manual in a safe place for later reference.
- Pay attention to safety when laying the connection cable and observe that the cable is not subjected to heavy loads, kinks or damage and that no moisture can penetrate.
- The unit may only be opened by authorized personnel.
- Never open the device and expose boards or lens. If repairs are undertaken by unauthorized persons the Warranty will be void. If maintenance or repair is required, please call an authorized service center.
- Use only a mild detergent to clean the housing.
- Keep the window surface clean from the dirt or dust, which may reflect the infrared light into the lens at night.

2. General Descriptions and Features

2-1. General Descriptions

This equipment is a weatherproof Day/Night color bullet camera with Sony Super HAD II Color CCD image sensor.

Including 30pcs LED,

- Possible to observe where no illumination is available at night.
- Up to 35Meters (100+') for outdoor night observation distance.

Aluminum housing,

- Vandal Resistant Camera can be protected from a harsh environment.

Sunshield

- Camera can be protected from overheating in strong sun light.

With Hidden cable-through function

- Cable can be protected from vandalism
- Ease of installation

Dual Voltage 24VAC/12VDC power design,

- Offers flexibility of installation
- Ensures reliability
- Polarity free connection for power is allowed limiting the risk of short

2-2. Features

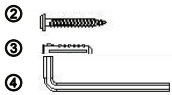
- 1/3" Super HAD II Color CCD
- Resolution of 550TVL (day-time), 600TVL (night-time)
- Outdoor bullet style camera with Sunshield
- Enhanced sharpness compensation
- 0.05Lux light sensitivity
- Built-in Vari-focal Auto iris lens(2.8~10mm)
- Waterproof (IP66)
- Simple Focus adjustment
- Supply voltage: 24Vac or 12Vdc
- Hidden cable-through function

3. Specifications

	Description
Image Device	1/3" Sony SuperHAD II Color CCD
Effective Pixels	768 x 494 (NTSC) / 752 x 582 (PAL)
Resolution	550TVL (Day) / 600TVL (Night)
Sensitivity	0.05Lux(F1.2@40IRE), 0Lux with built-in 30 Infrared LEDs
S/N ratio	More than 50dB with AGC off at 50IRE
Electronic Iris	1/60 – 1/100,000sec (NTSC) 1/50 – 1/100,000sec (PAL)
White Balance	3,000°K – 8,000°K Automatic tracking
BLC	Built-in, Factory set to ON
Video Output	VBS 1.0Vpp +/-10%, 75ohm
Built-in Lens	1/3" Vari-Focal, f=2.8-10.0mm, F1.2, DC Auto Iris
Infrared LEDs	30pcs @ 850nm
IR Distance	35M (110')
Operation Power	24Vac(20~28.8Vac) or 12Vdc (11.5~30Vdc), 5Watts max
Cable length	5' (1.5M)
Operating Conditions	14 – 122 degrees F (-10°C - +50°C), 85% RH Max. (non-condensing)
Dimensions (Dia. x H)	2.68" x 8.66" (68mm x 220mm)
Net Weight	1.21 lbs (550g)

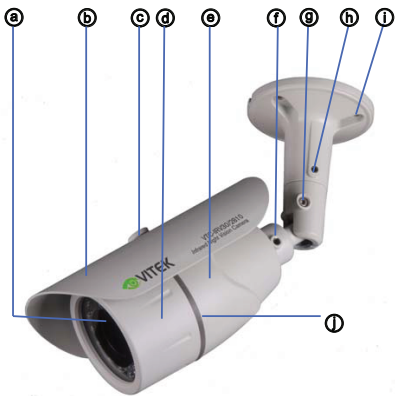
4. Supplied Items

- ① 1 x Weatherproof D/N Bullet Camera
- ② 3 x Mounting screws
- ③ 3 x anchors
- ④ 1 x 2.5mm L-Wrench
- ⑤ 1 x Installation and Operating Instructions



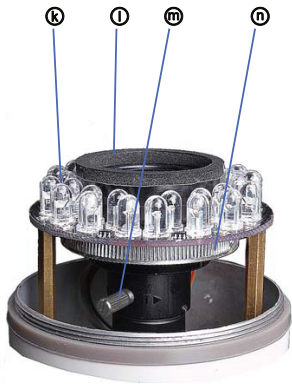
5. Control and Part names

5-1. External



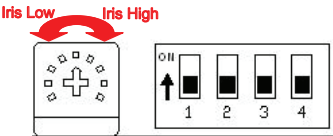
- Ⓐ Window
- Ⓑ Sunshield
- Ⓒ Lock screw for Sunshield
- Ⓓ Front cover
- Ⓔ Body
- Ⓕ Locking screw for radius
- Ⓖ Locking screw for Tilt-direction
- Ⓗ Locking screw for Pan-direction
- Ⓘ Mounting Base
- Ⓚ Rubber seal

5-2. Internal



- Ⓚ Infrared LEDs (X30)
- Ⓛ Lens Hood
- Ⓜ Zoom adjustment knob
- Ⓝ Focus adjustment ring

5-3. Iris adjustment and Function switches on the Board.




S/W	Function	Default	ON	OFF
1	ELC	OFF	ELC mode. Linear electronic shutter is operating.	ALC Mode. Set to OFF for auto iris lens function.
2	BLC	OFF	Back light compensation is enabled and operating automatically.	Back light compensation is disabled.
3	FL	OFF	Flickerless mode ON. Electronic shutter is fixed to 1/100sec (NTSC).	Flickerless mode OFF. Electronic shutter mode follows ELC/ALC.
4	N/A	OFF	N/A	N/A

6. Installation

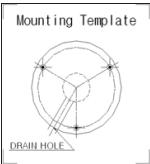
- Make sure the power is removed before installation.

6-1. Procedure of installation

- 1) Locate at the installation position and drill 3 holes for  Mount base on the wall.
Use MOUNTING TEMPLATE printed on the bottom of the inner packing material as shown in below drawing.

- 2) Route the power/ video cable from the camera to the monitor location and power outlet.

Care should be taken not to damage, kink or expose the cable to a hazardous environment.



- 3) Place camera on a pre-drilled position and fix it by using ② Mounting screws.



- 4) Adjust the camera direction as in below steps.

Direction I: Adjust the camera direction with ⑥ screw for Pan-direction.

Direction II: Adjust the camera direction with ⑨ screw for Tilt-direction.

Direction III: Adjust the camera direction with ⑦ screw for radius.

6-2. Setup of ZOOM and FOCUS

• Adjust zoom and focus in order.

- 1) Open ④ Front cover for adjustment.
- 2) Place the separated ④ Front cover in a safe place away from water & dust.
- 3) Turn ⑩ Zoom knob CCW slightly to unlock the knob.
- 4) Adjust ⑩ Zoom knob to set the zoom or field of view. (Wide ↔ Tele)
- 5) Turn ⑩ Zoom knob CW slightly to lock the knob.
- 6) Using your thumb and index finger, turn ⑪ Focus ring to set the focus. (Far ↔ Near)
- 7) Close and tighten ④ Front cover. (See CAUTION below)



*** IMPORTANT TIP for proper focus adjustment**

Step 1. Turn Iris Level adjustment VR clockwise to max position.

Step 2. Set ELC switch to ON at DIP switches.

Step 3. Adjust zoom knob and focus ring of lens.

Step 4. Set ELC switch to OFF at DIP switches.

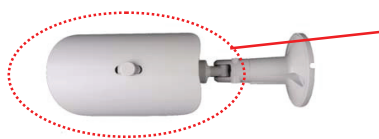


CAUTION

When assembling @Front cover, be sure that ①Rubber sealing is not protrusive. If @Front cover is tightened excessively, sealing may not be ensured.

6-3. Sunshield

Camera can be protected from the heat of strong sun light by its Sun shield. Sunshield must be tightened to the body to avoid detaching by wind.



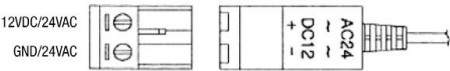
When the sunshield is properly installed on the Camera body the @Lock screw for Sunshield should be located in the center of the screw hole.

The sunshield may be adjusted back or forth according to the wide or telephoto position of the lens.

If shades by the sunshield are seen on the image you may reverse the sunshield direction backside to front.

6-4. Power connector

Camera can be operated with either 24VAC or 12VDC.
Polarity free connection is acceptable, but follow the indication if possible.

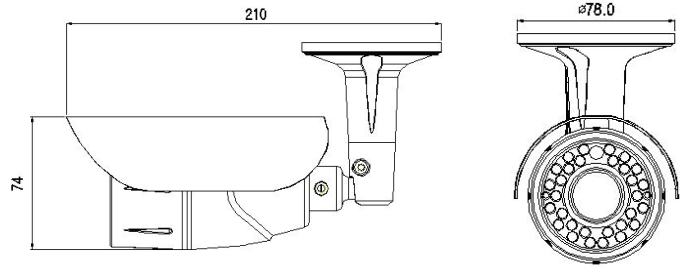


6-5. Powering sequence

Make sure the power is removed before the installation.
Follow the order for applying power.
Connect the low voltage section (12VDC or 24VAC) first then plug the AC adapter into the AC outlet to avoid an improper reset from power jitter and damage from the surge voltage after load.

7. Dimensional Drawings

(Units in mm)





LIMITED LIABILITY WARRANTY

Your new Camera is guaranteed to be free from defects in materials and workmanship for a period of three years from the date of purchase.

The product must have been used only for its intended purpose, and not been subjected to damage by misuse, willful or accidental damage, caused by excessive voltage or lightning.

The product must not have been tampered with in any way then the guarantee will be considered null and void.

This guarantee does not affect your statutory rights.

Contact an Authorized VITEK reseller for all servicing needs.



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