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Model : VRD6504IR□  
VRD6504IR/CR□

## **True Day/Night Vandal Resistant IR Dome Camera**

**Instruction Guide**

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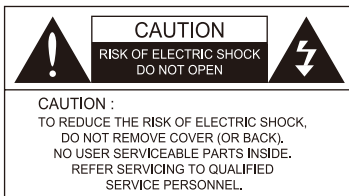


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The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric 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) instructions in the literature accompanying the appliance.

**INFORMATION** - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules & CE 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.

**WARNING** - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

**CAUTION** : To prevent electric shock and risk of fire hazards:

- ◆ Do NOT use power sources other than those specified.

This installation should be made by a qualified service person and should conform to all local codes.

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### **Horizontal Resolution of 630 TV Lines**

Clear image quality has been achieved by employing a High resolution IT CCD with 437,664(effective) pixels, which provides a horizontal resolution of 630 TV lines

### **Controlled by OSD Menu**

The camera functions are controlled by selecting text displayed on the monitor screen.

### **Electronics IRIS**

The electronic IRIS function enables continuous automatic control of the shutter between 1/50~1/100,000 seconds.

### **High Sensitivity**

The Built-in high sensitivity High resolution IT CCD enables a clear image even at 0 Lux for Infrared Lighting Conditions

### **3 Axis built-in Vandal Resistant Dome Housing**

### **Weather Proof (IP66)**

## ■ Warnings

**The camera requires periodic inspection.**

Contact an authorised technician to carry out the inspection.

**Stop using your camera when you find it malfunctioning.**

If the camera emits smoke or is unusually hot for a long period, a fire may be caused.

**Do not install the camera on a surface that can not support it.**

If the camera is installed on an inappropriate surface, it may fall and cause injury.

**Do not hold plug with wet hands.**

It could cause an electric shock.

**Do not dis-assemble the camera.**

It may result in an electric shock or other hazards.

**Do not use the camera close to a gas or oil leak.**

It may result in a fire or other hazards.

## Precautions ■

**Do not install the camera in extreme temperature conditions.**



Only use the camera under conditions where temperatures are between  $-10^{\circ}\text{C}$  and  $+50^{\circ}\text{C}$ . Be especially careful to provide ventilation when operating under high temperatures.

**Do not install or use the camera in an environment where the humidity is high.**



It can cause the image quality to be poor.

**Do not install the camera under unstable lighting conditions.**



Severe lighting change or flicker can cause the camera to work improperly.

**Do not touch the front lens of the camera.**



This is one of the most important parts of the camera. Be careful not to leave fingerprints on the lens cover.

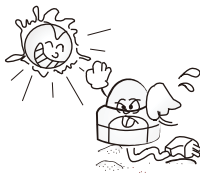
## ■ Precautions

**Do not drop the camera and protect it from physical shocks.**



It can cause malfunctions to occur.

**Never keep the camera pointed directly at strong light.**



It can damage the CCD.

**Do not expose the camera to radioactivity.**



If exposed to radioactivity the CCD will fail.



**1. COLOUR DOME CAMERA**



**2. SCREW FOR JUNCTION BOX**



**3. SCREWS FOR DOME COVER**



**4. WEATHER PROOF GASKET**



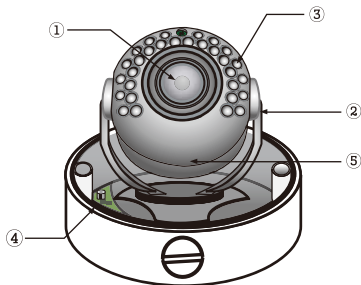
**5. L-WRENCH**



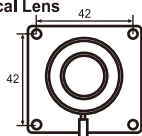
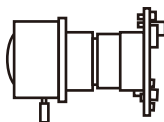
**6. SERVICE MONITOR VIDEO CABLE**



## Names and Functions of Parts



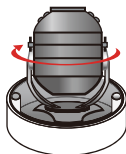
### ① LENS : 2.8~11mm DC Auto IRIS Varifocal Lens



### ② 3-AXIS BRACKET



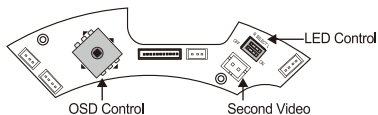
Operational angle  
(Tilt : 10~90° / Manual)



Operational angle  
(Pan : 0~355° / Manual)

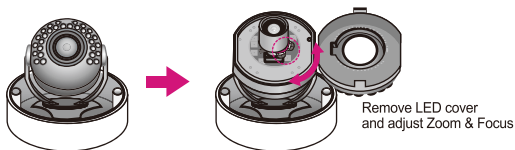
### ③ Infrared LED - 30PCS

### ④ OSD Control Board (Please refer to page 12 for more information)

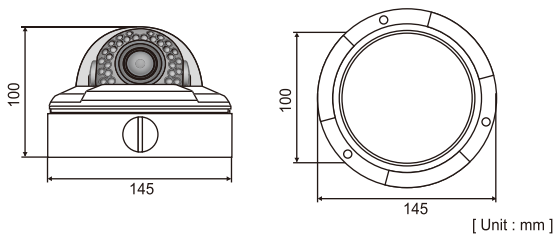


## Names and Functions of Parts ■

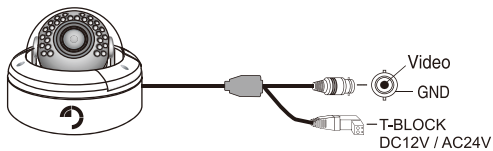
### ⑤ Zoom & Focal Adjustment



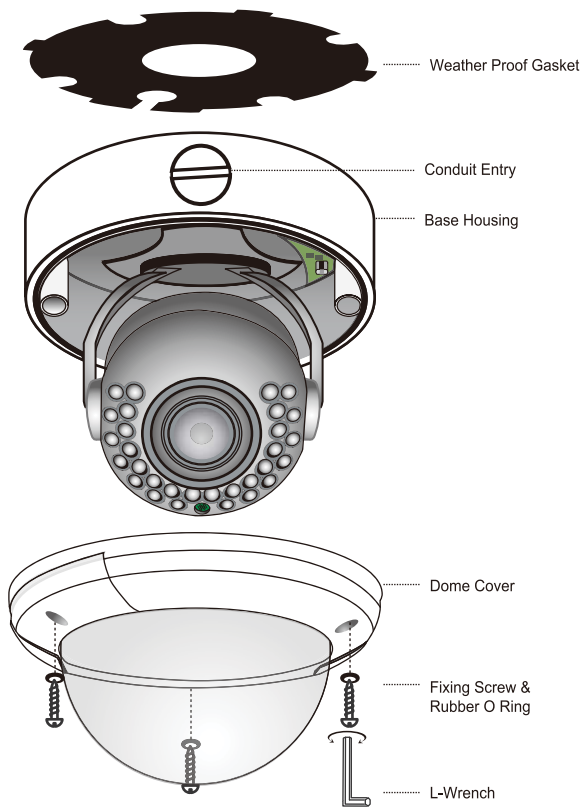
## Dimensions ■



## Cable Connections ■



## ■ Installation



### 1. Dome Base Mounting

- Open the dome cover, by loosening the 3 screws, using the special wrench provided.
- Mount the base of camera to a sturdy surface using the 4 screws (1.5-inch) and the 4 premade holes on the base of the dome.

### 2. Power Connection & Monitor Impedance

- Power Connection & Monitor Impedance
- Regulated 12VDC or 24VAC, 1A power supply (Dual Power)
- To avoid fire or shock hazard, always use a CE listed power supply.
- Set the monitor impedance switch to  $75\Omega$ . Check the impedance switch if the screen appears blurred.

### 3. Camera Module Adjustment

- Loosen screws for the 3-axis camera bracket to adjust the cameras angle of view.
- Make sure to retighten the camera bracket screws.
- Set LED control switch according to environment.

### 4. Adjustment

- Take out LED cover.
- Adjust Zoom and Focus properly.
- Replace the LED cover.

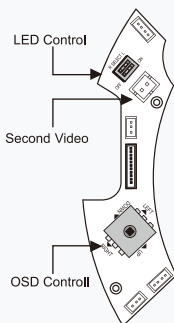
### 5. Dome Cover Mounting

- Replace the dome cover to the base and tighten the 3 screws.

## ■ Camera Operation

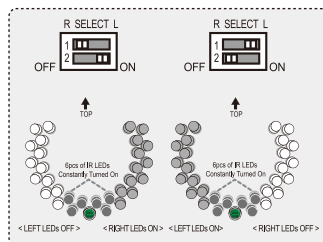
### ■ Camera Operation

#### Functions



#### LED Control

OFF / ON

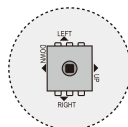


#### SECOND VIDEO

Service monitor connection.

#### OSD Control

SET / UP / DOWN/ LEFT / RIGHT



## Specifications ■

ITEM	PAL	
Total Pixels	795(H) x 596(V)	
Effective Pixels	752(H) x 582(V)	
Sensor	1/3" High Resolution IT CCD	
Scanning System	2:1 Interlace	
Frequency	Horizontal :15.625KHzVertical : 50.00Hz	
E L E C T R I C A L	Resolution	More than 630 TV Lines
	Video Output	1.0Vp-p Composite Signal ( 75ohm )
	AGC	OFF / LOW / MIDDLE / HIGH
	S/N (Y signal)	52dB or more (AGC OFF)
	Min.Illumination	0 Lux for Infrared Lighting Conditions
	White Balance	ATW / MANUAL / PUSH / AWC
	Electronic shutter speed	1/50s - 1/100,000s
	3D-DNR	OFF / ON Selectable (LOW / MIDDLE / HIGH / CNR)
	Sens-Up	OFF / AUTO ( x2 ~ x1024)
	D&N Selection	AUTO / COLOR / BW / EXT
	BLC	ON / OFF Selectable
	D-WDR	ON / OFF Selectable
	HLM	ON / OFF Selectable
	DPC	Built In OSD
	IR SMART	ON / OFF Selectable
	Motion Detection	OFF / ON(AREA 1~4)
	Privacy Masking	OFF / ON(MASK 1~8)
	MIRROR	ON / OFF Selectable
	SHARPNESS	ON / OFF (Level Adjustable 1~30)
	Multi Language	Available
O.S.D	Available	
IR LEDs	30IR LEDs	
Lens Mount	2.8~11mm DC Auto Iris	
Operating temperature/Humidity	-10℃ ~ +50℃ / 0~80% RH	
IP Rating	IP66	
Power Supply	DC12V 160mA / AC24V 130mA (CDS ON 450mA)	
Dimensions	100(W)mm X 145(D)mm	
Weight	Appx. 600g	

## ■ Troubleshooting

If there are problems with the camera operation, check the table below. If the problem persists, please contact the agent who supplied the product.

Problems	Troubleshooting
<b>Nothing appears on the screen.</b>	<ul style="list-style-type: none"><li>· Check the power connections.</li><li>· Check the video signal line connection.</li></ul>
<b>The video image is not clear.</b>	<ul style="list-style-type: none"><li>· Make sure that the lens is clean. Clean the lens with a clean lint free cloth or brush.</li><li>· Adjust the contrast control on the monitor.</li><li>· Make sure that the screen is not exposed directly to bright light. Re-position the camera if necessary.</li><li>· Adjust zoom or focus after taking out LED cover.</li></ul>
<b>The screen is dark.</b>	<ul style="list-style-type: none"><li>· Adjust the contrast control of the monitor.</li><li>· If there is an intermediate device, set the 75ohm Hi-z correctly, and also check the connections.</li><li>· If necessary, adjust the brightness level.</li></ul>
<b>There is a problem with the camera operation. The camera surface is too hot and black stripes appear on the screen.</b>	<ul style="list-style-type: none"><li>· Check if an appropriate power source to the camera complies with the manufacture's standard requirement or if the voltage is fluctuating. Check for ground loops.</li></ul>



Problems	Troubleshooting
<b>The screen is flickering.</b>	· Check if the camera is facing directly into sunlight or fluorescent light.
<b>COLOUR mode is not working.</b>	· Check if the AGC menu is set to the OFF position.

## ■ Warranty

1. Products are supplied with 3 year limited warranty from the date of purchase. We will repair or replace the defective item with a new or factory rebuilt replacement.
2. Transportation of the product to our service center is the responsibility of the user. Repaired or replaced product will be returned prepaid during the warranty period.
3. This warranty applies to the original purchaser only.
4. This warranty will be invalid if unauthorized repair or modification are made to the unit or in any case of accident, misuse or damage caused by improper installation or altered serial numbers.
5. The liability of the company has limited the cost of repair/replacement of the unit under warranty.
6. If you need warranty service, please return the product to your distributor/dealer. Proof of purchase may be required.

## ■ Warranty Card

PRODUCT NAME		WARRANTY YEARS	
MODEL NAME			
DATE OF PURCHASE	/DAY /M /Y	3YEARS	
WARRANTY DATE			
ADDRESS OF CUSTOMER	NAME		
	TEL		
CONTACT	NAME		
	AGENT		
	TEL		
<ul style="list-style-type: none"> <li>- Please read the instruction manual again before asking for the A/S</li> <li>- Please explain exactly what the problem you have is,</li> </ul>			
<div style="border: 1px solid black; height: 40px; width: 100%;"></div>			