



## **D/N VARI-FOCAL IR CAMERA**

**PIH-0364X/0368X/0384X/0388X W/S N/P H**

**INSTRUCTION MANUAL**

## IMPORTANT SAFEGUARDS

### 1. Read Instructions

All the safety and operating instructions should be read before the unit is operated.

### 2. Retain Instructions

The safety and operating instructions should be retained for future reference.

### 3. Read Warnings

All warnings on the unit and in the operating instructions should be adhered to.

### 4. Follow Instructions

All operating and user instructions should be followed.

### 5. Electrical Connections

Only a qualified electrician should make electrical connections.

### 6. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.



### 7. Cable Runs

All cable runs must be within permissible distance.

### 8. Mounting

This unit must be properly and securely mounted to a supporting structure capable of sustaining the weight of the unit.

## SAFETY PRECAUTIONS

	<b>CAUTION</b> <b>RISK OF ELECTRIC SHOCK</b>	
<p>CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		



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.



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 unit.

## UNPACKING

Unpack carefully. Electronic components can be damaged if improperly handled or dropped. If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper.

Be sure to save:

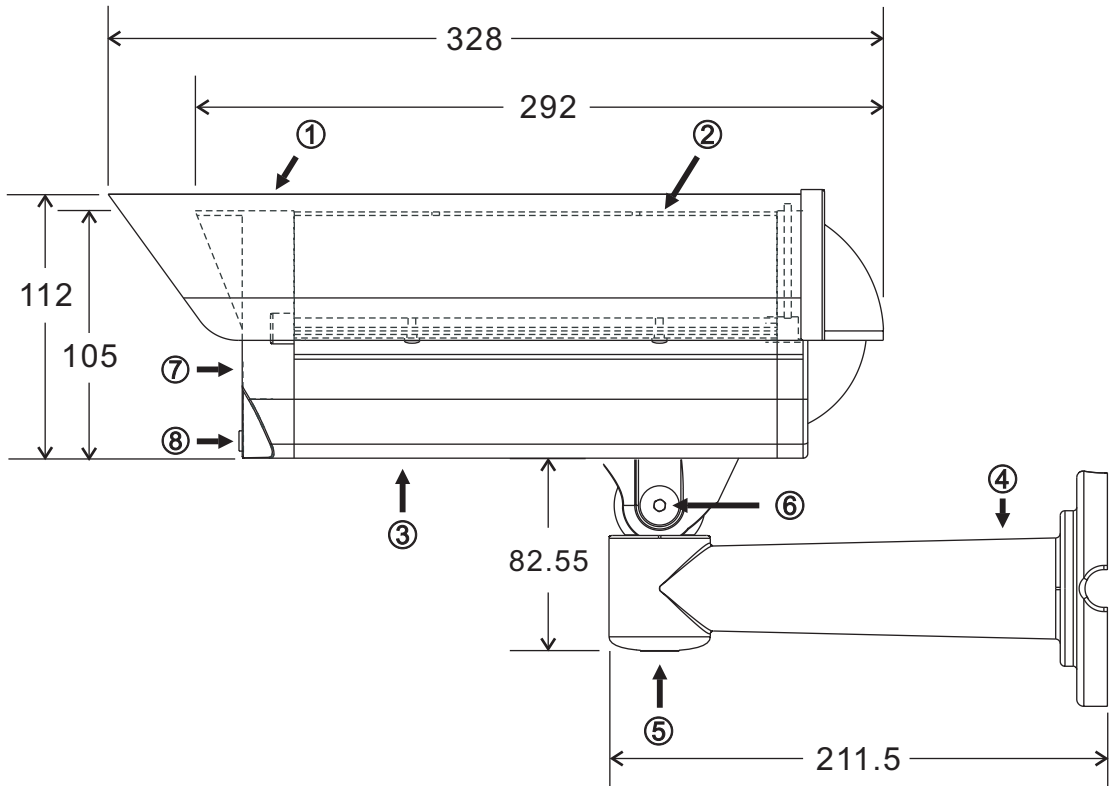
1. The shipping carton and packaging material. They are the safest material in which to make future shipments of the equipment.
2. This Installation and Operating Instruction.

## SERVICE

If the unit ever needs repair service, the customer should contact our dealer or branch for authorization to return and shipping instructions.



# Part Description & Dimension

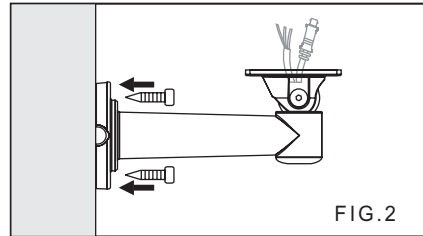
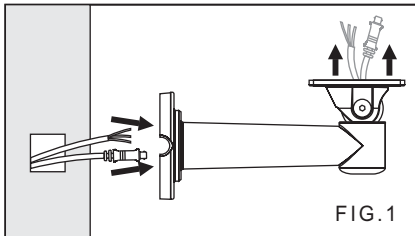


Unit : mm

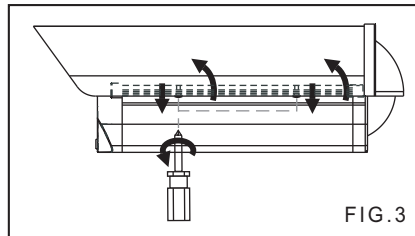
- ① SUN SHIELD
- ② TOP COVER
- ③ BOTTOM CHASSIS
- ④ BRACKET
- ⑤ PAN ADJUSTMENT SCREW
- ⑥ TILT ADJUSTMENT SCREW
- ⑦ WINDOW
- ⑧ SENSOR CAP

# INSTALLATION

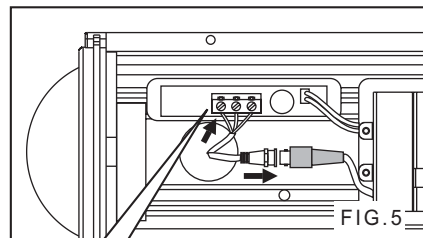
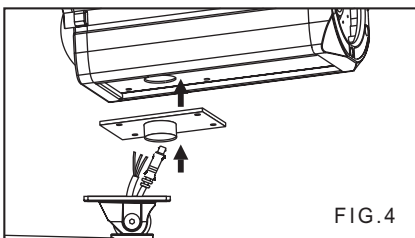
1. Take out the bracket from the box first. Put the power cable and video cable through the bracket and then fix it to the wall (FIG.1 & FIG.2).

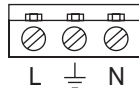


2. Secondly, take out the camera body and open the top cover with screw driver (FIG.3).

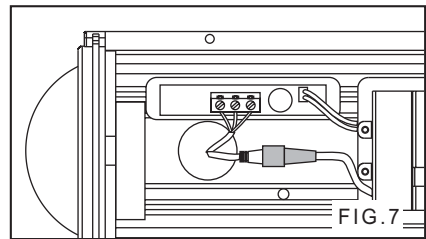
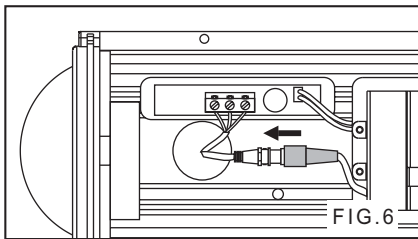


3. Put the power cable and video cable through the bracket rubble first and then go through the bottom of camera body (FIG.4). Plug and fix the power cable to the terminal and plug the video cable to video output of the camera (FIG.5).

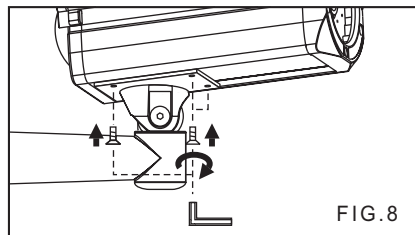


	<b>Note :</b> When using two-cord power cable, please connect them to "Live" and "Neutral".
L	
Earth	
Neutral	

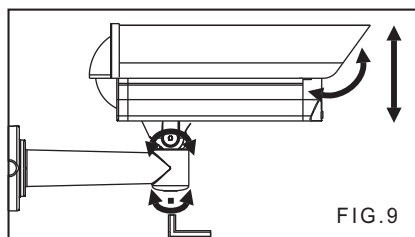
4. For safety reason, when plug video cable to video output please use the cable tubing to cover the bare part to avoid danger of electric shock or electric leakage (FIG.6 & FIG.7).



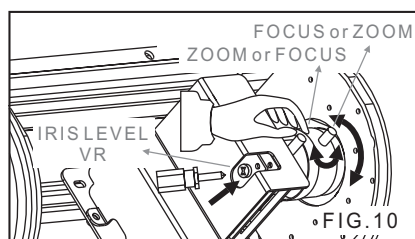
5. Next, use the provided 1/4"-20UNC screws (silver-4pcs) to fix the camera body on the bracket with hexagon screw driver (FIG.8).



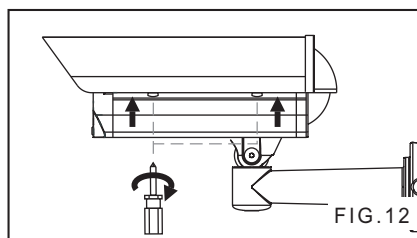
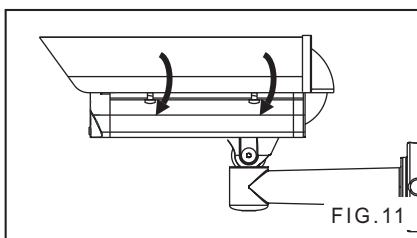
6. Loosen the pan and tilt adjustment screw on the bracket to turn the camera body to the desired angle and then tighten the screws (FIG.9).



7. First, adjust the lens on focus and zoom to form the optimal video image after that tighten the screws. Then adjust the IRIS level VR to form the optimal image brightness (FIG.10).



8. Replace the top cover and tighten the screws (FIG.11 & FIG.12).



# SPECIFICATIONS

D/N VARI-FOCAL IR CAMERA						
Model No.		PIH-0364XWN/PH	PIH-0364XSN/PH	PIH-0368XWN/PH	PIH-0368XSN/PH	
Lens	Focal Length	3.3 ~ 12mm	9 ~ 22mm	3.3 ~ 12mm	9 ~ 22mm	
	Iris	F1.4				
	Angle of view	H	89.8° ~ 23.9°	32.1° ~ 13.1°	89.8° ~ 23.9°	32.1° ~ 13.1°
		V	63.6° ~ 17.9°	23.3° ~ 9.8°	63.6° ~ 17.9°	23.3° ~ 9.8°
D		125.7° ~ 29.9°	41.9° ~ 16.3°	125.7° ~ 29.9°	41.9° ~ 16.3°	
Power Input Voltage		AC24V (±10%)		AC90~260V		
System		NTSC or PAL				
Sync. Mode		Internal				
Pick Up Element		1/3" Exview HAD CCD Sensor				
Effective Pixels		510(H) x 492(V) [NTSC] 500(H) x 582(V) [PAL]				
Chip Size		6.00mm(H) x 4.96mm(V)				
Horizontal & Vertical Sync. Frequency		15.734 KHz / 59.94Hz [NTSC] 15.625 KHz / 50Hz [PAL]				
Scanning System		2:1 Interlace				
Infrared Cut Filter		Auto Selectable				
Resolution		Color: 380 TV Lines, Mono: 450 TV Lines				
Minimum Illumination		Color: 0.02Lux at F1.4, 0Lux with IR Mono: 0.005Lux at F1.4				
S/N Ratio		More Than 50dB (AGC-OFF)				
Auto Gain Control		36dB Variable Gain				
White Balance		ATW				
Aperture Correction		Horizontal, Vertical				
Power Consumption		21W				
Back Light Compensation		Auto				
Video Output		CVBS 1.0Vp-p, 75ohm				
Operating Temperature		-20°C ~ +50°C (-4°F ~ 122°F)				
Gamma Characteristic		$\gamma = 0.45$				
IP Rating		IP66				
Window		$\phi$ 78 Heat Resistant Glass				
Heater Control		On: 15°C (59°F), Off: 25°C (77°F)				
Infrared LED	Peak Wavelength	850nm				
	Beam Spread	30°				
	Radiant Distance	50M	60M	50M	60M	
Dimension		Body: 120mm(W) x 112mm(H) x 328mm(D), Bracket: 211.5mm(L)				
Weight		2000g				

Design and specifications are subject to change without notice.

D/N VARI-FOCAL IR CAMERA							
Model No.		PIH-0384XWN/PH	PIH-0384XSN/PH	PIH-0388XWN/PH	PIH-0388XSN/PH		
Lens	Focal Length	3.3 ~ 12mm	9 ~ 22mm	3.3 ~ 12mm	9 ~ 22mm		
	Iris	F1.4					
	Angle of view	H	89.8° ~ 23.9°	32.1° ~ 13.1°	89.8° ~ 23.9°	32.1° ~ 13.1°	
		V	63.6° ~ 17.9°	23.3° ~ 9.8°	63.6° ~ 17.9°	23.3° ~ 9.8°	
D		125.7° ~ 29.9°	41.9° ~ 16.3°	125.7° ~ 29.9°	41.9° ~ 16.3°		
Power Input Voltage		AC24V (±10%)			AC90~260V		
System		NTSC or PAL					
Sync. Mode		Internal					
Pick Up Element		1/3" Super HAD CCD Sensor					
Effective Pixels		768(H) x 494(V) [NTSC] 752(H) x 582(V) [PAL]					
Chip Size		5.59mm(H) x 4.68mm(V)					
Horizontal & Vertical Sync. Frequency		15.734 KHz / 59.94Hz [NTSC] 15.625 KHz / 50Hz [PAL]					
Scanning System		2:1 Interlace					
Infrared Cut Filter		Auto Selectable, Automatic Switch From Color Mode To Monochrome					
Resolution		Color: 540 TV Lines, Mono: 600 TV Lines					
Minimum Illumination		Color: 0.05Lux at F1.4, 0Lux with IR Mono: 0.01Lux at F1.4					
S/N Ratio		More Than 50dB (AGC-OFF)					
Auto Gain Control		36dB Variable Gain					
White Balance		ATW					
Aperture Correction		Horizontal, Vertical					
Power Consumption		21W					
Back Light Compensation		Auto					
Video Output		CVBS 1.0Vp-p, 75ohm					
Operating Temperature		-20°C ~ +50°C (-4°F ~ 122°F)					
Gamma Characteristic		$\gamma = 0.45$					
IP Rating		IP66					
Window		$\phi$ 78 Heat Resistant Glass					
Heater Control		On: 15°C (59°F), Off: 25°C (77°F)					
Infrared LED	Peak Wavelength	850nm					
	Beam Spread	30°					
	Radiant Distance	50M	60M	50M	60M		
Dimension		Body: 120mm(W) x 112mm(H) x 328mm(D), Bracket: 211.5mm(L)					
Weight		2000g					

Design and specifications are subject to change without notice.

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