

**25~30-meter Infrared Vari-focal  
Vandalproof Camera**

**CAM-IVP55V**

Quick Installation Guide

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## Safety Precautions

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN!	
<b>CAUTION :</b> TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

It is advised to read the Safety Precaution Guide through carefully before operating the product to prevent any possible danger.



**WARNING:** Alert the user to the presence of un-insulated "dangerous voltage".



**CAUTION:** Alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



**Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).**

**This symbol indicates that this product shall not be treated as household waste.**

**Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health. For more detailed information about recycling of this product, please contact your local city office, your**

**household waste disposal service or the shop where you purchased the product.**

**Please be extra careful not to shake the product.**

**Please avoid places where there are frequent vibrations or shocks.**

**Do not install the product 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 the product in an environment where the humidity is high** unless the product is waterproof or weatherproof; otherwise, it can cause the image quality to be poor.

**Do not expose to strong light (sun rays), as color filters will be discolored.**

**Do not spill liquid of any kind on the product.**

If it gets wet, wipe it dry immediately. Alcohol or beverage can contain minerals that corrode the electronic components.

When something abnormal occurs, make sure to unplug the unit, and contact your local dealer.

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## **Chapter 1. Product Introduction**

PLANET provides various camera solutions for users to solve different security issues. The CAM-IVP55V, when working with PLANET Digital Video Recorders or Internet Video Servers, helps people easily create a secure protection system for their daily life.

The CAM-IVP55V uses the latest highly-sensitive color Sony Effio-E DSP 960H EXview 1/3" interline transfer Charge Coupled Device (CCD) image sensor, producing pictures reaching 700TV lines of horizontal resolution, and clearer and sharper surveillance image.

It supports Day & Night functionality, vandalproof and IP66 weatherproof features. It also initiatively provides mobile detection warnings offering more comprehensive monitoring of safety protection. A carefully-planned privacy zone enables monitoring more at ease. It brings an extremely clear and exquisite picture quality even under any challenging lighting conditions.

### **1.1 Before Installation**

Before installation, please be sure to read this quick installation guide carefully to complete machine installation. This guide shows how to quickly set up these cameras, unless the specified term "Analog Camera" is used for these two models.

## 1.2 Product Specifications

Product	CAM-IVP55V
Camera	
Image pick-up device	1/3" Color Sony Effio-E DSP 960H EXview HAD CCD II
Lens	2.8~12mm vari-focal DC-drive auto iris lens
Aperture Range	F1.4
Iris Control	Auto
Video	
Min. Illuminator	0.01 lux (@F1.4) color mode
Electronic Shutter	NTSC: 1/60, PAL: 1/50
Effective Pixels	NTSC: 976 x 494 PAL: 976 x 582
Horizontal Resolution	Color : 650 TVL B / W : 700 TVL
Gamma Characteristic	0.45
S/N Ratio	More than 54 dB
Function	
White Balance	1,800°K~10,500°K ATW: SPEED / DELAY CNT / ATW FRAME / ENVIRONMENT--INDOOR / OUTDOOR; PUSH; USER1; USER2; ANTI CR (Anti-Color Rolling); MANUAL; PUSH LOCK

Synchronous System	Internal, Negative sync
On-Screen-Display (OSD)	Yes
Gain Control	Automatically
Adaptive Tone Reproduction (ATR)	Yes
Digital Noise Reduction (DNR)	2-DNR
Language	English / Français / Deutsch / Español / Português / Pycckó / Japanese
IR LED	36 pieces
IR Wavelength	850 nm
IR Distance	25-30 meters
<b>General</b>	
Vandalproof	IK10
Weatherproof	IP66
Synchronous System	Internal, Negative sync
Video Output	1 Vp-p Composite Video / 75 ohm
Power Requirements	12V DC, 0.5A
Dimensions (Φ x H)	136 x 118 mm
Weight	680g
Operating Temperature	-10°C ~ 50°C (14°F to 122°F)

## Chapter 2. Physical Description and Installation

### 2.1 25~30-meter Infrared Vari-focal Vandalproof Camera

#### 2.1.1 Package Contents

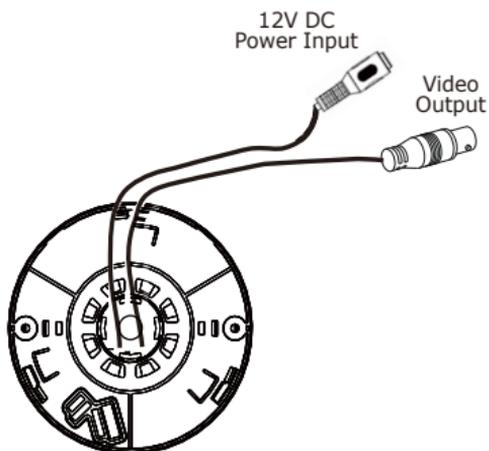
- CAM-IVP55V Camera Unit x 1
- Quick Installation Guide x 1
- Set Screw x 3
- Expansion Anchor Screw x 3
- L-shaped Wrench x 1
- Rubber Ring x 3
- Cable Hole Cover x 1
- Waterproof Cable Connector x 1



Note

If any of the above items are missing, please contact your dealer immediately.

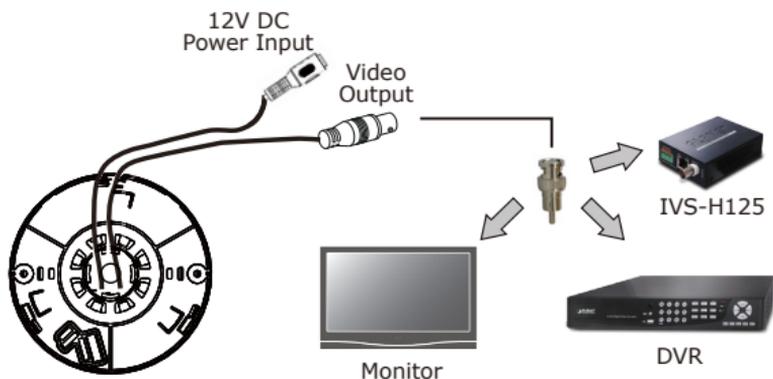
#### 2.1.2 Physical Details



Interface	Description
DC-in Jack	DC power input, connect to AC power adapter. <b>Note:</b> Before plugging in the power adapter, please ensure maximum compatibility. Using the wrong voltage power adapter may cause the camera to blow.
Video out (BNC connector)	It features two bayonet lugs on the female connector; mating is achieved with only a quarter turn of the coupling nut.

## 2.1.3 Installation and Operation

### Installation



1. Please fix the CAM-IVP55V to the bracket with screws
2. After the installation is finished, please place the camera in a suitable location.
3. Connect Video Output connector to your DVR or monitor.
4. Also you could use IVS-H125P to turn the analog camera into IP-based surveillance.

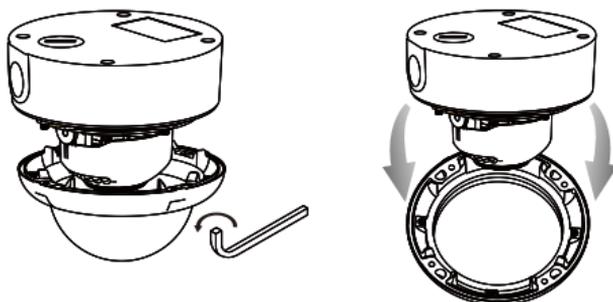
5. Connect a 12V DC power adapter to the power Input connector.

(Connect the video-out port of the camera to a device. As the connecting method varies (depending on the instrument), refer to the manual supplied with the instrument for more information.)



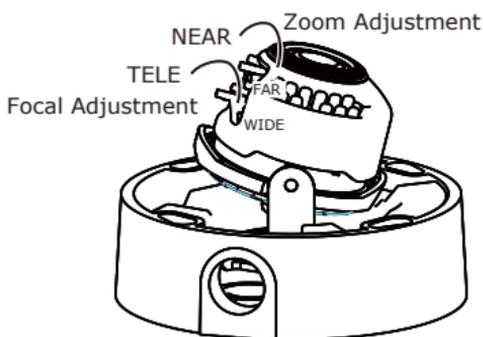
Note

Before connecting power adapter to camera, please make sure the power output voltage is DC 12V (max.  $\pm 10\%$ ). If you cannot be sure of this part, we suggest you use a DC 12V switching power adapter. It can provide stable power output.



To remove the dome cover using the provided L-shaped wrench, loosen the screws that secure the temper-resistant housing cover (with the screws still attached on the cover) to unlock the cover from the main body.

## Chapter 3. Vari-focal & 3-axis Adjustment



- You can adjust camera to any direction by using the Pan, Tilt, and Rotate mechanism.
- Pan base rotates a full 360°.
- Angle range of rotate base is 360°.



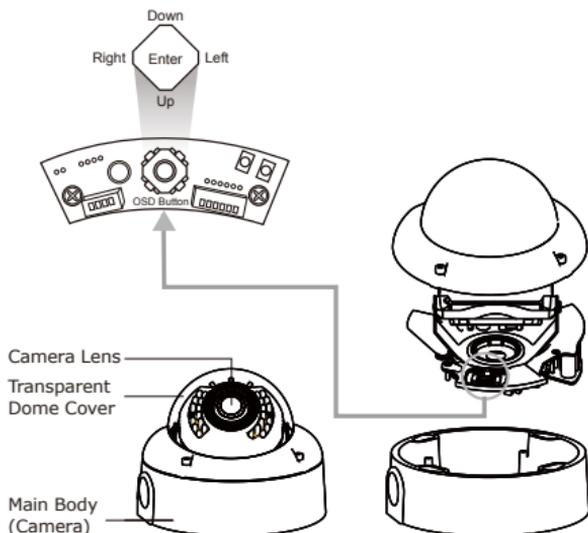
### Note

This product is not suitable for horizontal 360° continuous rotation.

- Loosen the Zoom lever counter-clockwise a little, and then rotate the Zoom lever to obtain the best image view.
- Loosen the Focus lever counter-clockwise a little, and then rotate the Focus lever to obtain the optimum picture quality.
- Re-tighten the Zoom lever and focus lever after adjustment.

## Chapter 4. Operation - OSD Framework

### 4.1 OSD Button Instruction

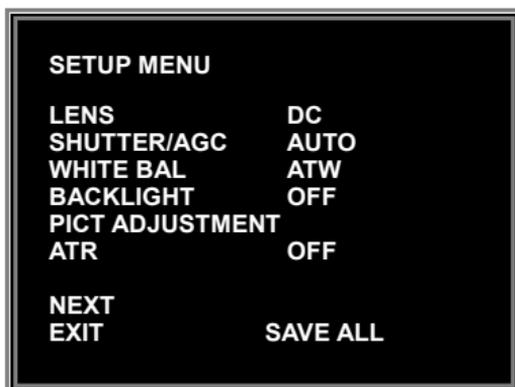


To adjust the OSD, remove the dome cover from the main body by gently turning the cover counter-clockwise to unlock and pull free from the main body. The OSD buttons can be found on the main body of the dome camera.

After you press the button and the OSD menu comes out, you could use the button to control the menu just like a joystick.

No.	Name	Function
1	UP	Digital Zoom-Out or Up direction button
2	DOWN	Digital Zoom-In or Down direction button
3	RIGHT	Increase Value (+)
4	LEFT	Decrease Value (-)
5	ENTER	Enter or Exit setup MENU

## 4.2 Main Menu Display



### Main Menu Setup

- In order to display the setup menu on the screen, set the menu command or press the button panel.
- Use UP/DOWN control buttons to select each item.
- Use LEFT/RIGHT control buttons to change the data.
- Use MENU control button to ENTER/EXIT the menu display.

## 4.3 OSD Main Menu Description

### 4.3.1 Lens: Manual / Auto selectable

- **LENS: MAUNAL**  
No adjustment (Read Only)
- **LENS: AUTO**

AUTO	TYPE: DC/VIDEO(NC)
	MODE: AUTO/OPEN/CLOSE
	SPEED: 000~255

**AUTO:** Camera automatically controls the lens.

**OPEN:** Lens fully open.

**CLOSE:** Lens fully closed.

**SPEED:** Speed of the lens.

### 4.3.2 Shutter/AGC: Auto / Manual selectable

- **SHUTTER/AGC: AUTO**

AUTO	HIGH LUMINANCE
	MODE: AUTO IRIS /SHUT+ AUTO IRIS BRIGHTNESS: 000~255
	LOW LUMINANCE MODE: AGC/OFF BRIGHTNESS: 0.25 / 0.5 / 0.75 / 1.00

#### HIGH LUMINANCE

**When LENS is set up to AUTO mode**

**SHUT+AUTO IRIS:** Exposure is controlled by auto electronic shutter combined with auto iris.

**AUTO IRIS:** Exposure controlled by auto iris.

**When LENS is set up to Manual mode**

**SHUT:** Exposure controlled by electronic shutter.

## LOW LUMINANCE

Setup low lux environment, minimum AGC level.

### ● SHUTTER/AGC: MANUAL

MANUAL	MODE: SHUT+AGC
	SHUTTER: 1/60~1/10000
	AGC: 6.00/12.00/18.00/24.00/30.00/36.00/42.00/44.80

**SHUTTER:** Fixed electronic shutter speed.

**AGC:** Fixed AGC gain control.

### 4.3.3 White Balance

**ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK** selectable.

### ● WHITE BAL.: ATW

ATW	SPEED: 0~255
	DELAY CNT: 0~25
	ATW FRAME: 0.5 / 1.00 / 1.50 / 2.00
	ENVIRONMENT: INDOOR, OUTDOOR

**SPEED:** ATW Speed

**DELAY CNT:** ATW Delay Time

**ATW FRAME:** ATW Frame Range Setup

**ENVIRONMENT:** ATW Environment Range Setup

### ● WHITE BAL.: PUSH

The function will keep on detecting the Color Temperature, and then keep saving up the parameter to the camera.

- **WHITE BAL.:** USER1

USER1	B-GAIN: 0~255
	R-GAIN: 0~255

- **WHITE BAL.:** USER2

USER2	B-GAIN: 0~255
	R-GAIN: 0~255

- **WHITE BAL.:** MANUAL

MANUAL	LEVEL: 0~255
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- **WHITE BAL.:** ANTI CR

The function can reduce the color rolling issue, and it is the same with CRS (Color Rolling Support) function

- **WHITE BAL.:** PUSH LOCK

The function will detect the Color Temperature to save into the camera.

#### 4.3.4 Backlight: BLC/HLC/OFF selectable

- **BACKLIGHT.:** BLC

Enable the function of Back Light Compensation, using BLC Smart detection method.

- **BACKLIGHT.:** HLC

Enable the function of High Light Compensation.

### 4.3.5 Pict Adjustment

MIRROR	ON/OFF
BRIGHTNESS	0~255
CONTRAST	0~255
SHARPNESS	0~255
HUE	0~255
GAIN	0~255

All camera parameters can be adjusted here.

### 4.3.6 ATR: On/Off selectable

- **ATR.:** ON

LUMINANCE	LOW: MID, HIGH
CONTRAST	LOW: MIDLOW, MID, MIDHIGH, HIGH

**LUMINANCE:** Set the extent of the luminance compression

**CONTRAST:** Set the extent of the contrast enhancement.



Note

When ATR function has been enabled, please avoid enabling the BACKLIGHT function at the same time.

### 4.3.7 Next

Enter MAIN MENU, page 2.

### 4.3.8 Exit (Save All)

Exit OSD and save all setting.

### 4.3.9 Privacy: On / Off selectable

● **PRIVACY:** ON

AREA SEL	Max. 8
TOP	0~244 (NTSC) / 0~288(PAL)
BOTTOM	0~244 (NTSC) / 0~288(PAL)
LEFT	600TVL: 0~378 (NTSC), 0~370 (PAL) 700TVL: 0~474 (NTSC), 0~468 (PAL)
RIGHT	600TVL: 0~378 (NTSC), 0~370 (PAL) 700TVL: 0~474 (NTSC), 0~468 (PAL)
COLOR	1~8
TRANSP	0.00 / 0.50 / 0.75 / 1.00
MOSAIC	ON/OFF

**AREA SEL:** Select the mask frame for adjustment

**TOP:** Set the selected top side of the mask frame.

**BOTTOM:** Set the selected bottom side of the mask frame.

**LEFT:** Set the selected left side of the mask frame.

**RIGHT:** Set the selected right side of the mask frame.

**COLOR:** Set the selected colors of the mask frames (1~8).

**TRANSP:** Set the transparency ratio of the mask frames (0 / 0.5 / 0.75 / 1).

**MOSAIC:** Set the mask frame mosaic function to ON or OFF.

### 4.3.10 Day/Night: Auto / B/W / Color selectable

- **DAY/NIGHT:** AUTO

AUTO	BURST: ON/OFF
	DELAY CNT: 0~255
	DAY → NIGHTL: 0~255
	NIGHT → DAY: 0~255

**BURST:** Select whether to output the burst signal when under Night status has been identified.

**DELAY CNT:** Set the Night/Day identification transfer time (Default: 4 sec.).

**DAY → NIGHT:** Set the threshold for identifying the Night status from the Day status.

**NIGHT → DAY:** Set the threshold for identifying the Day status from the Night status.

- **DAY/NIGHT:** B/W

B/W	BURST: ON/OFF
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**BURST:** Select whether to output the burst signal.

- **DAY/NIGHT:** Color

Day mode

### 4.3.11 NR Mode

NR MODE	Y/C, Y, C, OFF
Y LEVEL	0~015
C LEVEL	0~015

**NR MODE:** Set the DNR mode of Y/C, Y and C.

**Y LEVEL:** Set the Y filter strength.

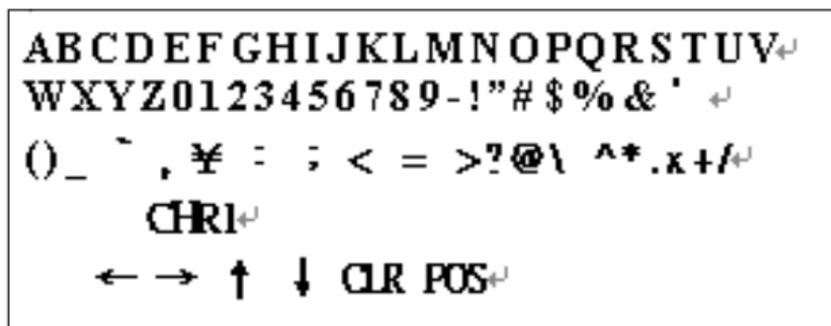
**C LEVEL:** t the C filter strength.



Note

The Y/C mode is the automatic DNR mode.

### 4.3.12 Camera ID: On / Off selectable



A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0 1 2 3 4 5 6 7 8 9 - ! " # \$ % & ' ( ) _ ` , ¥ : ; < = > ? @ \ ^ * . x + /	Each User Font
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<p>←, →, ↑, ↓</p>	<p>The camera ID cursor moves in the direction of the arrow when the Enter operation input is performed from the status in which ←, →, ↑ or ↓ has been selected using the character selection cursor.</p>
<p>CLR</p>	<p>The character selected by the camera ID cursor is cleared when the Enter operation input is performed from the status in which CLR has been selected using the character selection cursor.</p>
<p>POS</p>	<p>The display switches to the camera ID display position setting screen when the Enter operation input is performed from the status in which POS has been selected using the character selection cursor. On the camera ID display position setting screen, the camera ID display position is changed in real time in response to the left, right, up or down operation input. When the Enter operation input is performed, the display position is entered, and the display returns to the camera ID setting screen.</p>

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### 4.3.13 Language

**7 Selectable languages:** English, French, German, Spanish, Portuguese, Russian, Japanese.

### 4.3.14 Camera Reset

Reset Factory default setup.

### 4.3.15 Back

Return to MAIN MENU, page1.

### 4.3.16 Exit (Save All)

Exit OSD and save all setting.