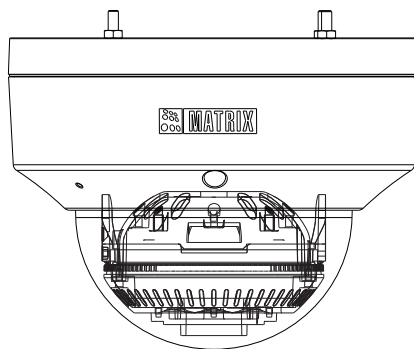


## SATATYA Professional Dome IP-Camera

The Persistent Vision



 **MATRIX**  
SECURITY SOLUTIONS

## Safety Instructions

### Cautions

- Avoid placing cables too close to magnetic or high voltage devices, to reduce undesirable image noise.
- Do not mount the camera with the lens facing the sun or bright light to prevent damage to the sensor.
- Do not expose the camera to temperatures below or beyond its operating temperature.
- Do not mount the camera near a radiator or a heater.

### Warning

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the region and nation.
- Do not connect several devices to one power adapter as it may cause over-heating or fire hazard.
- Turn off power supply before making electrical connections.
- **LED: CLASS1 (Category RS1)**
  - 1) Never look at the transmit laser while the power is on. Never look directly at the fiber ports and the fiber cable ends when they are powered on.
  - 2) Use of controls or adjustment to the performance or procedure other than those specified herein may result in hazardous laser emission.

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Please read this guide first for correct installation and retain it for future reference. The information in this guide may change from time to time. However, Matrix Comsec reserves the right to make changes in product design and specifications without prior notice.

### Copyright

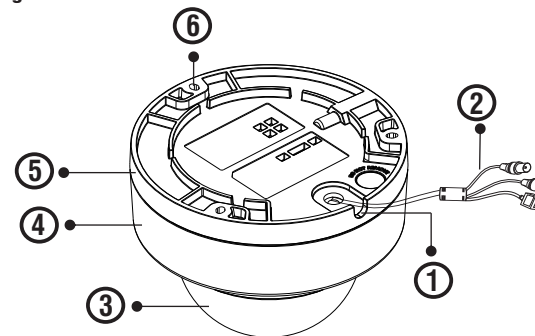
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### Warranty

Limited Warranty. Valid only if primary protection is provided, mains supply is within limit and protected, and environment conditions maintained within product specifications. Complete warranty statement is available on our website:  
[www.matrixvideosurveillance.com](http://www.matrixvideosurveillance.com)

## Know your Camera

Figure 1



- |                   |                      |
|-------------------|----------------------|
| 1. Cable Guide    | 4. Enclosure Top     |
| 2. Cable Assembly | 5. Enclosure Bottom  |
| 3. Top Glass      | 6. Hole for Mounting |

The **Standard** variant consists of 2 connectors: Power Connector and Ethernet Connector (POE).

The **Premium** variant consist of 3 connectors: Power Connector, Ethernet Connector (POE) and Audio OUT.

## What your Package Contains

- SATATYA Dome IP Camera Unit
- Wall Mounting Template
- Wall Mounting Screws with Screw Grip (3 nos.)
- Cable Accessories
- Ingress Protection Accessories (4 parts)

## Things you will Need

- A Power Drill, Screwdriver Set, Allen Key number 2.5, Pliers, Wire-cutter, Ladder.
- Necessary Cabling
- A Power Supply with the recommended output voltage of 12V DC. Use an adapter to connect the camera to the power outlet.

## Camera Variants

The SATATYA Dome Cameras are available in two variants; **Standard** and **Premium**. Both the variants are available in 2MP with 2.8mm, 3.6mm and 6.0mm fixed focal length.

The 2MP Camera variants are listed in below table,

Type of Lens	Focal Length	Standard	Premium
Fixed	2.8mm	MIDR20FL28CWS	MIDR20FL28CWP
Fixed	3.6mm	MIDR20FL36CWS	MIDR20FL36CWP
Fixed	6mm	MIDR20FL60CWS	MIDR20FL60CWP

## Installation

### Before you start

Please make sure,

- The device in the package is in good condition and all the assembly parts are included.
- All the related equipments are powered-off before installation.

### Step 1: Select a Location

Select a suitable location, preferably a flat surface such as a wall or a ceiling to enable coverage of the intended surveillance area. The wall or ceiling is strong enough to support the weight of camera.

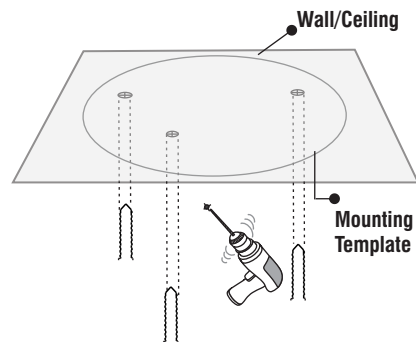
### Step 2: Prepare for Installation

- The camera can be powered-up by an adapter or PoE switch. In case, the camera is to be powered up by adapter, a 5A plug is needed nearby.
- Provide proper connectivity between camera and recording location through LAN cable.
- It is advisable to make concealed wiring. However, wiring can also be done externally.
- Insert the SD card in case fail-over recording is required, **Figure 11**.

### Step 3: Installing Mounting Template

- Stick the Mounting Template at the exact location of camera installation. The location can be Wall or Ceiling.
- Drill three holes through the markings provided on the Mounting Template on Wall or Ceiling.
- Insert the screw grips in the holes you drilled, see **Figure 2**.
- In case of concealed wiring, a separate hole has to be drilled in the center for cable outlet.

Figure 2



### Step 4: Taking off the cable

#### For External Cabling:

- Take the cable out through the cable guide, sideways to the camera, see **Figure 3a**.

#### For Concealed Cabling:

- Put the main-cabling of the center hole and make proper connection with LAN Cable, see **Figure 3b**.

Figure 3a

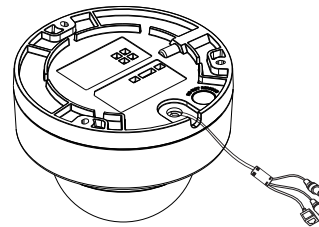
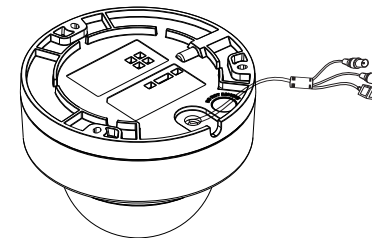


Figure 3b



### Step 5: Mounting the Camera

 Use Allen Key number 2.5 to open the camera.

- Take off the enclosure top by removing 3 screws using Allen Key, see **Figure 4**.
- Remove the Gasket, see **Figure 4**.
- Attach the bottom of the enclosure with the three screw provided along with the camera, see **Figure 5**.

Figure 4

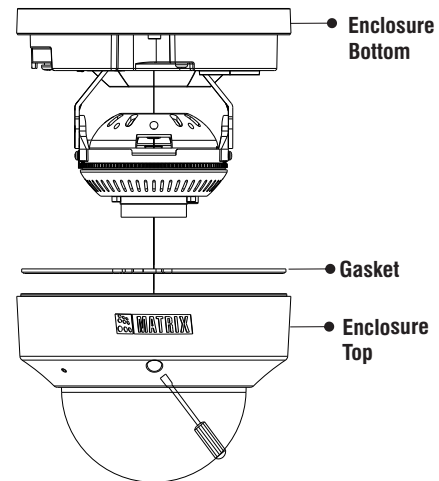
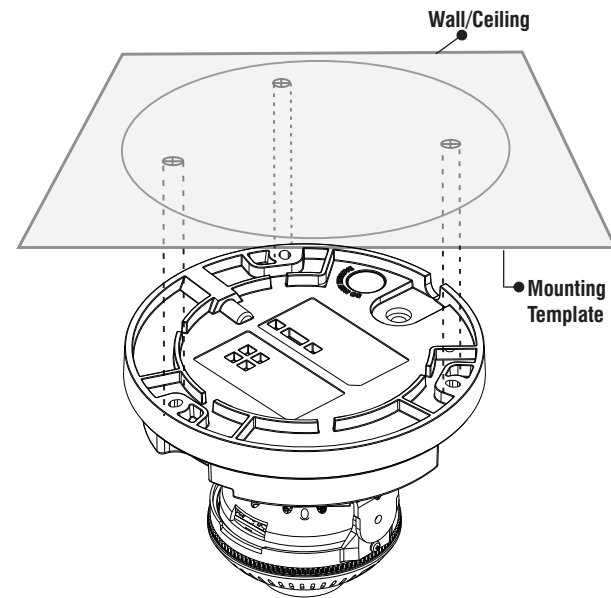


Figure 5



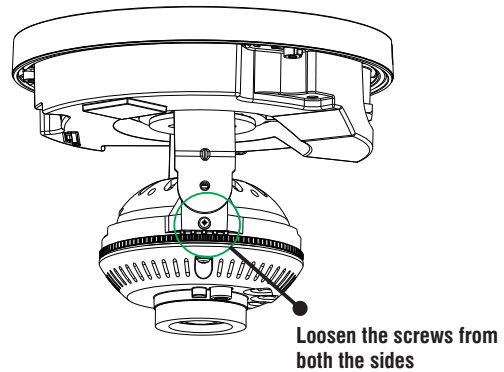
## Step 6: Adjusting Camera Angle

Loosen the screws on both sides of lens to adjust the camera angle, see **Figure 6**.

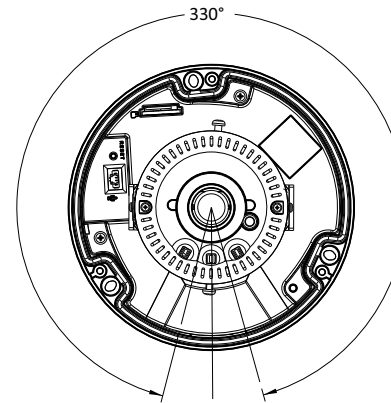
### A. PAN Movement

For **PAN movement** you can move the camera to 330°, see **Figure 7**.

**Figure 6**



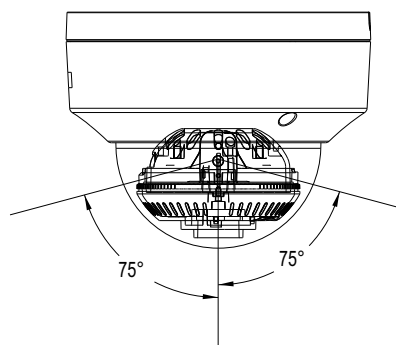
**Figure 7**



### B. Tilt Movement

- For **Tilt movement**, move the camera from 0° to maximum 75°, see **Figure 8**.
- If the horizontal view is not aligned i.e. the view is tilted, then you can adjust the view by loosening the screw and adjusting the lens accordingly, see **Figure 6**.

Figure 8



### Step 7: Place the Gasket and Top Cover

- After installing the camera at the desired location and position, place the Gasket at the enclosure bottom.
- Finally align the enclosure top and fix it with the 3 screws, see **Figure 9**.
- The installed camera is shown in **Figure 10**.

Figure:9

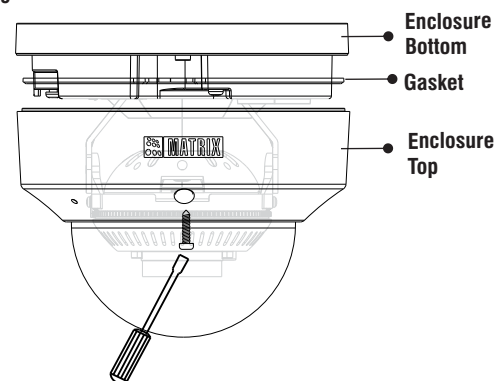
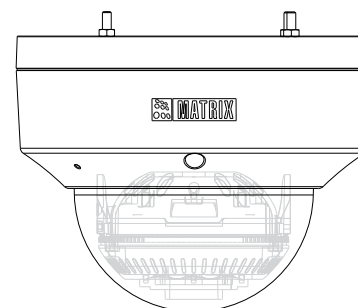


Figure:10

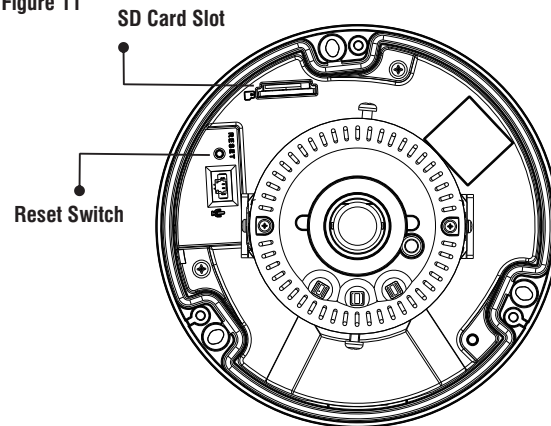


## Accessing Reset Switch & SD Card Slot

If you forget the IP address or login credentials of camera then the camera can be reset to factory default settings using the reset switch.

- The Reset switch is located as shown in **Figure 11**. Press the Reset switch for minimum 5 sec and then release it to reset the camera to default settings.
- You can insert the SD card in the slot to store your camera recordings, see **Figure 11**. If you insert the SD card when the camera is running, make sure you reboot the camera.

Figure 11

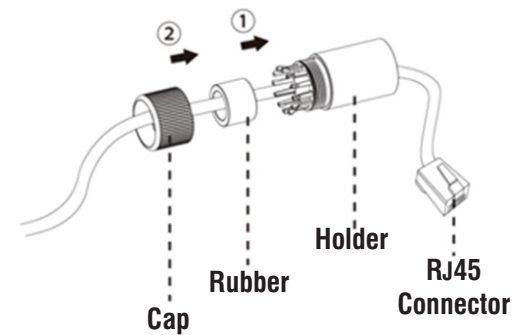


## Ingress Protection Accessory Installation

1. The Ingress Protection Accessory comprises of the following: Holder, Rubber, Cap and O-Ring.

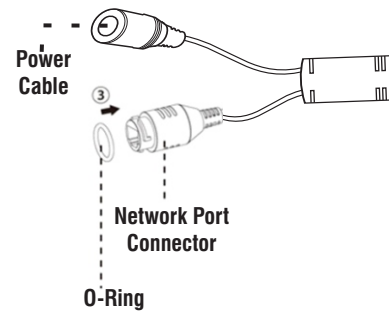
You need to pass the RJ45 cable with connector through each in the sequence as shown below.

Now, insert the Rubber into the Holder and then place the Cap.

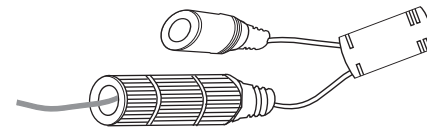




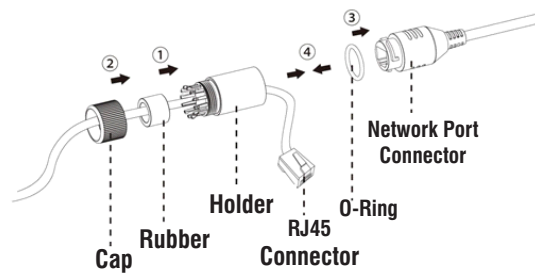
2. Affix the O-Ring on the Network Port Connector as shown below.



4. The Ingress Protection Accessory is connected with the camera.



3. Insert RJ45 Connector into the Network Port Connector.



## Powering the Camera

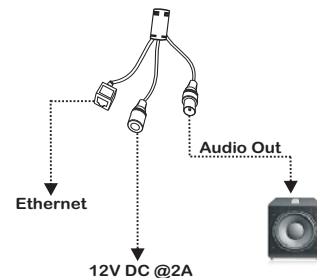
- Connect the **Ethernet** cable to LAN port and **Power** cable to the 12V DC power supply.


### Power over Ethernet (PoE)

The IP camera is PoE- compliant, allowing transmission of power and data via a single Ethernet cable connected to PoE switch.

In Premium variants, connect Audio I/O cables if required.

- Audio Output** device such as earphone or speaker to the Audio Output cable of the camera can be connected. This will generate audio received from the network.



 If device such as Speaker can be connected to Audio OUT, you may need to connect an external power source if their power requirements are not fulfilled with the camera adapter.

## Network Configuration

To view and configure the camera via LAN (Local Area Network), you need to connect the network camera in the same subnet with your PC. Then install the software to configure the IP address.

### Steps to get the IP address

- Once the camera is connected to the network, dynamic IP address will automatically be assigned by the DHCP server. You can view the assigned IP address through any IP scanner utility.
- If DHCP server is unavailable or is not able to provide an IP address then 192.168.1.126 will be set as default IP address.
- You can change the IP address and subnet mask of Camera from the Basic Settings page of camera.

IP Address Settings

Host Name \* matrix-cam

IP Address Configuration

IP Configuration Static

IP Address \* 192.168.104.132

Subnet Mask \* 255.255.255.0

Default Gateway \* 192.168.102.1

DNS Configuration

DNS ☒ Specified ☐ Auto

Preferred \* 192.168.1.1

Alternate

## Accessing via Web Browser

The IP cameras are supported by Microsoft Windows Operating System.

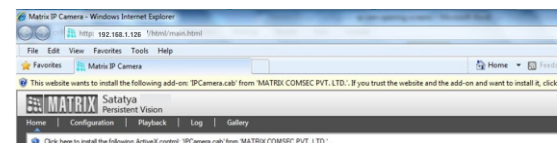
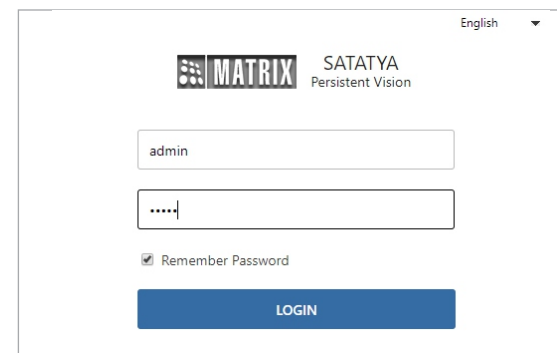
! In Internet Explorer you can access the camera with Matrix ActiveX plugin. In other browsers you need to install Quicktime or VLC plugin.

### Steps:

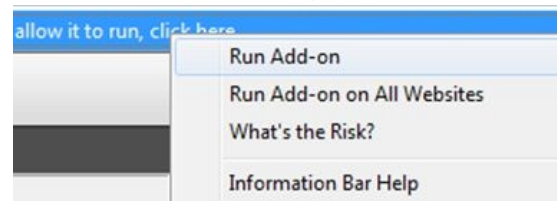
- Run the web browser as administrator, enter IP address of the camera e.g., **192.168.1.126** and press the Enter key to open the login interface.



- Enter the **User Name** and **Password**.
- By default, you can login with User Name as **admin**, **operator** or **viewer** with the password as **admin**, **operator** and **viewer** respectively.
- Click on **Login**.



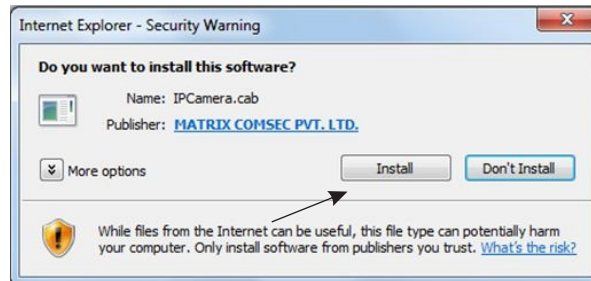
- The browser will ask you to install ActiveX control.
- Click on Run Add-on to install the plugin and **Run** it.



- The home page of the camera will open and the live view will be displayed.



- The camera configuration can be set from Configuration tab.







### Technical Specification

Specification	Standard	Premium
Hardware		
Power Supply	12V DC	
PoE	Yes (802.3af, Class 2)	
Power Cosumption	12VDC 0.6A; max: 7W PoE (36V to 57V)(0.2A to 0.1A); max: 8W	
Reset Switch	Yes	Yes
Ethernet	Yes	Yes
Audio IN	No	In-Built Microphone
Audio Out	No	Yes
Casting		
Material	Metallic	
Colour	White/ Beige	
Physical		
Dimensions (Diameter x Height)	126mm x 110mm	
Weight	740gm	

### Technical Specification

Specification	Standard	Premium
Storage		
NAS	Yes	Yes
SD Card	Yes (upto 512GB)	Yes (upto 512GB)
Software		
IVA Events	Motion Detection, View Tamper, Trip Wire, Zone Intrusion, IP-Conflict	Motion Detection, View Tamper, Trip Wire, Zone Intrusion, Audio Exception, IP-Conflict
ONVIF Profile	S, P	
Environmental		
Operating Temp.	-20 °C to +60 °C	
Humidity	Less than 95% RH	

## Compliance

   	
EMC Directive	2014/30/EU
Low Voltage Directive	2014/35/EU
RoHS Recast (RoHS 2)	2011/65/EU (As per standard EN 50581:2012)
<b>Mechanical</b>	
Protection against Mechanical impact (IK10)	IEC 62262:2002
Degree of Protection (Ingress Protection)	IEC 60529

## Disposal of Product after End-Of-Life

### WEEE Directive 2002/96/EC

The product referred is covered by the waste Electrical and Electronic Equipment (WEEE) directive and must be disposed of in a responsible manner.

At the end of product life cycle; batteries, soldered boards, metal components and plastic components must be disposed through recyclers.

If you are unable to dispose-off the products or unable to locate e-waste recyclers, you may return the products to Matrix Return Material Authorization (RMA) department.

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### MATRIX COMSEC PVT. LTD.

#### Head Office

394-GIDC, Makarpura, Vadodara - 390010, India

Ph: (+91)1800-258-7747

Email: Tech.Support@MatrixComSec.com

[www.matrixvideosurveillance.com](http://www.matrixvideosurveillance.com)