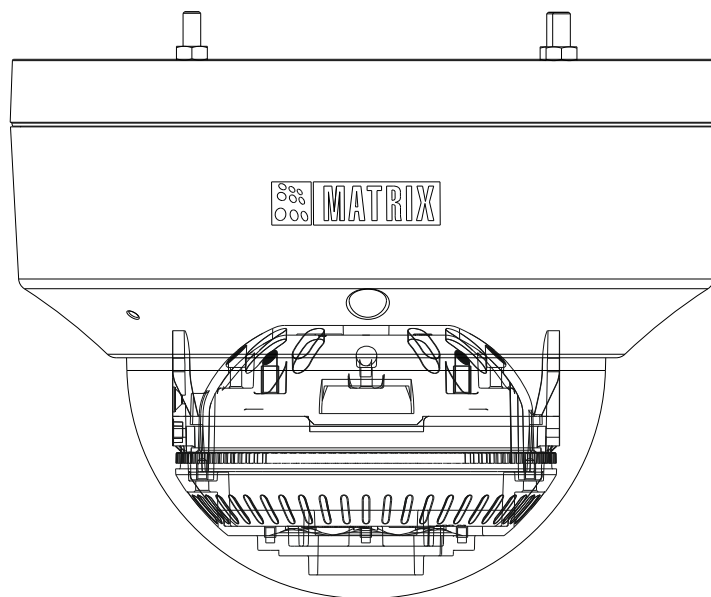


SATATYA PROFESSIONAL DOME IP-Camera

The Persistent Vision



Safety Instructions

These instructions are intended to ensure that the user can use the product correctly to avoid danger or property loss.

Cautions

- Ensure that the power supply voltage is correct before using the camera.
- Avoid placing cables too close to magnetic or high voltage devices, to reduce undesirable image noise.
- Do not touch the glass/lens with fingers. For cleaning use ‘clean cloth’ and wipe it gently.
- 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.
- If smoke, odour or noise rise from the device, turn off the power at once and unplug the power cable, and contact the nearest service center.
- To prevent electrical shock, turn off power supply before making electrical connections.

Contents

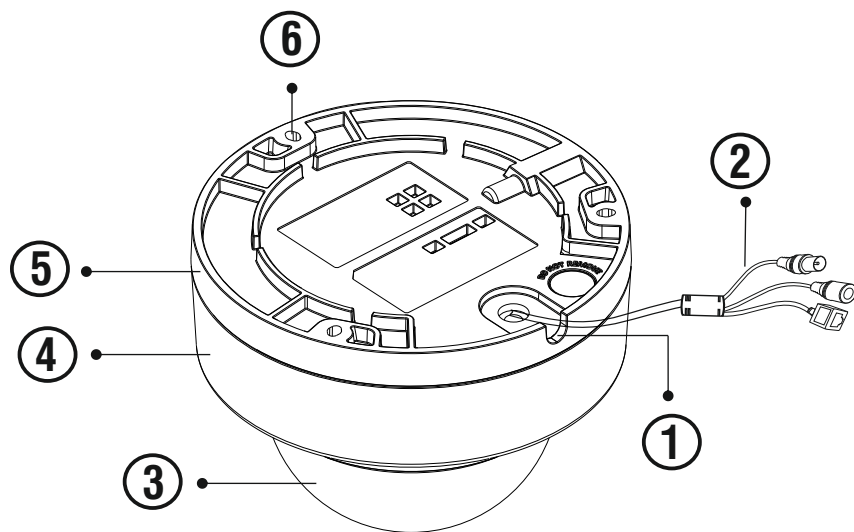
Know your Camera	5
What your Package Contains	6
Things you will Need	6
Camera Variants	6
Installation	8
Installing Mounting Template	9
Mounting the Camera	10
Adjusting the Camera Angle	12
Ingress Protection Accessory Installation	16
Connecting cables	18
Accessing Reset Switch & SD Card Slot	20
Network Configuration	21
Accessing via Web Browser	22
Technical Specification	23

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

Copyright
All rights reserved. No part of this document may be copied or reproduced in any form or by any means without the prior written consent of Matrix Comsec.

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.matrixcomsec.com

Know your Camera



- | | |
|-------------------|----------------------|
| 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 (2.46 mm), 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 Bullet Cameras are available in two variants: **Standard** and **Premium**.



You can capture near and broader view with lens of 2.8mm and 3.6/4.0 mm focal length. For example it can be used in ATM and Elevators.

With lens of 6 mm focal length, far and narrow view can be captured. For example it can be used in corridors or long passage to capture long view.

The respective available variants are listed in below:

Resolution with Type of Lens	Focal Length(mm)	Standard	Premium
2MP			
Fixed	2.8	MIDR20FL28CWS	MIDR20FL28CWP
	3.6	MIDR20FL36CWS	MIDR20FL36CWP
	6.0	MIDR20FL60CWS	MIDR20FL60CWP
5MP			
Fixed	2.8	MIDR50FL28CWS	MIDR50FL28CWP
	4.0	MIDR50FL40CWS	MIDR50FL40CWP
	6.0	MIDR50FL60CWS	MIDR50FL60CWP
8MP			
Fixed	2.8	MIDR80FL28CWS	MIDR80FL28CWP
	3.6	MIDR80FL36CWS	MIDR80FL36CWP
	6.0	MIDR80FL60CWS	MIDR80FL60CWP

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.
- The wall or ceiling is strong enough to support the weight of camera.

Step 1: Select a Location

Select a suitable location for your camera to enable coverage of the intended surveillance area. The location should preferably be a flat surface, such as a Wall or a Ceiling.

Step 2: Prepare for Installation

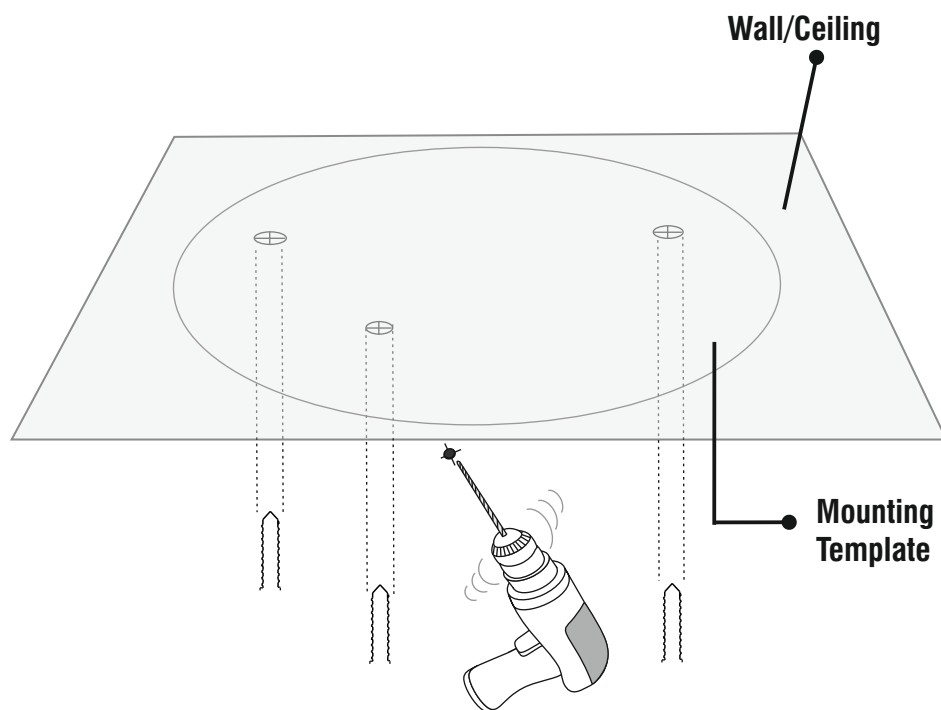
- The camera can be powered using an Adapter or PoE Switch. In case, the camera is to be powered using the Adapter, a 2A plug is needed nearby.
- Provide proper connectivity between camera and recording location through LAN cable.
- It is advisable to make concealed wiring. However, wiring can also be done externally.

You can insert SD card in camera to store recordings during network failover and to upload image or clip as a result of event trigger. Refer to Accessing Reset Switch and SD Card Slot.

Step 3: Installing Mounting Template

- Stick the Mounting Template at the exact location of camera installation. The location can be ceiling or wall.
- 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: Mounting the Camera

For External Cabling:

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

For Concealed Cabling:

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

Figure 3a

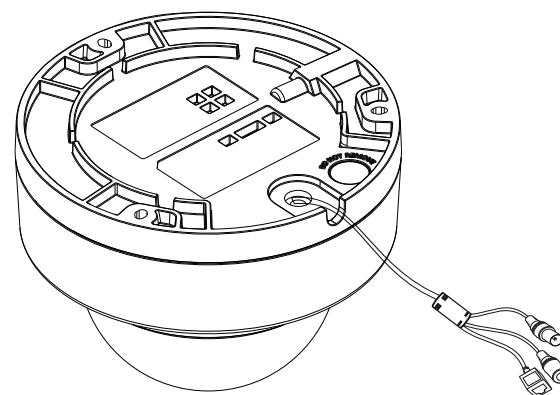
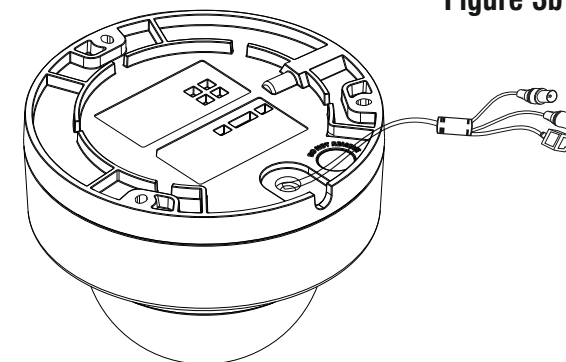



Figure 3b



 Use Allen Key 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

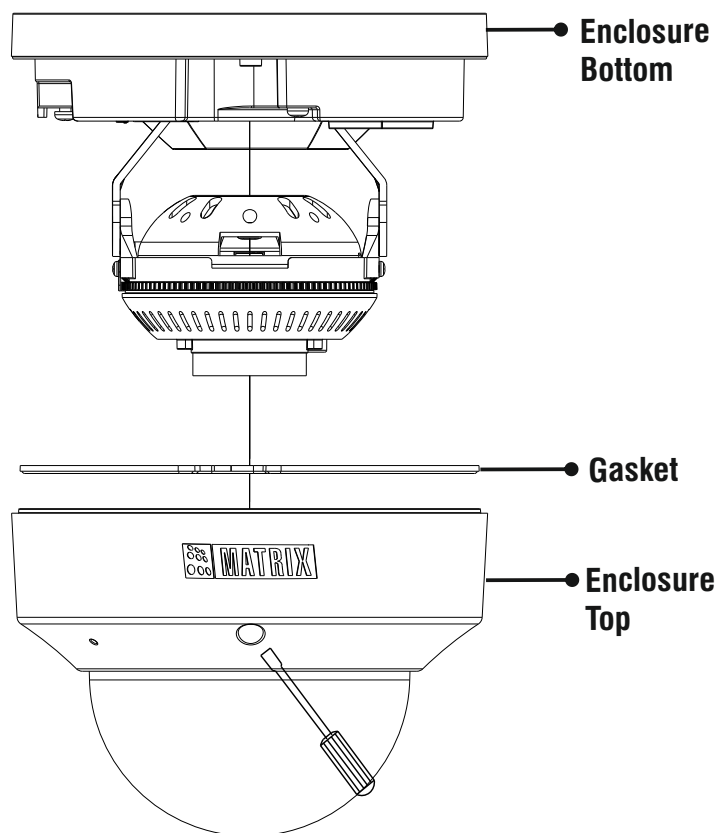
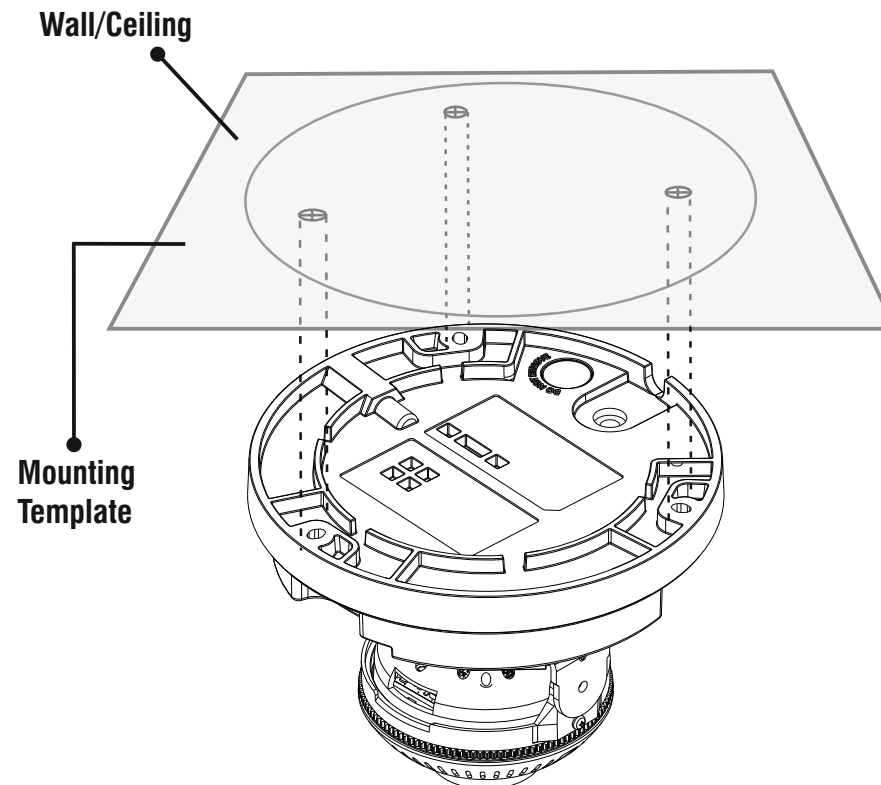


Figure 5



Step 5: 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

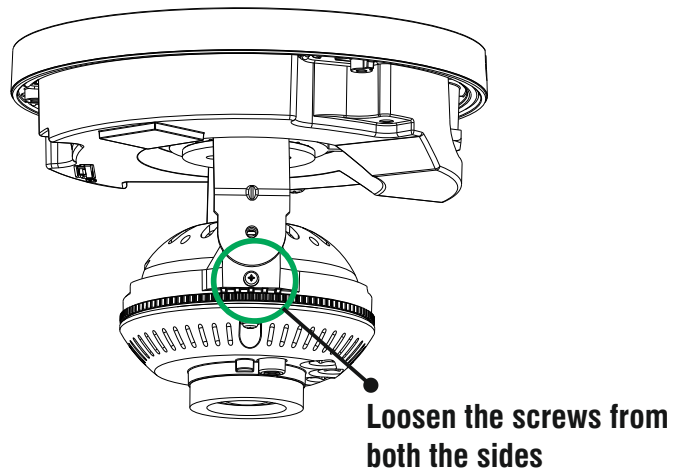
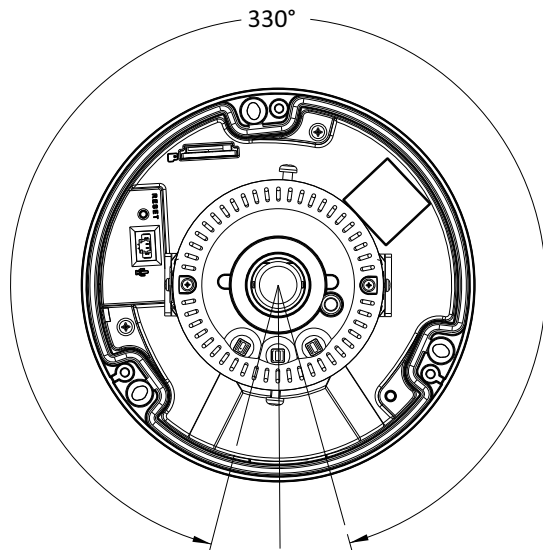


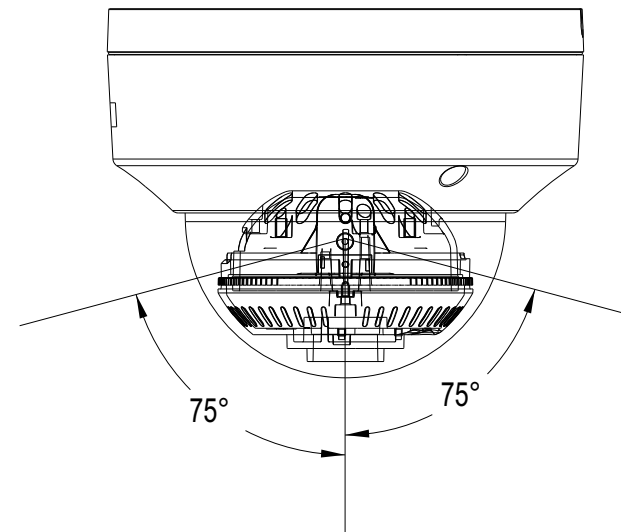
Figure 7



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 6: 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

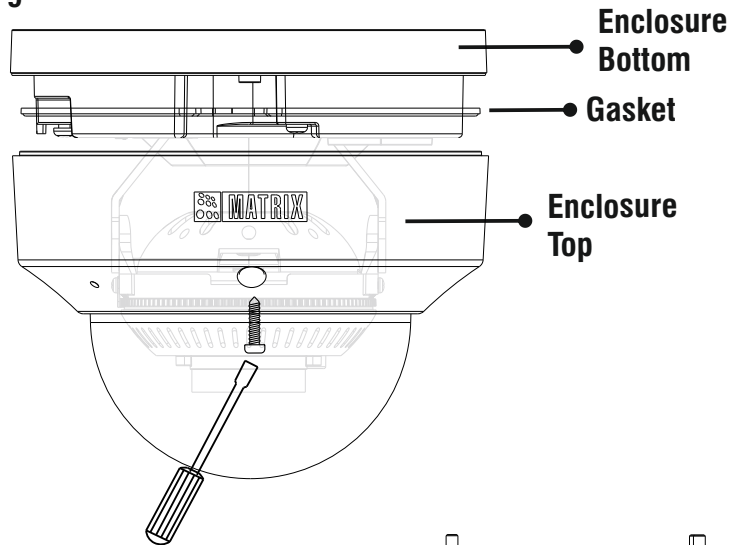
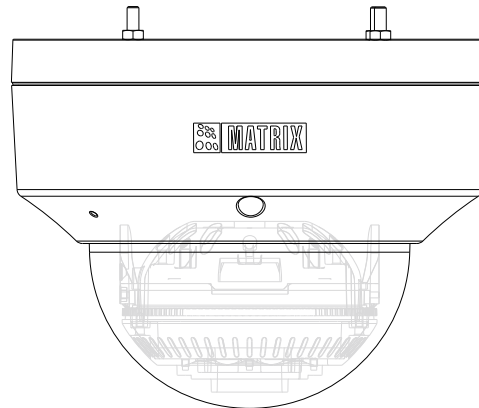


Figure 10



LED: CLASS1 (Category RS1)



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.

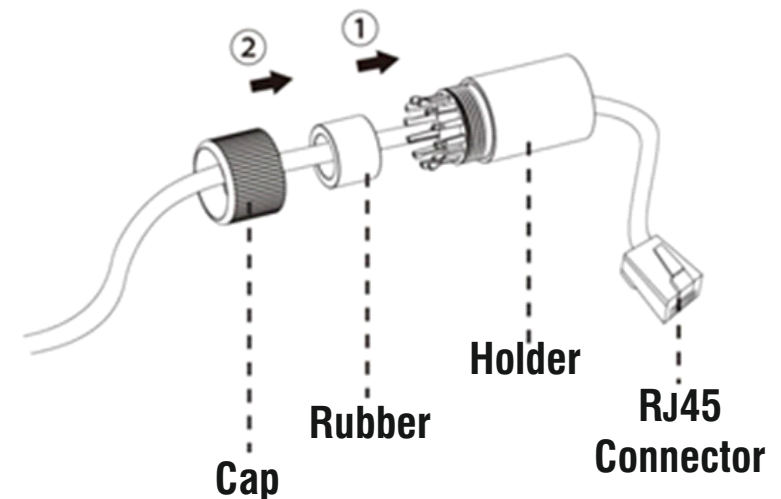
Use of controls or adjustment to the performance or procedure other than those specified herein may result in hazardous laser emission.

Step 7: Ingress Protection Accessory Installation

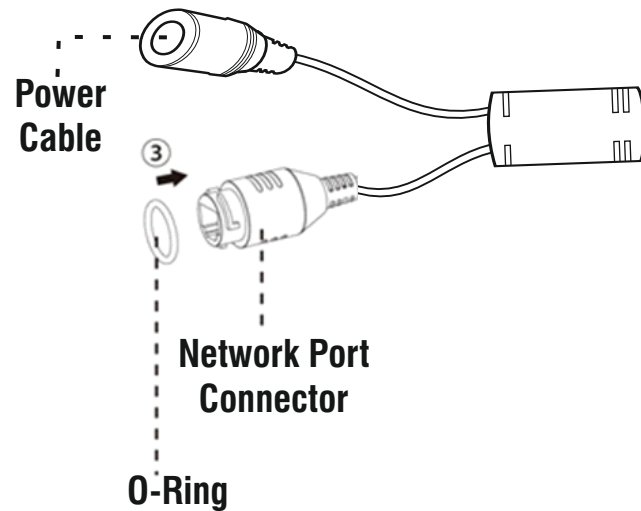
1. The Ingress Protection Accessory comprises of the following: Holder, Rubber, Cap and O-Ring.

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

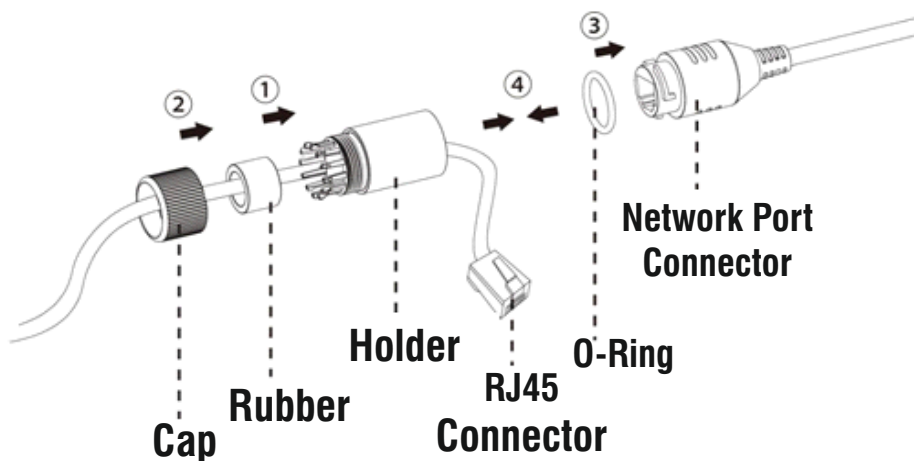
Now, insert the Rubber into the Holder and then place the Cap.



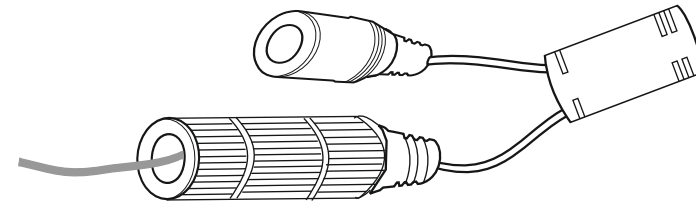
2. Affix the O-Ring on the Network Port Connector as shown below.



3. Insert RJ45 Connector into the Network Port Connector.




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

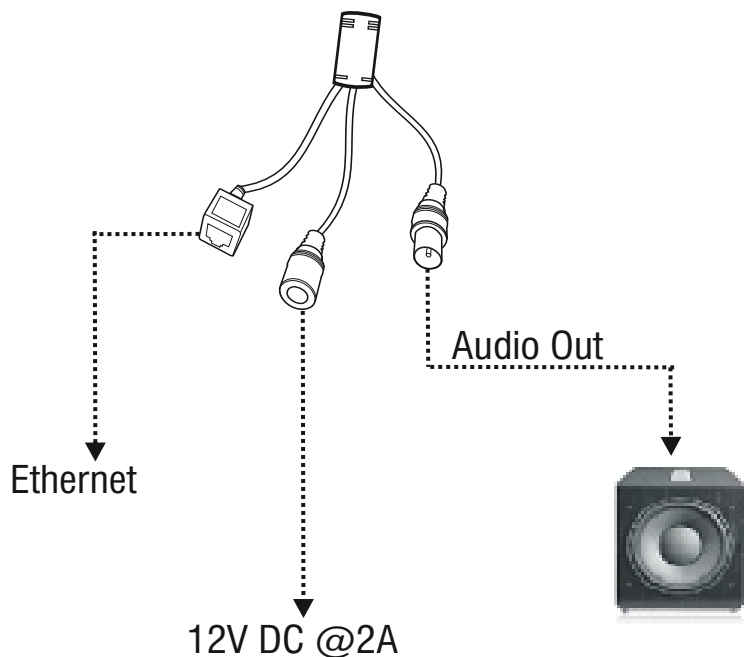


Step 8: Connecting the Cables

- Connect the **Ethernet** cable to LAN port and **Power** cable to the 12V DC power supply.
- In Premium variants, connect Audio OUT cable if required.

1. **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.



This camera also has a built-in Mic.

Power over Ethernet (PoE)

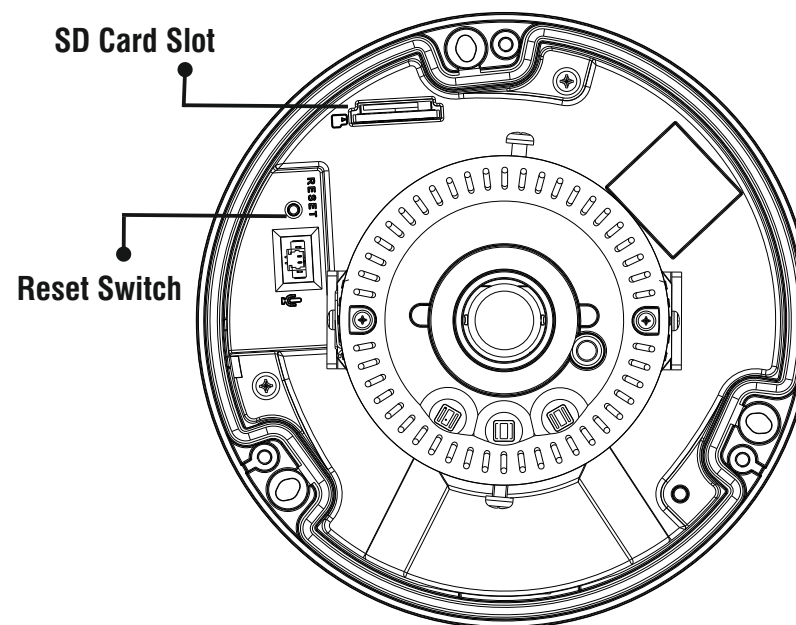
The IP camera is PoE- compliant, allowing transmission of power and data via a single Ethernet cable connected to PoE Switch.

Accessing Reset Switch and SD Card Slot

If you forget the IP Address or Login Credentials of camera, 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 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 when the camera is running, make sure you reboot the camera.

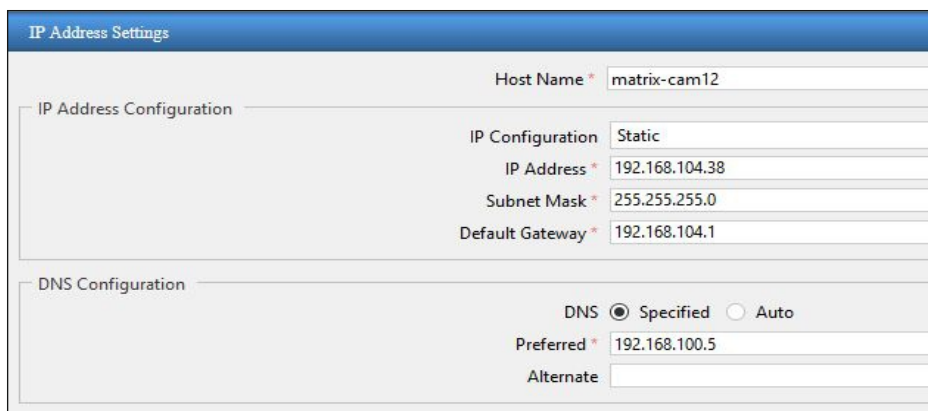
Figure 11



Network Configuration

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

- Once the camera is connected to the network, it will automatically be assigned a Dynamic IP Address 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 the camera.



The screenshot shows the 'IP Address Settings' web interface. It has a blue header bar with the title 'IP Address Settings'. Below the header, there are several configuration sections. The 'Host Name' field is set to 'matrix-cam12'. The 'IP Address Configuration' section is expanded, showing 'IP Configuration' set to 'Static'. Below this, the 'IP Address' is '192.168.104.38', 'Subnet Mask' is '255.255.255.0', and 'Default Gateway' is '192.168.104.1'. The 'DNS Configuration' section is also expanded, showing 'DNS' set to 'Specified' (with a radio button selected) and 'Auto' (with a radio button unselected). Below this, the 'Preferred' DNS is '192.168.100.5' and the 'Alternate' field is empty.

Accessing via Web Browser

The IP cameras are supported by Microsoft Windows Operating System.

- Run the Web Browser as Administrator.
- In the browser address bar, type the 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.

English ▼

MATRIX SATATYA
Persistent Vision

admin

•••••

☒ Remember Password

LOGIN

**You are accessing camera over Non-Secure mode
It is recommended to use Secure mode**

Supported in IE 8.0 - 11.0, Mozilla Firefox 85.0 - 113.0, Google Chrome 88.0 - 113.0
Screen resolution: 1366 x 768 and above(Recommended)

- A pop-up appears as shown below. Click **Install**.



- Another pop-up appears, wherein it seeks your permission.
- Click Yes to allow.

- 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
Power Supply		
Adapter *	12V DC	
PoE	Yes (802.3af, Class 2)	
Power Consumption	2MP	12VDC; Max: 5.5W PoE Supported
	5MP	12VDC; Max: 5.5W PoE Supported
	8MP	12VDC; Max: 8W PoE Supported
Connectors		
Ethernet	Yes	
WiFi	No	
Audio IN	No	In-Built Microphone
Audio Out	No	Yes

* Use BIS, CE, ROHS and FCC approved Adapters.

Technical Specification

Specification	Standard	Premium
Storage		
NAS	Yes	
SD Card	Yes	Yes
Casting		
Material	Aluminium Die Cast	
Colour	Infinity White	
Physical		
Dimensions	Diameter x Height: 126mm x 100mm	
Weight	0.74kg	
Software		
Focus	Yes (Manual)	
ONVIF Profile	S, G, T	
Environmental		
Operating Temp.	-30 °C to +60 °C	
Humidity	5 to 95% RH	

Certifications

CE	Yes
FCC	Yes
BIS	Yes
IP67	Yes
IK10	Yes

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.



TELECOM | SECURITY

MATRIX COMSEC PVT LTD

Head Office

394-GIDC, Makarpura, Vadodara, Gujarat, 390010, India

Ph: (+91)1800-258-7747

Email: Tech.Support@MatrixComSec.com

www.matrixcomsec.com