SATATYA All-Color IP-Camera
The Persistent Vision

MATRIX

SECURITY SOLUTIONS
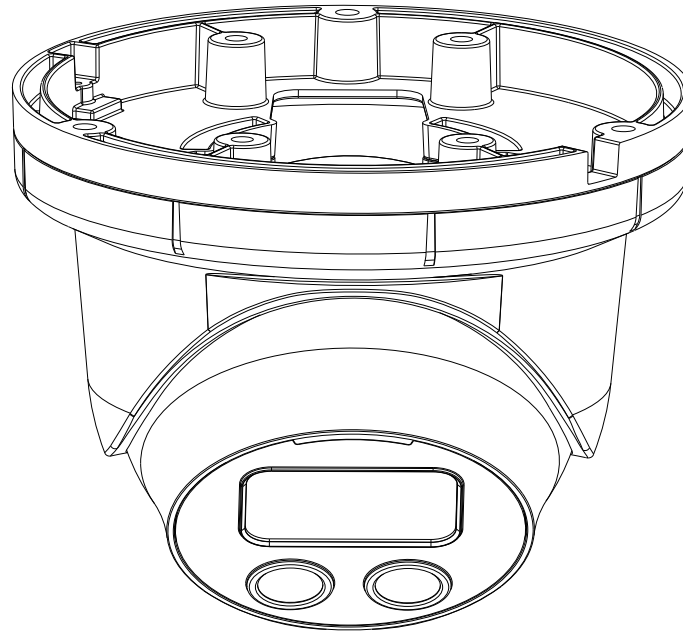
Safety Instructions

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 sensor modules 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.

Consignes de sécurité

Ces instructions ont pour but de garantir que l'utilisateur peut Utilisez le produit correctement pour éviter tout danger ou perte de propriété.

⚠️ Précautions

- Vérifiez que la tension d'alimentation est correcte avant d'utiliser l'appareil photo.
- Évitez de placer des câbles trop près d'une tension magnétique ou élevée périphériques, pour réduire le bruit d'image indésirable.
- Ne touchez pas les modules de capteur avec les doigts. Pour le nettoyage, utilisez nettoyer chiffon et essuyez-le doucement.
- Ne montez pas l'appareil photo avec l'objectif dirigé vers le soleil ou vers lumière pour éviter d'endommager le capteur.
- N'exposez pas l'appareil photo à des températures inférieures ou supérieures à ses température de fonctionnement.
- Ne montez pas la caméra à proximité d'un radiateur ou d'un appareil de chauffage.

🔔 Attention

- Dans l'utilisation du produit, vous devez être en stricte conformité avec les réglementations de sécurité électrique de la région et de la nation.
- Ne connectez pas plusieurs périphériques à un seul adaptateur secteur, provoquer une surchauffe ou un risque d'incendie.
- Si de la fumée, des odeurs ou du bruit émanent de l'appareil, éteignez-le une fois, débranchez le câble d'alimentation et contactez le service d'assistance le plus proche centre.
- Pour éviter un choc électrique, éteignez l'alimentation avant de connections electriques.

Contents

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.

Know your Camera

Figure 1
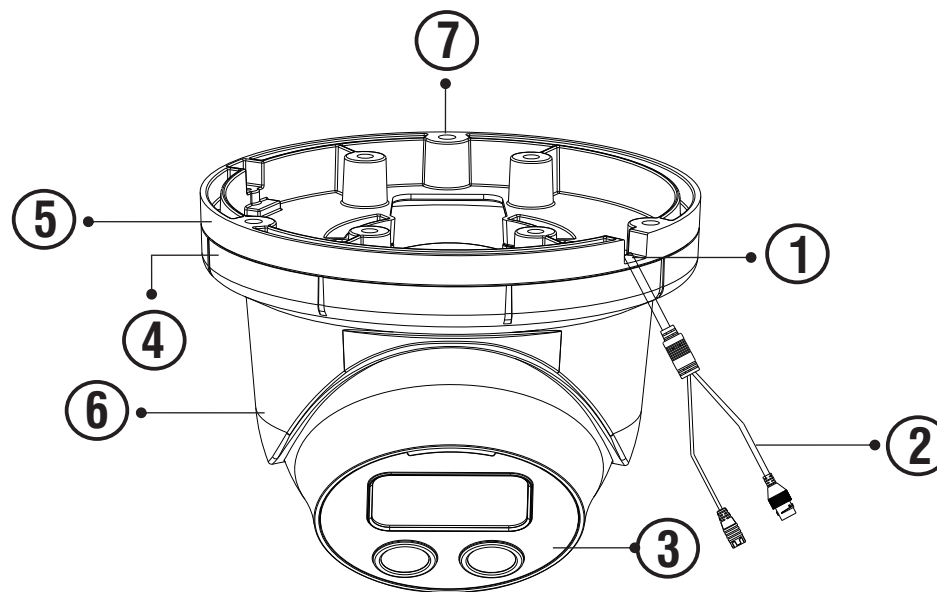
1. Cable Guide
2. Cable Assembly
3. Front Glass Cover
4. Trim Ring

5. Enclosure Bottom
6. Enclosure Top
7. Hole for Mounting

What your Package Contains

- SATATYA All-Color 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, Pliers, Wire-cutter, Ladder.
- Necessary Cabling.

Camera Variants

The SATATYA All-Color IP-Camera's **Standard** variants are:

- 2MP variant with 2.8mm, 3.6mm and 6.0mm fixed focal length.
- 5MP variants with 2.8mm, 4.0mm and 6.0mm fixed focal length.

💡 You can capture near and broader view with lens of 2.8mm and 3.6 mm/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 available camera variants are listed in the table below:

2MP Camera Variants

Type of Lens	Focal Length	Standard
Fixed	2.8mm	MITC20FL28CWS
Fixed	3.6mm	MITC20FL36CWS
Fixed	6.0mm	MITC20FL60CWS

5MP Camera Variants

Type of Lens	Focal Length	Standard
Fixed	2.8mm	MITC50FL28CWS
Fixed	4.0mm	MITC50FL40CWS
Fixed	6.0mm	MITC50FL60CWS

Installation Instruction

The wired LAN hub providing Power over the Ethernet (PoE) in accordance with IEEE 802-3af shall be a UL listed device with the output evaluated as a limited power source as defined in UL60950-1 or Ps2 as defined in UL62368-1.

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 by PoE switch.
- 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.

Step 3: Installing Mounting Template

- Stick the Mounting Template at the exact location of camera installation. The location can be a Ceiling or a 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

Hole for Concealed Wiring   Wall/Ceiling

Mounting Template
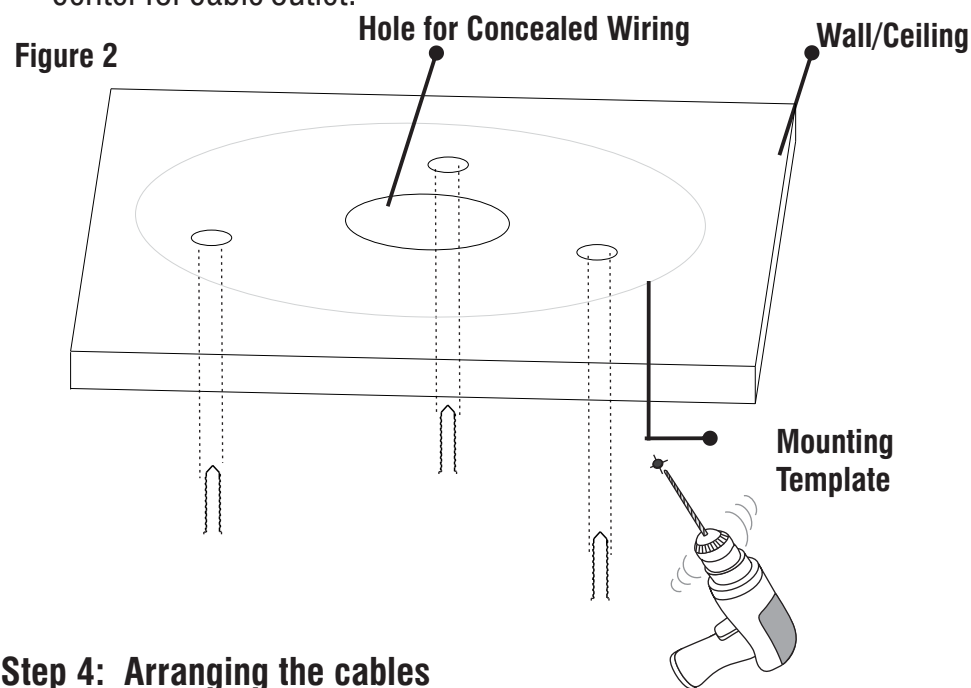
Step 4: Arranging the cables

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 through the center hole and make proper connection with LAN Cable, see **Figure 3b**.
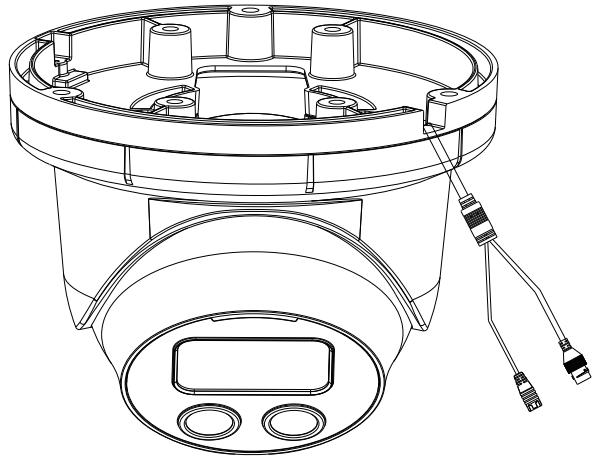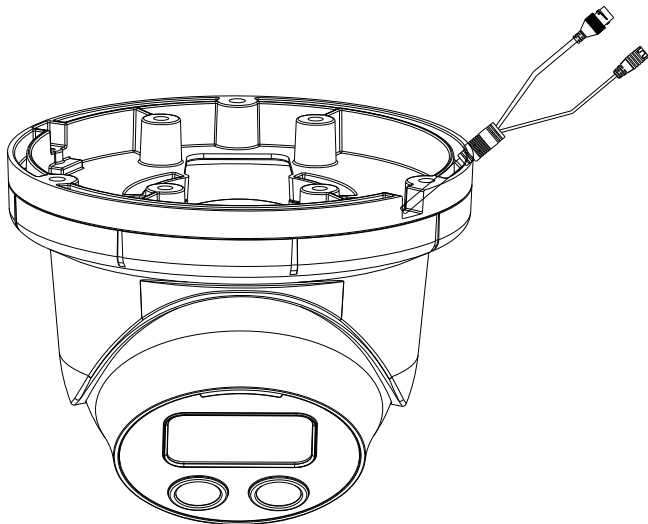
Figure 3a

Figure 3b

Step 5: Mounting the Bottom Enclosure

- Detach Enclosure Bottom, Trim Ring and Enclosure Top by rotating Trim Ring towards left.
- Now, attach the bottom of the enclosure with the three screws provided along with the camera, see **Figure 4** and **Figure 5.**
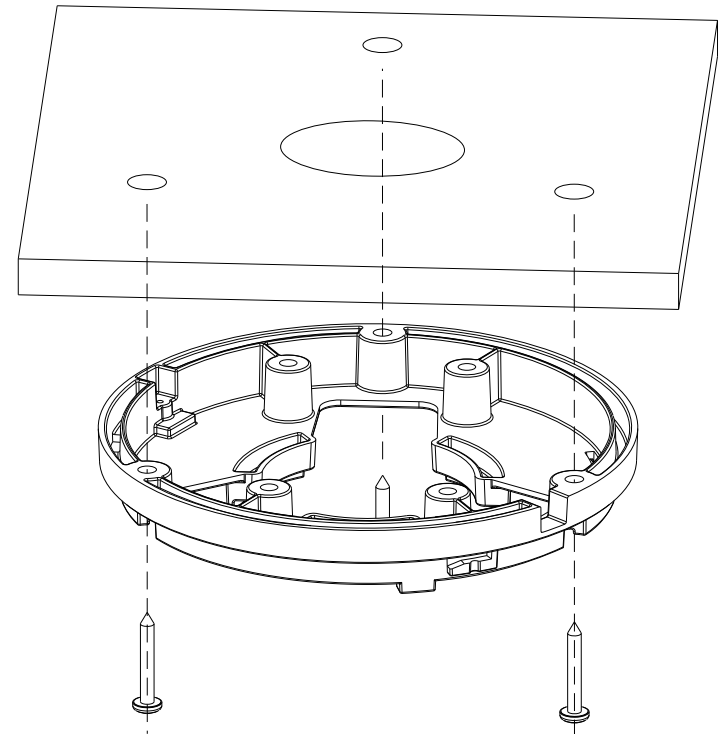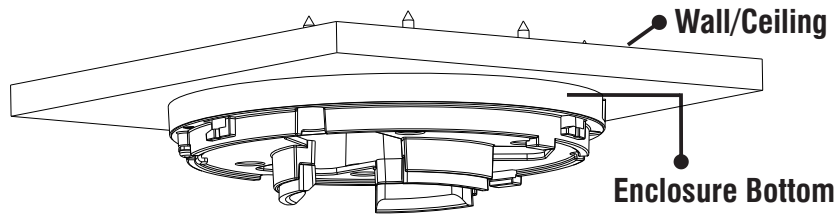
Figure 4

Figure 5

Wall/Ceiling

Enclosure Bottom

Step 6: Adjusting Camera Angle

Since the camera is in a spherical shape, there is complete flexibility with lens's orientation. You can position the camera as per your viewing angle.

A. PAN Movement

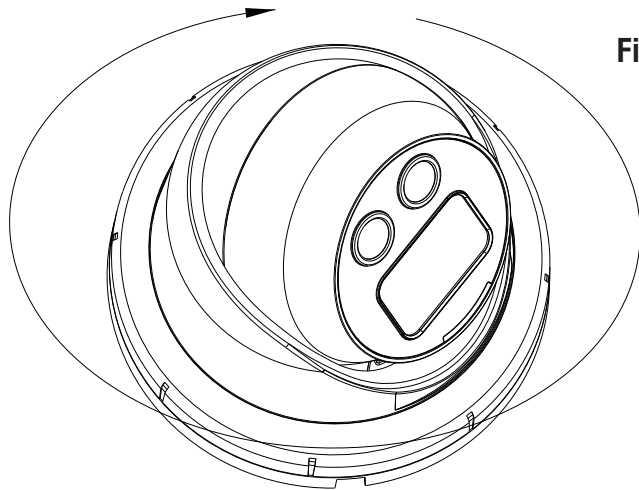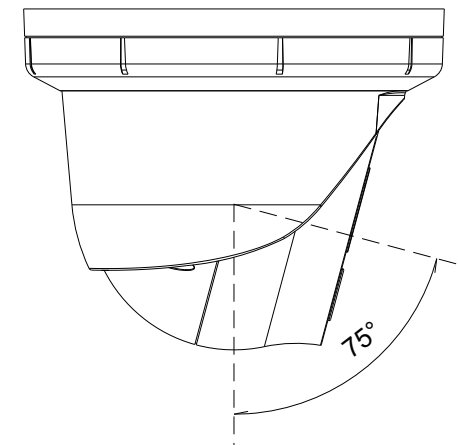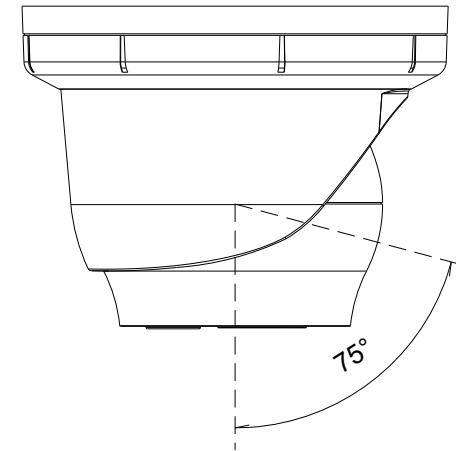For **PAN Movement** you can move the camera from 0^0 to 360^0, see **Figure 6**.

Figure 6

B. Tilt Movement

For **Tilt Movement**, move the camera angle from minimum 0^0 to maximum 75^0, see **Figure 7**.
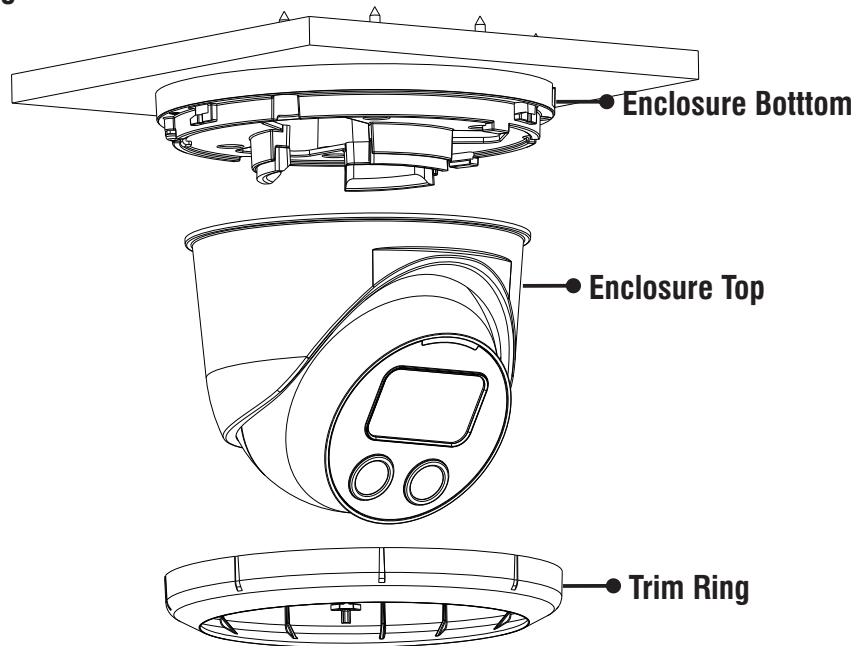
Figure 7

$75^°$

$75^°$

Step 7: Mount the Camera

- Align the Trim Ring and Enclosure Top with Enclosure Bottom as shown in **Figure 8.**
- First affix Enclosure Top with Enclosure Bottom using a screw to lock the desired position in such a way that sphere ball is unable to move. You need to turn the screw 05 to 06 times using a screwdriver. See **Figure 9a.**
- For Wall Mount, see **Figure 9b.**
- Now rotate Trim Ring towards right to lock all the parts of Camera, See **Figure 10**.

Figure 8

Enclosure Botttom
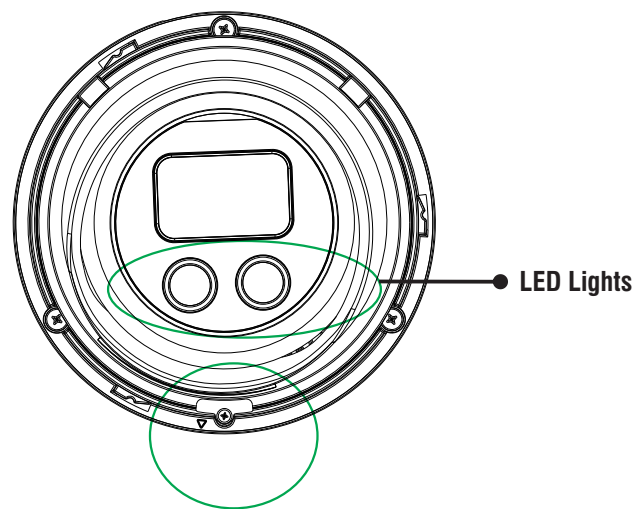
Enclosure Top

Trim Ring

Ceiling Mount
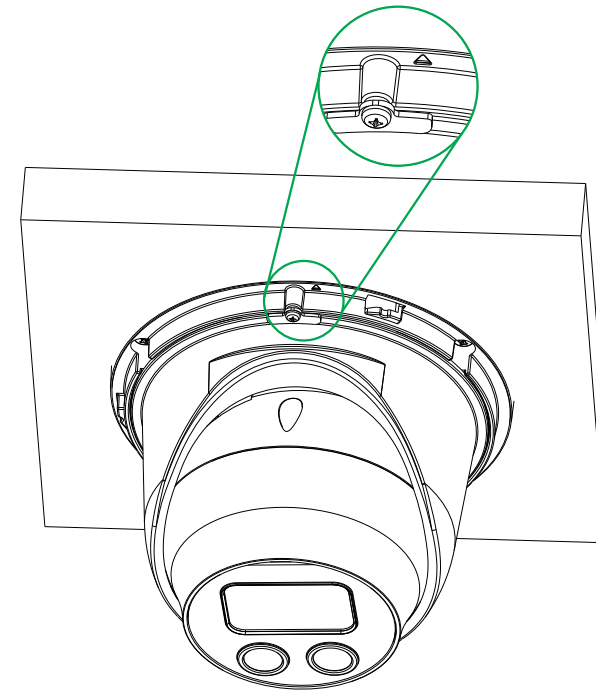
Figure 9a

This is the default factory position of the Lock and Arrow for Ceiling Mount. Make sure the camera is mounted in a position wherein the Arrow and Lock face the user.
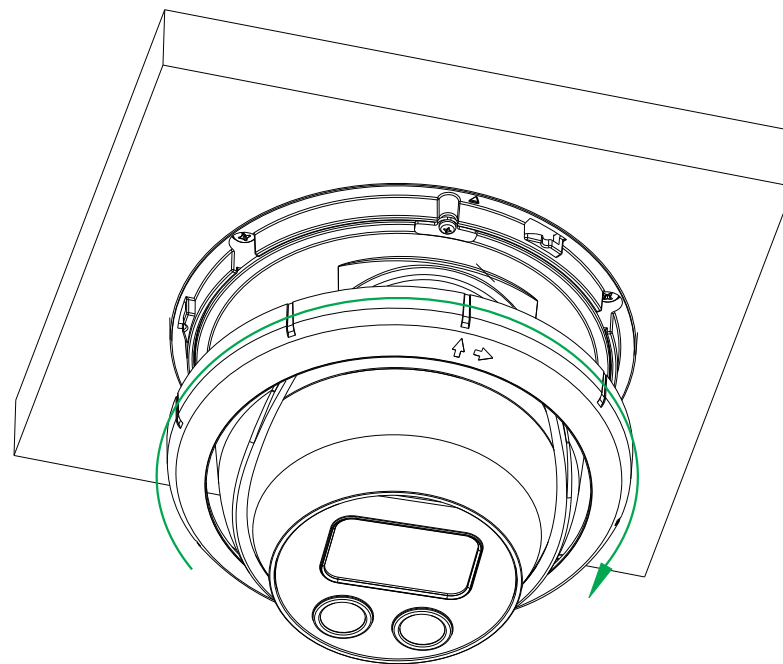
Wall Mount

LED Lights

Make sure the LED lights are rotated and placed in the position as displayed in **Figure 9b**.

Make sure the camera is mounted in a position wherein the Arrow and Lock are at the lower end as displayed in **Figure 9b.**

Figure 10

Accessing Reset Switch

If you forget the IP Address or Login credentials then the camera can be reset to factory default settings using the Reset Switch.

- The Reset Switch is connected along with the main input Cable Assembly as shown in **Figure 11.**
- There is a rubber cap on the Switch to protect it from dust, see **Figure 12**. Remove the cap and press the Reset Switch for minimum 5 sec and release the Switch to reset the camera settings to default.
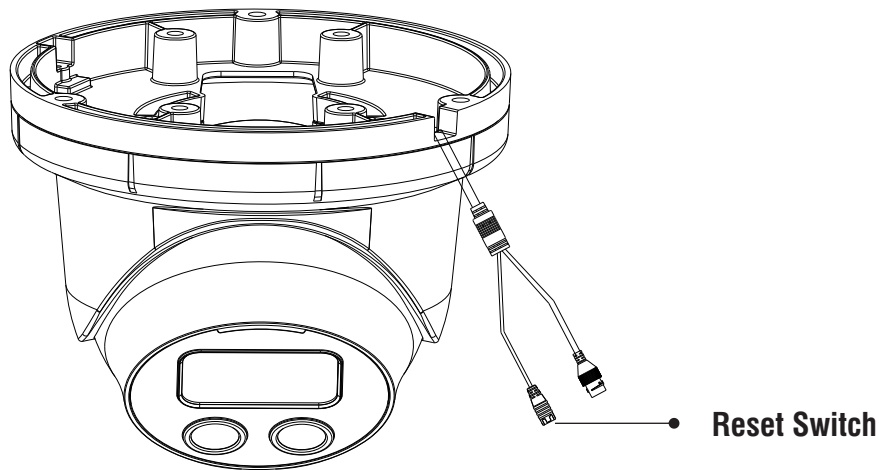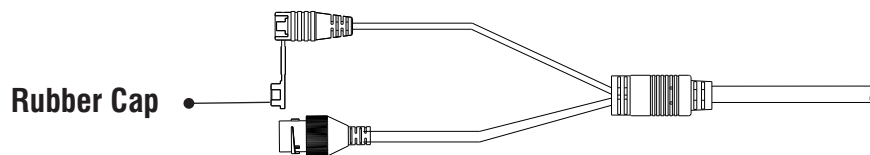
Figure 11

Reset Switch

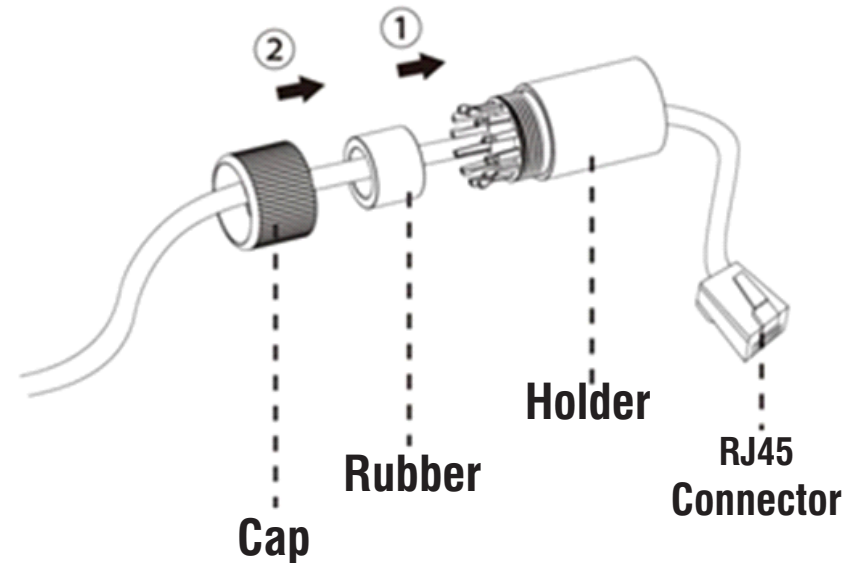**Figure 12**

**Rubber Cap**

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.

Holder

RJ45 Connector

Rubber

Cap

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

Reset Switch

Ethernet Connector
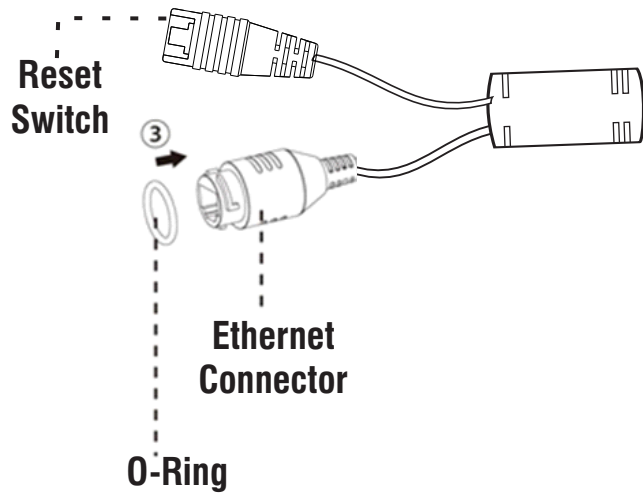
O-Ring

3. Insert RJ45 Connector into the Ethernet Connector.

Ethernet Connector

Holder

O-Ring

Rubber

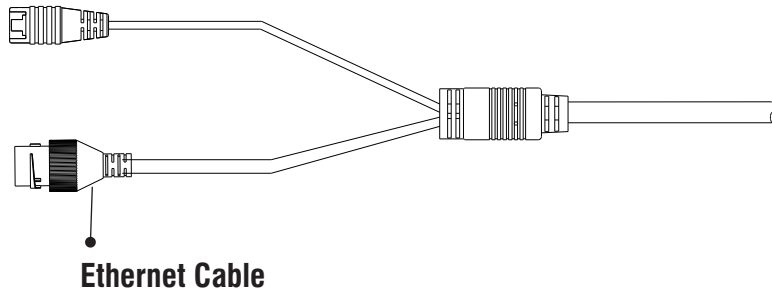**RJ45 Connector**

Cap
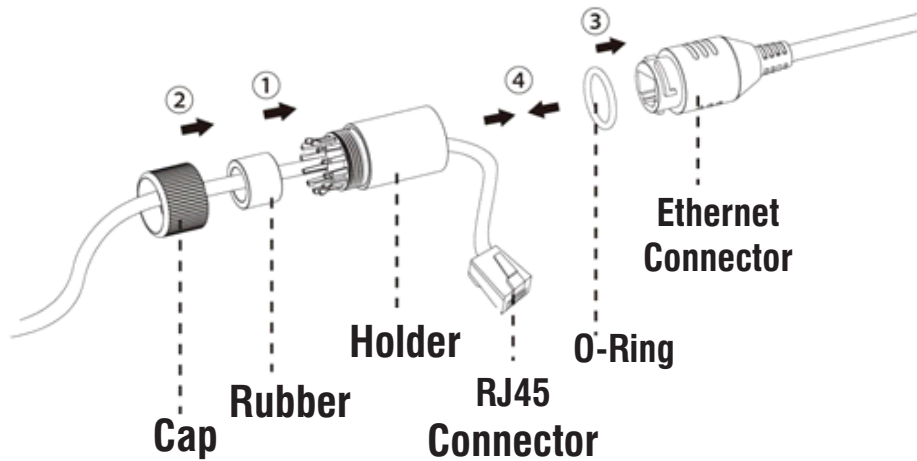
4. The Ingress Protection Accessory is connected with the camera.
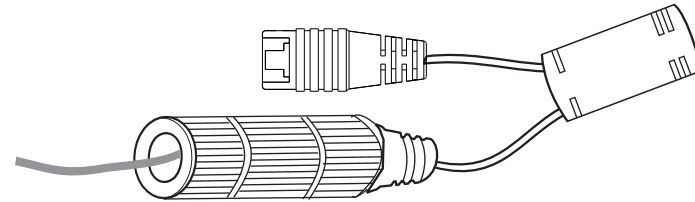
Powering the Camera

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.

Ethernet Cable

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.

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, 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 camera.
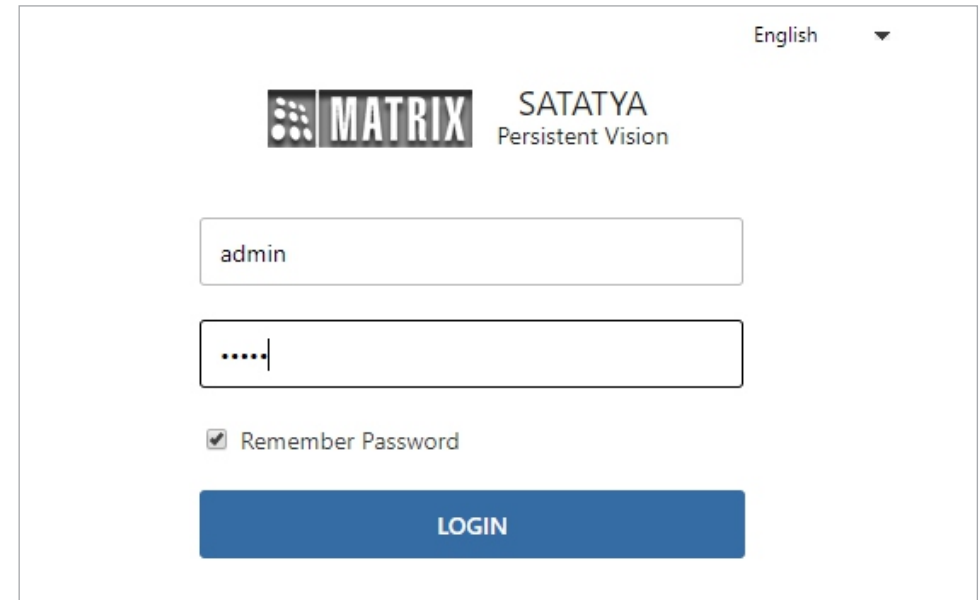
Accessing via Web Browser

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.

- 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.
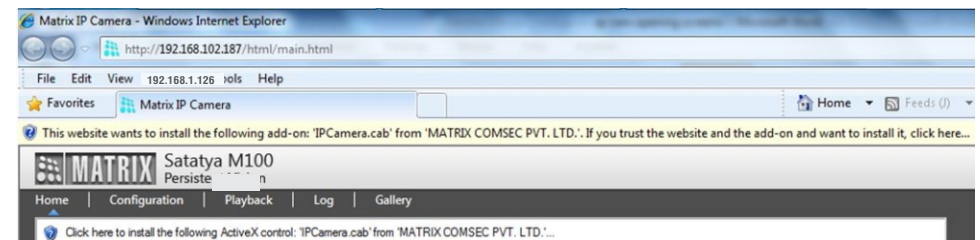
- The browser will ask you to install ActiveX control.
- Click on Run Add-on to install the plugin.
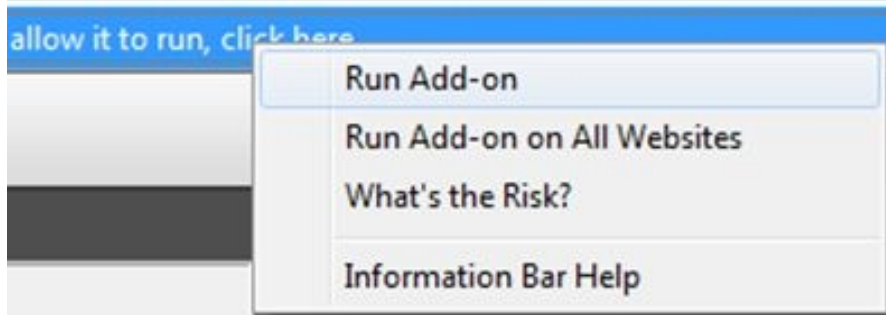
- The ActiveX control will get installed on your PC.
- Now you can **Run** the plugin.

- Install the camera software by clicking on **Install**.

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

- The camera configuration can be set from the Configuration tab.

Technical Specification

Specification	Standard
Power Supply	
PoE	Yes (802.3af, Class 2)
Power Consumption	**2MP:** PoE(36V to 57V)(0.2A to 0.1A); max:6.5W
	5MP: PoE(36V to 57V)(0.2A to 0.1A); max:7.5W
Connectors	
Ethernet	Yes
WiFi	No
Audio In	No
Audio Out	No
Casting	
Material	Metal
Colour	Infinity White
Physical	
Dimensions	138.58mm x 118.97mm (Diameter x Height)
Weight	720gm (Approx.)
Storage	
NAS	Yes
SD Card	No

Technical Specification

Specification	Standard
Software	
IVA Events	Motion/No Motion Detection, View Tamper Detection, Trip Wire/No Trip Wire Detection, Zone/Object Intrusion
ONVIF Profile	S, G, T
Environmental	
Operating Temp.	-30 $^{\circ}$C to +60 $^{\circ}$C
Storage Temp.	-35 $^{\circ}$C to +60 $^{\circ}$C
Humidity	95% RH

Disposal of Product after End-Of-Life
WEEE Directive 2002/96/EC

The product refered 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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