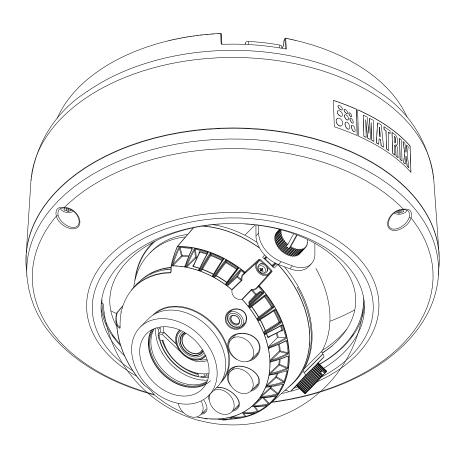
SATATYA Project Dome IP-Camera

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 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, provoguer 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.

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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.

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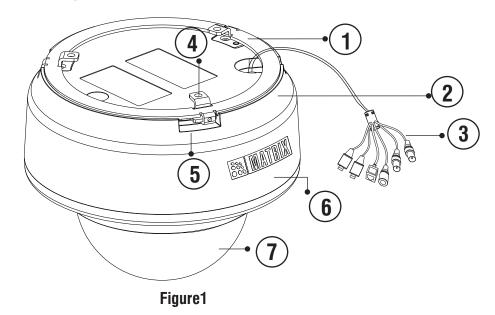
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Warranty

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:

https://www.matrixcomsec.com/warranty/#IP-video-surveillance

Know your Camera



- 1. Mounting Ring
- 2. Base Plate
- 3. Cable Assembly
- 4. Hole for Mounting
- 5. Base Plate grove for fitting Mounting Ring
- 6. Camera Body
- 7. Lens Enclosure

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

The **Premium** variant consist of 6 connectors: Power Connector, Ethernet Connector (POE), Audio IN, Audio OUT, Alarm IN and Alarm OUT.

What your Package contains

- SATATYA Dome IP Camera Unit
- Wall Mounting Template
- Wall Mounting Screws with Screw Grip (3 nos.)
- Cable Accessories compliant with Ingress Protection
- Ceiling Support Plate
- Ceiling Support Plate Screws (M4x35 pan-PH)
- Ingress Protection Accessories (4 parts)

Things you will Need

- A Power Drill, Screwdriver Set, Pliers, Wire-cutter, Ladder, Allen Key number 2.5
- 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 Dome Cameras are available in following variants:

- **1. Standard** Variant used for General Surveillance in Discipline/Safety Precaution.
- **2. Premium** Variant used for Objective Surveillance in Entry/Exit Monitoring, Periphery Monitoring, Productivity Monitoring, Unethical Practices Monitoring.



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

With lens of 6mm 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 8MP Camera variants are listed in below table,

8MP Camera Variants

Type of Lens	Focal Length	Standard	Premium
Fixed	2.8mm	CIDR80FL28CWS	CIDR80FL28CWP
Fixed	3.6mm	CIDR80FL36CWS	CIDR80FL36CWP
Fixed	6.0mm	CIDR80FL60CWS	CIDR80FL60CWP
Motorized Varifocal	4.3-10 mm	NA	CIDR80ML12CWP

Installation Instruction

- **1.** This product is intended to be supplied by a UL listed power supply unit marked "Class 2" or "LPS" or "PS2" and rated 12VDC, 2A min.
- 2. 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.

You can install the camera where cables are running through the interior of the wall or ceiling. Else cabling has to be done through POE.

Step 2: Prepare for Installation

Ensure that the necessary cabling to connect the camera to LAN port and Power outlet are in place. The connecting cables from the monitoring site should be ready at the installation site.

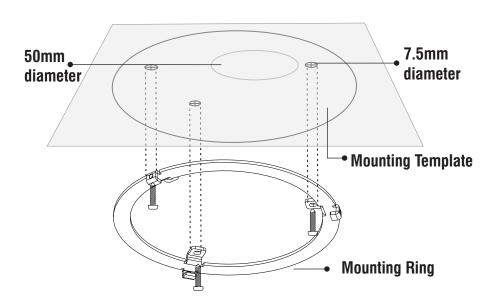
You can insert SD card in camera to store recordings during network failover and to upload image or clip as a result of event trigger.

See page 22 to view the SD card slot in camera.

Step 3: Installing Mounting Template

- Stick the Mounting Template on the desired installation surface.
- Drill three 7.5mm diameter holes through the markings of the Mounting Template on Wall or Ceiling. (Drill 50mm diameter hole also if installing on false ceiling)
- Insert the screw grips in the holes you drilled.

Figure 2



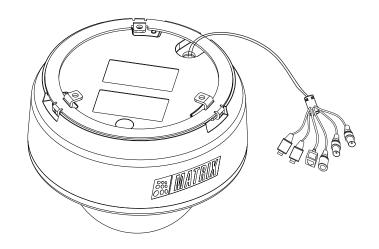
 Align the screw holes on the base plate with those you drilled on the installation surface.

Step 4: Mounting the Camera

A. On Wall/Ceiling

- To avoid cable damage, take the Power, Ethernet, Audio IN, Audio OUT, Alarm IN, Alarm OUT cables of the camera through the cable hole on the base plate, see **Figure 3**.
- If the cabling is concealed, prior to the installation pull the cable off the hole drilled on the installation surface.

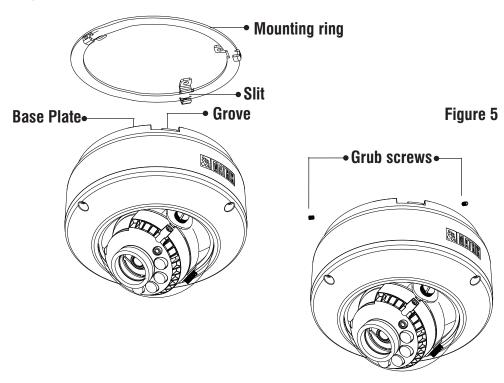
Figure 3



- Now secure the base plate of the camera to the mounting ring.
 Interlock the mounting ring slit to the groove on the base plate, see Figure 4.
- Turn the camera body clockwise to fit in the slit of mounting ring.
- Finally fit the base plate with three M3x4 Grub screws, see **Figure 5**.

Figure 4

11



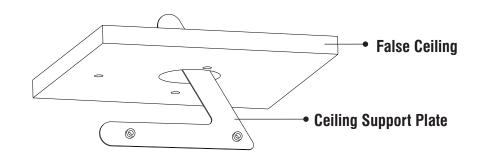
B. On False Ceiling (Recommended Method)

For installing Dome Camera on false ceiling follow the below mentioned steps,

- Install the mounting template on the false ceiling.
- Drill the holes through the markings of the mounting template on the false ceiling.
- By this you will get one 50mm diameter and three 7.5mm diameter holes on the false ceiling.

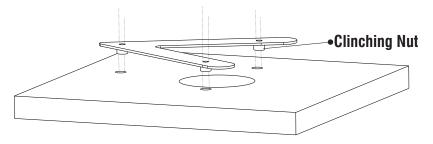
• Insert the Ceiling Support Plate through the 50mm diameter hole as shown in **Figure 6**.

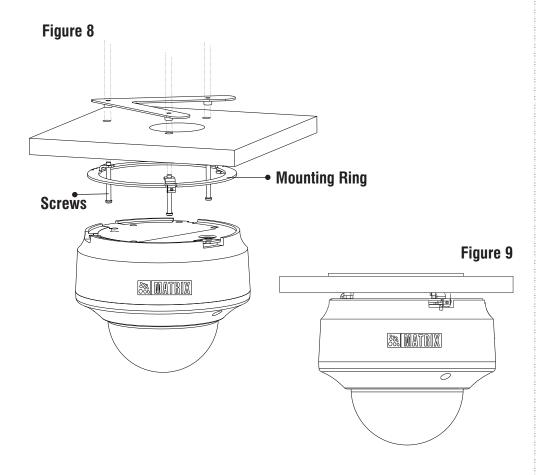
Figure 6



- Place the Ceiling support plate over the false ceiling with keeping the clinching nuts towards the holes on mounting template.
- Move Ceiling Support Plate manually as the holes on Ceiling Support Plate align with the holes (7.5mm) on mounting template as illustrated in Figure 7.

Figure 7





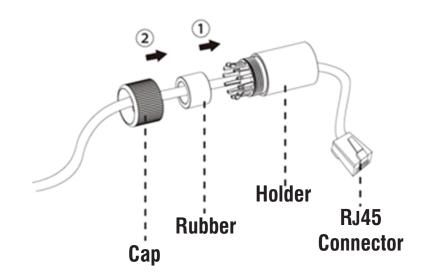
- Align the screw holes of the mounting ring with the holes (7.5mm) on mounting template and insert the screws through the false ceiling as illustrated in Figure 8.
- It is recommended to use M4 Pan-PH screws of length 35mm.
- Tighten the screws.
- Finally fix the Camera to the mounting ring as illustrated in Figure 9.

Step 3: Ingress Protection Accessory Installation

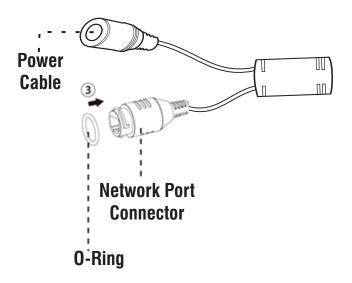
1. The Ingress Protection Accessory comprises of the following: Holder, Rubber, Cap and O-Ring.

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

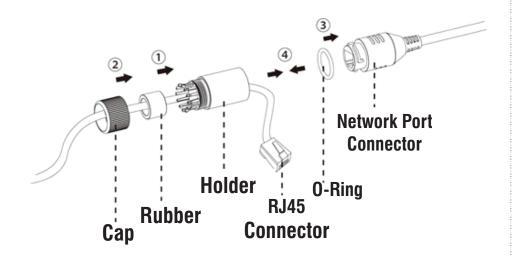
Now, insert the Rubber into the Holder and then place the Cap.



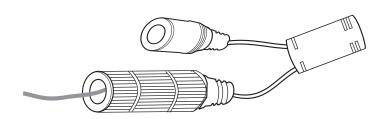
2. Affix the O-Ring on the Network Port Connector as shown below.



3. Insert RJ45 Connector into the Network Port Connector.



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

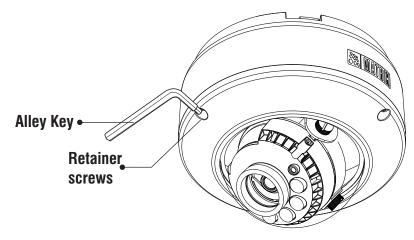


Adjusting Camera Angle

Step1: Opening Lens cover

- Use the Allen Key to loosen the Retainer screws on 3 sides of camera body.
- The retainer screws will still remain loosely connected.
- Open the lens casing body.
- Now you can adjust the camera angle.

Figure 10



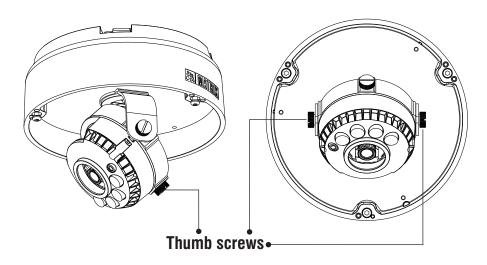
LED: CLASS1 (Category RS1)



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.

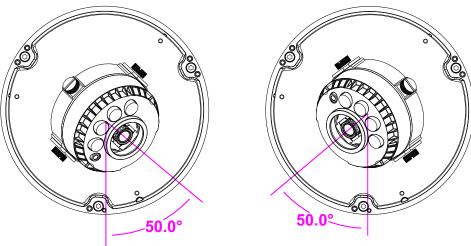
Figure 11



Step2: PAN, TILT movement

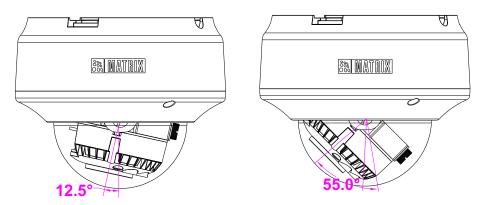
- Loosen thumb screws on both sides of lens for PAN movement, see **Figure 11**.
- For PAN movement you can move the camera to 50 degrees on one side, see Figure 12. To capture other side view, you have to open the camera body from the mounting ring, turn the body and mount to other side.

Figure 12



• For **Tilt movement** you can move the camera from 12.5 to maximum 55 degrees, see **Figure 13**.

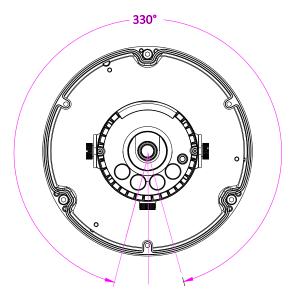
Figure 13



• If the horizontal view is not aligned i.e. the view is tilted, then you can adjust the view by loosening the bottom thumb screw and adjusting the lens accordingly.

• You can rotate the camera to 330 degrees, see **Figure 14**.

Figure 14



Powering the Camera

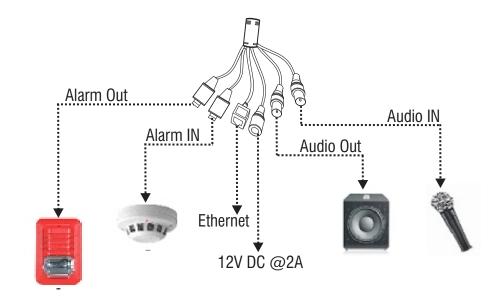
 Connect the **Ethernet** cable to LAN port and **Power** cable to the 12V DC power supply.

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, Professional and Enterprise variants; connect Audio I/O and Alarm I/O cables if required.

- **1.** You can connect the **Audio Input** device such as Mic to the Audio input cable of the camera. The audio when enabled will be recorded with the video and will be available at the monitoring location.
- **2.** You may connect the **Audio Output** device such as earphone or speaker to the Audio Output cable of the camera. This will generate audio received from the network.
- **3.** To detect alarm events you can connect a sensor device to the **Alarm IN** cable of the camera.
- **4.** To get alerts on alarm you can connect the alarm sounding device such as hooter or siren to the **Alarm OUT** cable of the camera.



- If devices such as Mic and Speaker can be connected to Audio IN and Audio OUT, you may need to connect an external power source if their power requirements are not fulfilled with the camera adapter.
- If devices such as Sensor and small Buzzers can be connected to Alarm IN and Alarm OUT, you may need to connect an external power source if their power requirements are not fulfilled with the camera adapter.

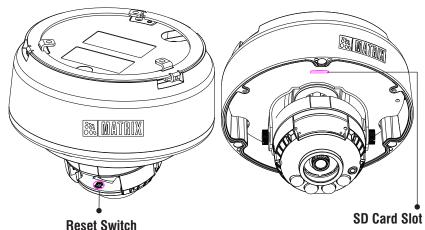
Accessing Reset Switch and SD card slot

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.

To access the Reset switch

- 1. Open the retainer screws and remove the lens cover, see Figure 10.
- **2.** The Reset switch is located near the lens, see **Figure 15**. Press the Reset switch for minimum 5 sec and release the switch to reset the camera to default settings.

Figure 15



3. You can insert the SD card in the slot to store your camera recordings, see **Figure 14**.

After Reset or SD card insertion, you may need to set the camera focus and camera angle.

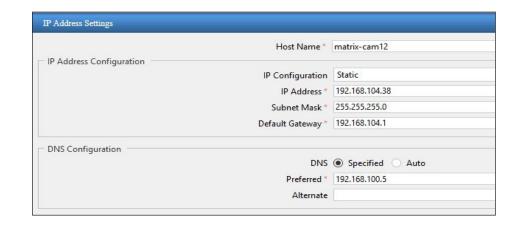
If you insert the SD card when the camera is running, make sure you reboot the camera.

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.

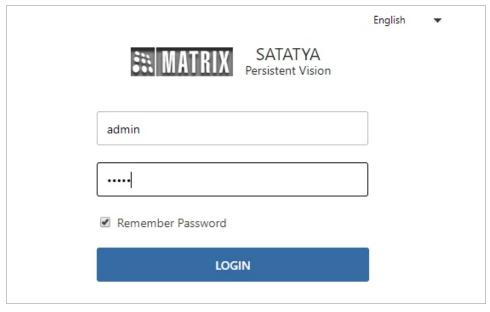
In Internet Explorer you can access the camera with Matrix ActiveX plugin. In other browsers you need to install Quicktime or VLC plugin.

Steps:

- 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.

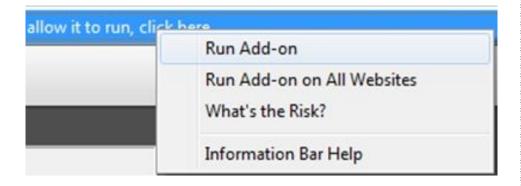


- Enter the User Name and Password.
- By default, you can login with User Name as admin, operator or viewer with the password as admin, operator and viewer respectively.
- Click on Login.





- 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 be opened and the live view will be displayed.



The camera configuration can be set from Configuration tab.

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Technical Specification

Specification	Standard	Premium		
Power Supply				
User Adapter	12V DC			
PoE	Yes (802.3af, Class 3)			
Power Consumption	12VDC 0.625A; Max: 7.5W PoE (36V to 57V)(0.24A to 0.15A); Max: 8.75W			
Connectors				
Ethernet	Yes			
WiFi	No			
Audio IN	No	Yes		
Audio Out	No	Yes		
Alarm IN	No	Yes		
Alarm Out	No	Yes		
Casting				
Material	Aluminum			
Colour	Infinity White			
Physical				
Dimensions	Diameter x Height:158mm x 134mm			
Weight	1.41kg			

^{*} Use BIS, CE, ROHS and FCC approved Adapters.

Technical Specification

Specification	Standard	Premium		
Storage				
NAS	Yes			
SD Card	Yes			
Software				
Auto Focus	No	Yes (Only for Motorized Varifocal)		
Auto Zoom	No	Yes (Only for Motorized Varifocal)		
IVA Events	Motion, Temper Detection, Trip Wire, Intrusion, Detection	Motion, Temper, Trip Wire, Intrusion, Loitering, Audio Exception Detection, Object Counting Missing/Suspicious Object		
ONVIF Profile	S, G			
Environmental				
Operating Temp.	-30 °C to +60 °C			
Humidity	Less than 95% RH			

^{*} Missing Object, Suspicious Object, Object Counting and Loitering Detection events will work only in CIDR80ML12CWP P2 variant of Matrix IP Camera.

Certifications







FCC



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