SATATYA Ruggedized 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.

A 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.

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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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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
- 2. Cable Assembly
- 3. Damping Rubber
- 4. Bottom Enclosure

- 5. Top Enclosure
- 6. Dome Glass Cover
- 7. Hole for Mounting

What your Package Contains

- SATATYA Ruggediszed IP Camera Unit
- Wall Mounting Template
- Wall Mounting Screws with Screw Grip (3 nos.)
- Cable Accessories
- Allen Key

Things you will Need

- A Power Drill, Screwdriver Set, Pliers, Wire-cutter, Ladder.
- Necessary Cabling.

Camera Variants

The SATATYA Ruggedized Camera's **Premium** variants are:

- 2MP variants 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 3.6/4 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:

Resolution with Type of Lens	Focal Length(mm)	Variants
2MP		
	2.8	RIDR20FL28CWP
Fixed	3.6	RIDR20FL36CWP
	6.0	RIDR20FL60CWP
5MP		
	2.8	RIDR50FL28CWP
Fixed	4.0	RIDR50FL40CWP
	6.0	RIDR50FL60CWP

Installation Instructions

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

- Make sure you arrange a cable suitable for both power and data transmission. This cable should have a M12 4-PIN Male connector on one end for the camera and an appropriate connector on the other end for the Mobile NVR device or client. Additionally, confirm that the cable is rated for power requirements of the camera.
- 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.



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



Step 5: Mounting the Bottom Enclosure

- To mount the camera, you need to detach the Top Enclosure.
- Use the Allen Key to loosen the Retainer screws on three sides of the camera body, as shown in **Figure 4a**.
- The Retainer screws will still remain loosely connected.
- Now, pull the Top Enclosure downwards. The Top and Bottom Enclosures are detached.



- Align the Bottom Enclosure with the mounting screw holes drilled earlier.
- Now, affix the Bottom Enclosure with the three screws provided along with the camera, see **Figure 4b** and **Figure 5**.

Figure 4b



Figure 4a

Figure 5



Step 6: Adjusting Camera Angle

Before you affix the camera Top Enclosure, you need to set the desired angle and position of the camera.

Loosen the camera screw with the help of a screwdriver, see **Figure 6**. Make sure you do not turn the screw more than 3 to 4 turns, else it may result in free fall.

Figure 6



PAN/Tilt/Rotation

For **PAN Movement** you can move the camera angle from -30° to $+30^{\circ}$.

Figure 7



For **Tilt Movement**, you can move the camera angle from minimum - 10° to maximum + 90° .

Figure 8



For **Rotation**, you can move the camera angle from -175° to $+175^{\circ}$.

Figure 9



After you set the PAN, Tilt and Rotation angles, tighten the camera screw.

Figure 10



Step 7: Accessing the 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.

• The Reset switch is located as shown in **Figure 11a.** Press the Reset switch for minimum 5 sec and release the switch to reset the camera to default settings.

Figure 11a



• You can insert the SD card in the slot to store your camera recordings, see **Figure 11b**.

Figure 11b



Step 8: Mount the Camera

- Align the Top Enclosure with Bottom Enclosure.
- Affix Top Enclosure with the Bottom Enclosure and tighten the Retainer screws using the Allen Key, see **Figure 12**.
- The Top and Bottom Enclosures are affixed together, see **Figure 13**.

Figure 12



Connecting the Camera

1. Power: Connect the M12 4-Pin Male connector of the cable to the M12 4-Pin Female connector of the camera cable. Make sure the pins are aligned, and if there is a threaded connection, make sure you secure it properly as M12 connectors often have threaded design for secure connection.

Connect the other end of the M12 4-Pin Male connector cable to the Mobile NVR device or client. Make sure the pins are aligned and secure the connection.

OR

You can also connect a 12V DC Adapter (not provided by Matrix) to power the camera. Make sure you use a BIS, CE, ROHS and FCC approved Adapter.

2. Audio Input: You can connect the **Audio Input** device such as Mike 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.

3. Audio Output: You can 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.

4. Alarm IN: To detect alarm events you can connect a Sensor Device to the **Alarm IN** cable of the camera.

5. Alarm OUT: 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 you are connecting devices such as Mic and Speaker to the 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 you are connecting devices such as Sensor and small Buzzers to the 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.

Powering the Camera

Connect the M12 4-Pin Male connector of the cable to the M12 4-Pin Female connector of the camera cable.

Make sure the pins are aligned, and if there is a threaded connection, make sure you secure it properly as M12 connectors often have threaded design for secure connection.

Connect the other end of the M12 4-Pin Male connector cable to the Mobile NVR device or client. Make sure the pins are aligned and secure the connection.

OR

You can also connect a 12V DC Adapter (not provided by Matrix) to power the camera. Make sure you use a BIS, CE, ROHS and FCC approved Adapter.



LED: CLASS1 (Category RS1)

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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 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.

	Host Name *	matrix-cam12
P Address Configuration		
	IP Configuration	Static
	IP Address *	192.168.104.38
	Subnet Mask *	255.255.255.0
	Default Gateway *	192.168.104.1
DNS Configuration		
	DNS	Specified O Auto
	Preferred *	192.168.100.5
	Alternate	

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.

MatrixIPCa	mera - Windows Internet Explorer	A Manual State
	e http://192.168.1.126	
File Edit	View Favorites Tools Help	
🚖 Favorites	🏈 MatrixIPCamera	

- 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 m It is recommended to use Secure mode	node

• 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	
Power Supply		
Power Consumption	2MP: Max:5W 5MP: Max:6W	
Connectors		
DC Connector	Yes (12V,2A)	
M12 4-Pin Female Connector	Yes	
Built-in-Mic	Yes	
Audio IN	Yes	
Audio Out	Yes	
Alarm Out	Yes	
Alarm In	Yes	
Casting		
Material	Aluminium Die Cast	
Colour	Infinity White	
Physical		
Dimensions	121mm x 119mm x 63mm (L x W x H)	
Weight	600 gm (Approx.)	

Technical Specification

Specification	Standard	
Storage		
NAS	Yes	
SD Card	Yes	
Software		
ONVIF Profile	S, G, T	
Environmental		
Operating Temp.	-30 °C to +70 °C	
Storage Temp.	-35 °C to +60 °C	
Humidity	95% RH	

Certifications

CE	Yes
FCC	Yes
BIS	Yes
IP68	Yes
IK10	Yes
NEMA 4X	Yes
EN45545-2 (HL2/HL)	Yes
EN50155	Yes

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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