

VPort P07-2 Series Quick Installation Guide

Moxa IP Camera

Version 1.0, March 2026

Technical Support Contact Information
www.moxa.com/support



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P/N: 1802000071010



Overview

The VPort P07-2 Series is a range of compact, 2-megapixel (1920 x 1080), H.265/H.264/MJPEG dome IP cameras designed for mobile video surveillance applications. These cameras are compliant with EN 62262 IK10, mandatory sections of EN 50155, and support a -40 to 60°C operating temperature range. With a rugged M12 Ethernet port, ONVIF Profile S, T, M standardization, PoE power inputs, IP66-rated housing, and the changeable fixed focal-length lens, the VPort P07-2 cameras perform reliably in extreme environmental conditions, making them suitable for a wide variety of mobile video surveillance applications.

Ordering Information

Moxa’s VPort P07-2 is shipped with the following item:

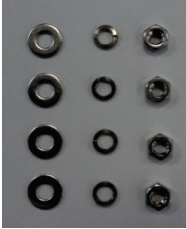
- VPort P07-2 (lens included)

If this item is missing or damaged, please contact your customer service representative for assistance.

The following models are available:

Model Name	Lens	Power	Temperature
VPort P07-2V24M	2.4 mm	PoE	-40 to 60°C
VPort P07-2V36M	3.6 mm	PoE	-40 to 60°C
VPort P07-2V42M	4.2 mm	PoE	-40 to 60°C
VPort P07-2V60M	6.0 mm	PoE	-40 to 60°C
VPort P07-2V80M	8.0 mm	PoE	-40 to 60°C

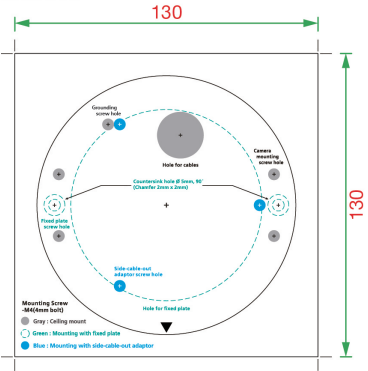
Screw handle accessory package

Torx screwdriver for attaching/detaching the upper case.	4 sets of nuts, gaskets, and spring washers for mounting the camera.	4 indented hexagonal head tapping screws for mounting the camera on the ceiling.
		
Grounding screw for connecting the device to a grounding surface.		
		

Sticker for camera mounting positions

- Quick installation guide
- Warranty card

Unit: mm



NOTE Check the model name on the VPort’s side label to determine if the model name is correct for your order.

NOTE This product must be installed in compliance with your local laws and regulations.

Product Description

Appearance



- **4-pin D-coded M12 Ethernet connector:** Can be used for both the PoE power supply (Mode A) and an Auto MDI/MDI-X Ethernet connection.

PIN	TX
1	TD+
2	RD+
3	TD-
4	RD-



NOTE To connect the VPort P07-2 to a network, use an Ethernet cable with a D-coded M12 connector and an M12 PoE switch or RJ45 PoE switch

M12 D-code to M12 D-code cable 	M12 PoE switch (e.g., TN-5508-4PoE) 
M12 D-code and RJ45 cable 	RJ45 PoE switch (e.g., EDS-P510) 

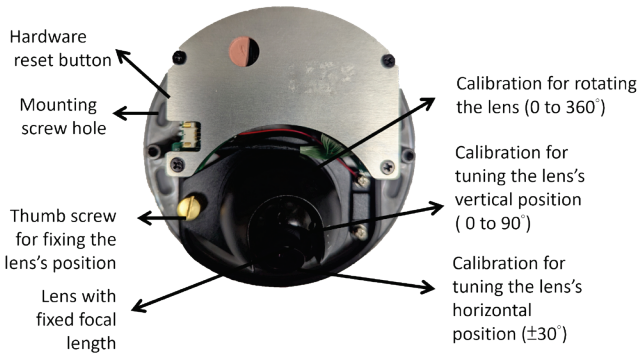
NOTE The power input rating of the VPort P07-2 is 48 VDC, 0.12 A, with a maximum power consumption of approximately 5.76 W.

NOTE The equipment is designed for indoor installation only and is not intended to be connected to exposed networks outside the plant.

- **Solid plastic top cover:** This top cover can be removed for tuning the camera lens position.
- **Transparent dome cover:** The VPort P07-2 is designed with a transparent PC dome cover, which is vandal-proof and satisfies EN 62262 (IEC 62262) Class IK10 requirements.
- **2 Torx screws for top cover:** These 2 torx screws are designed with anti-shedding to make installation more convenient. Use the L-type torx screwdriver to remove or attach the top cover.

NOTE The color of the form factor can be customized based on your installation environment. Please contact your Moxa sales representative for customization service.

Inside the Camera



- **Mounting screw holes:** There are 4 mounting screw holes for mounting the VPort P07-2 on the ceiling or the accessory.
- **Thumb screw for fixing the lens position:** To tune the lens position, loosen the thumb screw, tune the lens, and tighten the thumb screw again.
- **Lens with fixed focal length:** The VPort P07-2 Series includes models with 5 different focal lengths. Choose the appropriate focal-length lens based on the viewing angle and object distance.
- **Hardware reset button:** Use a pointed object to depress the reset button to reboot or restore factory defaults.
 - Reboot: Press the button once.
 - Factory default: Press and hold the button for at least 10 seconds.
- **Calibration for rotating the lens (0 to 360°):** Rotate the lens to get the optimal image. When done, mark the position of this calibration for future placement or mass installation.
- **Calibration for tuning the vertical position of the lens (0 to 90°):** After tuning the vertical position of the lens, mark the position of this calibration for future placement or mass installation.
- **Calibration for tuning the horizontal position of the lens ($\pm 30^\circ$):** After tuning the horizontal position of the lens, mark the position of this calibration for future placement or mass installation.

Hardware Installation

Step 1: Open and remove the top cover.

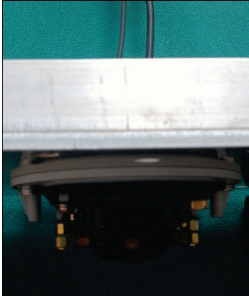
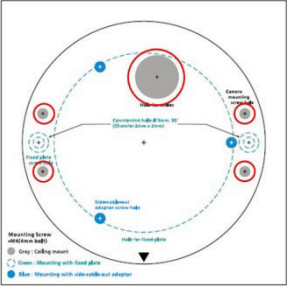
Use the torx screwdriver to loosen the top cover screws.



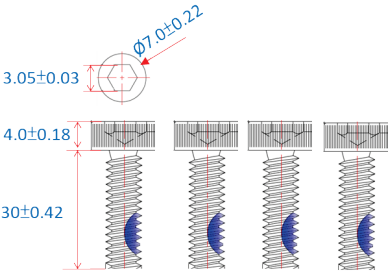
Step 2: Use the installation sticker for drilling the holes. There are 3 types of installation.

a. Mounting with 4 mounting screws

To mount the camera on the ceiling, drill a hole through the gray portion of the sticker and then mount the camera with the 4 nut/gasket/spring-washer sets and 4 indented hexagonal head tapping screws.



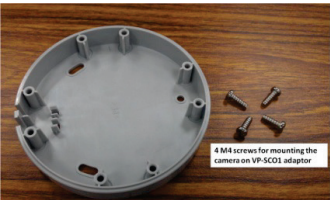
NOTE The 4 screws for mounting the VPort P07-2 are M4 type with a 30 mm length thread. At least 8 kgf-cm of torque is required for all mounting screws.

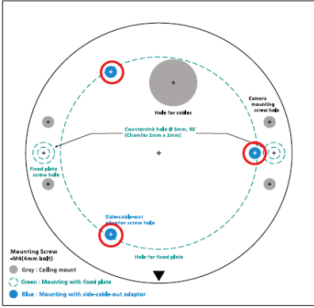
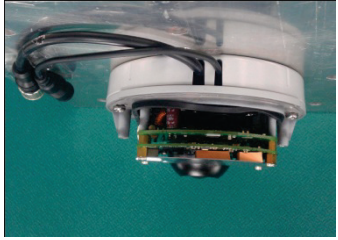


b. Mounting with the side-cable-out adapter

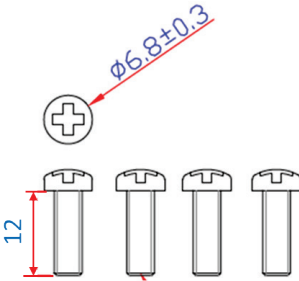
Use the side-cable-out adapter **VP-SCO1**

(VP-SCO1) if your installation requires the cable-out on the side. Drill a hole through the blue portion of the sticker for mounting the adaptor on the surface with 3 nut/gasket/spring-washer sets and indented hexagonal head tapping screws (included in the VPort P07-2 package). Next, mount the VPort P07-2 on the adapter with 4 M4 screws, which are provided in the VP-SCO1's package.





NOTE The 4 screws for mounting the VPort P07-2 onto the VP-SCO1 are M4 type with a 12 mm length thread. At least 8 kgf-cm of torque is required for all mounting screws.



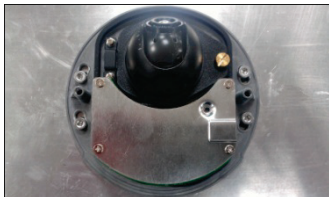
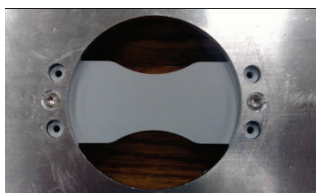
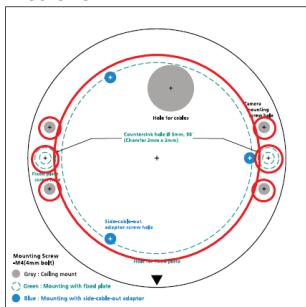
c. Mounting with the fixed plate

If you cannot use the nut/gasket/spring-washer set to mount the camera on your ceiling, use the VP-FP1 fixed plate. Drill holes through the green dotted-line holes and 4 camera mounting screw holes on the sticker, and then put the VP-FP1 inside the hole. Use the 2 countersink screws to mount the VP-FP1. Finally, mount the VPort P07-2 on the fixed plate with the 4 indented

VP-FP1

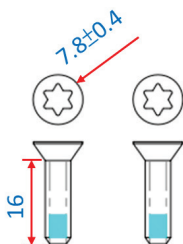


hexagonal head tapping screws.



NOTE The screw hole for mounting the VP-FP1 fixed plate is a countersunk hole with 5 mm diameter, and 90° 2 x 2 mm chamfer. Take this into consideration when drilling these 2 screw holes.

NOTE The 2 screws for mounting the VP-FP1 onto the ceiling are M4 type with a 16 mm length thread. At least 8 kgf-cm of torque is required for all mounting screws.



Step 3: Connect the camera with the 4-pin M12 D-coded Ethernet connector.



NOTE Connectors used with the cameras must be IP66 compliant.

Step 4: Loosen the thumb screw to rotate and tune the horizontal and vertical position of the lens. Once the lens position is correct, fix the thumb screw with at least 5.5 kgf-cm of torque.



NOTE Make sure the thumb screw is loose enough when adjusting the lens holder. Moving the lens holder when the screw is too tight may affect the image focus of the lens.

Step 5: Fix the top cover with at least 5.5 kgf-cm of torque.

Software Installation

Step 1: Configure the VPort P07-2's IP address

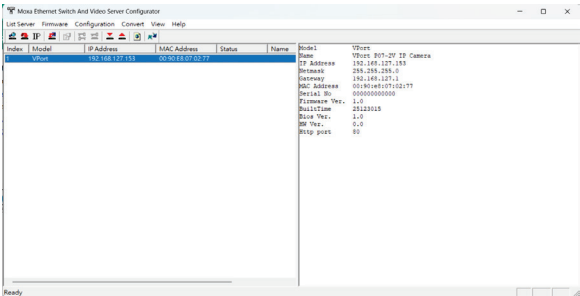
When the VPort is first powered on, the POST (Power On Self Test) will run for a few moments (about 30 seconds). The network environment determines how the IP address is assigned.

For Networks Environment With a DHCP Server

For this network environment, the unit's IP address will be assigned by the network's DHCP server. Refer to the DHCP server's IP address table to determine the unit's assigned IP address. You may also use the Moxa VPort and EtherDevice Configurator Utility, as described below:

Moxa VPort and EtherDevice Configurator Utility

1. Download the Moxa Vport and EtherDevice Configurator Utility (edscfgui.exe) software from <https://www.moxa.com>.
2. Run the software.
3. After the utility's window opens, click the **Search** (🔍) button to initiate a device discovery.
4. When the search has concluded, the model name, MAC address, IP address, and other device details will be shown.



For non-DHCP Server Network Environments

If your VPort is connected to a network that does not have a DHCP server, then you will need to configure the IP address manually.

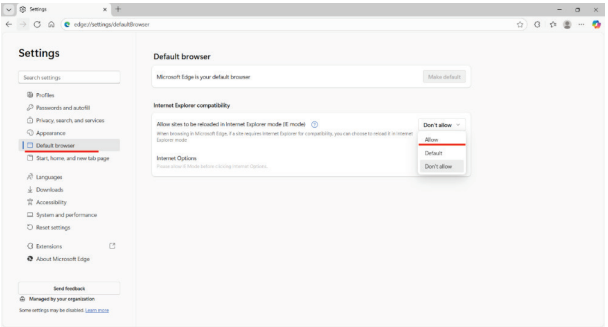
Refer to the following steps to access the VPort’s interface using the default IP and gateway to change the device’s network settings. Note that you may need to change your computer’s IP address and subnet mask so that the computer is on the same subnet as the VPort.

Step 2: Access the VPort P07-2’s web-based manager.

Type the IP address in the web browser’s address bar and then press enter. The VPort’s default network information is:

- **IP address:** 192.168.127.100
- **Gateway:** 255.255.255.0

NOTE It is recommended to use the ActiveX control component for Microsoft Internet Explorer for a better video streaming experience. When using IE mode for the Microsoft Edge browser, you need to enable the **"Allow sites to be reloaded in Internet Explorer mode (IE mode)."** option in the **Default Browser** configuration page of the Edge browser’s **Setting** menu. Refer to the Microsoft website for more information about IE Mode.



A security warning message will appear when accessing the VPort’s web interface in Edge IE Mode for the first time. This message is related to installing the ActiveX Control component onto your PC or notebook. Click **Install** to install the plug-in to enable viewing video imagery in the IE web browser.



Step 3: Log in and change the default password.

When prompted, log in to the VPort’s web-based manager. If this is the first time logging in, use the default credentials:

- **Username:** admin
- **Password:** moxamoxa

For security reasons, you will need to change the admin password after logging in for the first time. If you log out without changing the

password, the **Change Password** dialog will appear when you log in the next time. You will need to update the password to proceed.

NOTE The admin password cannot be reset or changed again for network security reasons. Keep the administration password in a safe location for reference. If you forgot the admin password, you will need to send the VPort back to Moxa. Please note that this may incur a service fee.

Step 4: Access the homepage of the VPort P07-2 Series' web-based manager.

After logging in successfully, the homepage of the VPort P07-2 Series' web-based manager will appear. Check the following to confirm the system was installed properly:

- 1. The camera's live feed shows correctly on the homepage
- 2. The video streaming details in the **Video Information** section



Step 5: Access the VPort's system configuration.

The **Model Name**, **Server Name**, **IP Address**, **MAC Address**, and **Firmware Version** are shown in the green banner at the top of the page for reference.

Click **System Configuration** to access the device's configuration screen. For details of each configuration screen, check the user's manual which can be downloaded from www.moxa.com.

NOTE To manually assign an IP address to the VPort for use in non-DHCP networks, navigate to **System Configuration > Network > General**. Configure the VPort's network settings and check the **Use fixed IP address** option to ensure that the manually assigned IP address is not deleted each time the VPort is restarted.

Model Name: VPort
IP Address: 192.168.127.155
Serial Name: VPort P07-2V IP Camera
MAC Address: 08-90-E2-87-82-77
Firmware Version: 1.0
Build: 25.02.015

Home
Main Menu
Overview
Profiles
System
Network
Video
Metadata
Streaming
Event
Actions

Best viewed with IE30 or above with resolution of 1280x1024

System Configuration

Welcome to the System Configuration pages. A brief description of each configuration group is given below. Click on a plus sign in the left pane to expand a group, and then click on the name of the page you would like to open.

Category	Item	Description and Content
Profiles	Configuration	Configure Profile settings
	General	Setting Host Name, Contact, Location, Message before login and login fail message
	Date/Time	Setting Date/Time
	Account	Administrator, User and Operator account privileges management
	Account Policy	Configure account login duration, password complexity setting
	System Log	System Log and operation information
	System Parameter	System Parameters information and Import/Export function
	LED Control	Setup LED options
	Firmware Upgrade	Remote firmware upgrade
	Factory Default	Reset to factory default
System	Reboot	Device will reboot for restarting system
	General	The IP network settings of this VPort
	IPv6	Configure IPv6 settings
	Accessible IP	Setup a list to control the access permission of clients by checking their IP address
	RTSP	Configure RTSP
	HTTP	Configure HTTP
	UPnP	Enable UPnP function
	ToS	Configure ToS(Type of Service)
	SNMP	Configure the SNMP settings
	Moxa Service	Moxa search protocol
Network	SSH	Configure SSH
	LLDP	Configure LLDP
	MQTT Publisher	Configure MQTT Publisher

Wiring Requirements



ATTENTION

Safety First!

Be sure to disconnect the power cord before installing and/or wiring your Moxa VPort P07-2. Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If the current goes above the maximum ratings, the wiring could overheat, causing serious damage to your equipment.

You should also pay attention to the following:

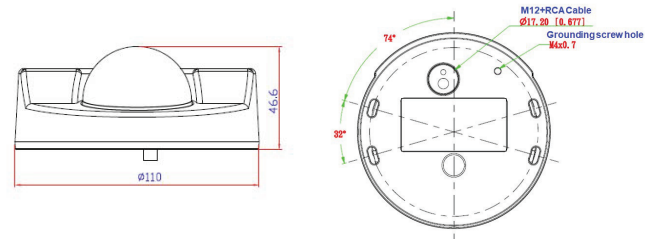
- Use separate paths to route wiring for power and devices. If power wiring and device wiring paths must cross, make sure the wires are perpendicular at the intersection point.
- You can use the type of signal transmitted through a wire to determine which wires should be kept separate. The rule of thumb is that wiring that shares similar electrical characteristics can be bundled together.
- Keep input wiring and output wiring separate.
- We strongly advise labeling wiring to all devices in the system.

Grounding the VPort P07-2

The grounding screw accessory can be used to connect the VPort camera to ground. If required, the grounding screw can be inserted in the grounding hole located on the VPort P07-2's aluminum bottom plate. Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the grounding screw to the grounding surface prior to connecting devices.

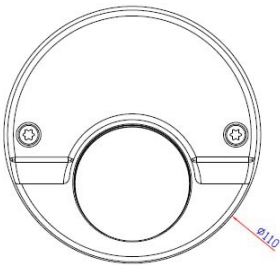
NOTE The grounding screw is exclusively used to ground the VPort camera. Do not use it to ground other devices and equipment.

Dimensions (mm)

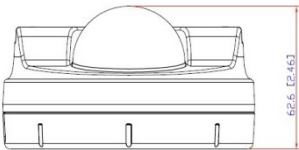


Front View

Bottom View



Top View



Camera with SCO1 adaptor

Specifications

Input Current	0.12 A @ 48 VDC
Operating Temperature	-40 to 60°C (-40 to 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)

NOTE The equipment is intended to be supplied by an external power source (UL listed/IEC 60950-1/IEC 62368-1), of which the output complies with ES1/SELV/PS2/LPS, and the output rating is 48 VDC, 0.12 A minimum in ambient temperatures of at least 60°C.

If you are using a Class I adapter, the power cord should be connected to an outlet with an earthing connection.