VPort 06-2 Series Quick Installation Guide

MOXA IP Camera

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Overview

The VPort 06-2 series is a compact IP dome camera that supports FHD (1080P, 1920 x 1080) video image and H.264/MJPEG. It is designed for mobile video surveillance applications and features EN 50155 compliance, vandal-proofing (EN 62262 IK8), operating temperature of -25 to 55°C or -40 to 70°C (T model), rugged M12 Ethernet port, 1 audio input or built-in microphone, PoE or 24 VDC power inputs, IP66 rain and dust protection, dehumidifying membrane, and selectable lens models, for the versatility and ruggedness required to excel in many different installations and environments for mobile IP video surveillance applications.

Ordering Information

Model		1		Tempe	rature	Conformed	
Di Frischel		Lens	Audio	-25 to -40 to		Conformal	
PoE model	24 VDC model	(mm)		55°C	70°C	Coating	
VPort P06-2L25M	VPort 06-2L25M	2.5	Line-in	~	-	-	
VPort P06-2L36M	VPort 06-2L36M	3.6	Line-in	~	-	-	
VPort P06-2L42M	VPort 06-2L42M	4.2	Line-in	~	-	-	
VPort P06-2L60M	VPort 06-2L60M	6	Line-in	~	-	-	
VPort P06-2L80M	VPort 06-2L80M	8	Line-in	~	-	-	
VPort P06-2M25M	VPort 06-2M25M	2.5	Mic-in	~	-	-	
VPort P06-2M36M	VPort 06-2M36M	3.6	Mic-in	~	-	-	
VPort P06-2M42M	VPort 06-2M42M	4.2	Mic-in	~	-	-	
VPort P06-2M60M	VPort 06-2M60M	6	Mic-in	~	-	-	
VPort P06-2M80M	VPort 06-2M80M	8	Mic-in	~	-	-	
VPort P06-2L25M-T	VPort 06-2L25M-T	2.5	Line-in	-	~	-	
VPort P06-2L36M-T	VPort 06-2L36M-T	3.6	Line-in	-	~	-	
VPort P06-2L42M-T	VPort 06-2L42M-T	4.2	Line-in	-	~	-	
VPort P06-2L60M-T	VPort 06-2L60M-T	6	Line-in	-	~	-	
VPort P06-2L80M-T	VPort 06-2L80M-T	8	Line-in	-	~	-	
VPort P06-2M25M-T	VPort 06-2M25M-T	2.5	Mic-in	-	~	-	
VPort P06-2M36M-T	VPort 06-2M36M-T	3.6	Mic-in	-	~	-	
VPort P06-2M42M-T	VPort 06-2M42M-T	4.2	Mic-in	-	~	-	
VPort P06-2M60M-T	VPort 06-2M60M-T	6	Mic-in	-	~	-	
VPort P06-2M80M-T	VPort 06-2M80M-T	8	Mic-in	-	~	-	
VPort P06-2M80M-T VPort 06-2M80M-T VPort P06-2L25M-CT VPort 06-2L25M-CT		2.5	Line-in	~	-	~	
VPort P06-2L25M-CT VPort 06-2L25M-CT VPort P06-2L36M-CT VPort 06-2L36M-CT		3.6	Line-in	~	-	~	
VPort P06-2L42M-CT	VPort 06-2L42M-CT	4.2	Line-in	~	-	~	
VPort P06-2L60M-CT	VPort 06-2L60M-CT	6	Line-in	~	-	~	
VPort P06-2L80M-CT	VPort 06-2L80M-CT	8	Line-in	~	-	~	
VPort P06-2M25M-CT	VPort 06-2M25M-CT	2.5	Mic-in	~	-	✓	
VPort P06-2M36M-CT	VPort 06-2M36M-CT	3.6	Mic-in	~	-	✓	
VPort P06-2M42M-CT	VPort 06-2M42M-CT	4.2	Mic-in	~	-	~	
VPort P06-2M60M-CT	VPort 06-2M60M-CT	6	Mic-in	~	-	~	
VPort P06-2M80M-CT	VPort 06-2M80M-CT	8	Mic-in	~	-	~	
VPort P06-2L25M-CT-T	VPort 06-2L25M-CT-T	2.5	Line-in	_	~	~	
VPort P06-2L36M-CT-T	VPort 06-2L36M-CT-T	3.6	Line-in	-	~	~	
VPort P06-2L42M-CT-T	VPort 06-2L42M-CT-T	4.2	Line-in	-	~	~	
VPort P06-2L60M-CT-T			Line-in	-	~	~	
VPort P06-2L80M-CT-T	VPort 06-2L80M-CT-T	8	Line-in	-	~	~	

The following VPort 06-2 series models are available:

Mo	Model Len PoE model 24 VDC model (mn			Temperature		Conformal	
PoE model			Audio	-25 to 55°C	-40 to 70°C	Coating	
VPort P06-2M25M-CT-T	VPort 06-2M25M-CT-T	2.5	Mic-in	-	~	~	
VPort P06-2M36M-CT-T	VPort 06-2M36M-CT-T	3.6	Mic-in	-	~	~	
VPort P06-2M42M-CT-T	VPort 06-2M42M-CT-T	4.2	Mic-in	-	~	✓	
VPort P06-2M60M-CT-T	VPort 06-2M60M-CT-T	6	Mic-in	-	~	✓	
VPort P06-2M80M-CT-T	VPort 06-2M80M-CT-T	8	Mic-in	-	~	✓	

Screw handle accessory package

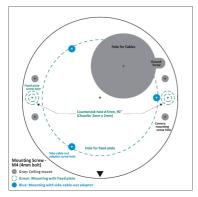
Two dry packs (sealed in sachets) for absorbing moisture from the inside of the camera. Two double-sided tapes for sticking dry packs inside the camera.





Torx screwdriver for attaching/detaching the upper case.	4 sets of nut, gasket, and spring washer for mounting the camera.	4 indented hexagonal head tapping screws for mounting the camera on the ceiling.

Sticker for camera mounting positions



Contents of the Package

- Two dry packs and double sided tape
- Documentation and Software CD (includes User's Manual, Quick Installation Guide, and VPort Utility)
- Quick installation guide (printed)
- Warranty card

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

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

Product Description

Appearance

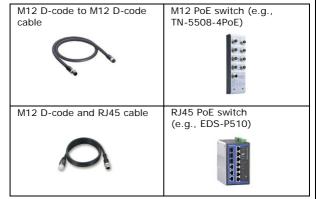


 4-pin D-code M12 Ethernet connector: Can be used for both the PoE power supply (PoE model) and Auto MDI/MDI-X Ethernet connection

PIN	ТХ
1	TD+
2	RD+
3	TD-
4	RD-



NOTE To connect the VPort 06/P06-2MP series to a network, use an Ethernet cable with D-code M12 connector and an M12 PoE switch or RJ45 PoE switch



NOTE The power input rating of the PoE model is 48 VDC, 0.2 A, with maximum power consumption of approximately 8.1 W.

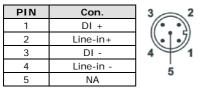
The power input rating of the DC models are 12 VDC, 0.86 A, with maximum power consumption of 10.2 W, and 24 VDC, 0.38 A with maximum power consumption of 9.0 W.

- **NOTE** The equipment is designed for indoor installation only and is not intended to be connected to exposed (outside the plant) networks.
- DB9 connector (24 VDC model): Includes power input, digital input signal, and audio input (line-in model).

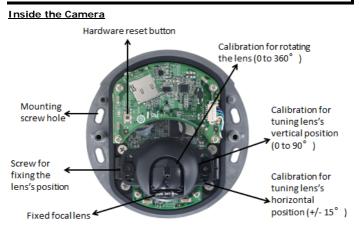
PIN	Con.
1	24 VDC +
2	NA
3	Audio +
4	NA
5	DI +
6	24 VDC return
7	NC
8	Audio -
9	DI -



 5-pin M12 connector (PoE model): Includes digital input signal, and audio input (line-in model).



- Solid metal top cover: This top cover can be removed for adjusting the camera lens position.
- Transparent dome cover: The VPort 06-2 series is designed with a transparent PC dome cover, which is vandal-proof and satisfies EN 62262 (IEC 62262) Class IK8 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.
- **Built-in microphone:** VPort 06-2-MIC series products have a built-in microphone, and can simultaneously display or record live video and audio.
- **NOTE** The color of the form factor can be customized based on your installation environment. Please contact your Moxa sales representative for customization service.



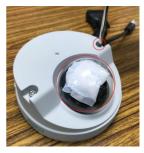
- Mounting screw holes: There are 4 mounting screw holes for mounting the VPort 06/P06-2 series on the ceiling or the accessory.
- Screw for fixing the lens's position: To adjust the position of the lens, loosen the thumb screw, and then retighten it after you are done with adjusting the position of the lens.
- Lens with fixed focal length: The VPort 06/P06-2 series includes models with 3 different focal lengths. Choose the appropriate focal length for your 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 one time.
 - > Factory default: press the button and hold for at least 5 sec.

- Calibration for rotating 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 adjusting lens's vertical position (0 to 90°): After adjusting the lens's vertical position, mark the position of this calibration for future placement or mass installation.
- Calibration for adjusting lens's horizontal position (±15°): After adjusting the lens's horizontal position, mark the position of this calibration for future placement or mass installation.

Hardware Installation

Step 1: Open and remove the top cover.

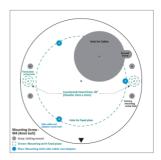
Use the torx screwdriver to loosen the top cover screws and remove the dry pack that is in the camera.



Step 2: Use the markings on the installation sticker to position the drill bit before drilling 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 the 4 indented hexagonal head tapping screws.

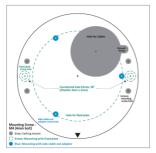


b. Mounting with the side-cable-out adapter

Use the side-cable-out adapter (VP-SCO2) 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. Then, mount the VPort 06-2 on the adapter with 4 M4 screws, which are provided in the VP-SCO2's package.

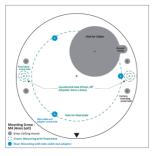
VP-SCO2





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-FP2 fixed plate. Drill holes through the green dotted-line and 4 camera mounting screw markings on the sticker, and then place the VP-FP2 inside the hole. Use the 2 countersunk screws to mount the VP-SP2. Finally, mount the VPort 06/P06-2 series on the fixed plate with the 4 indented hexagonal head tapping screws.













NOTE The screw hole for mounting the VP-FP2 fixed plate is a countersink hole with 5 mm diameter, and 90° 2 x 2 mm chamfer. Take this into consideration when drilling these 2 screw holes.

Step 3: Connect the camera with the 4-pin M12 D-code Ethernet connector and DB9 / 5-pin M12 connector.

NOTE Connectors used with the cameras should be IP66 compliant.

Step 4: Loosen the screw for adjusting the horizontal, vertical, and rotating lens position. Once the lens position is correct, fix the screw.

Step 5: Stick the double-sided tapes onto two dry packs and use the other side of the tapes to stick the dry packs on the inside of the top cover to absorb the moisture that might have entered the camera housing during installation.



Step 6: Fix the top cover. The installation is now complete.

- NOTE 1. The dry packs may become saturated if exposed to the air for too long; for this reason, reattach the top cover immediately after sticking the dry packs inside the top cover. If the cover is removed at any time in the future, be sure to replace the dry packs before reattaching the cover.
 - Make sure the top cover is attached tightly (place the screws in the holes such that they can stay unaided and tighten all of them. Retighten the screws in succession until they are all completely tightened.)
 - 3. For the model with a microphone, be careful not to damage the metal spring on the small board mounted on the top cover.



Software Installation

Step 1: Configure the VPort 06-2's IP address.

When the VPort 06-2 series 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.

Network Environment with 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 (edscfgui.exe), as described below:

Using the Moxa VPort and EtherDevice Configurator Utility (edscfgui.exe)

1. Run the edscfgui.exe program to search for the VPort. After the

utility's window opens, you may also click on the **Search** button et initiate a search.

 When the search has concluded, the Model Name, MAC address, IP address, serial port, and HTTP port of the VPort will be listed in the utility's window.

You can double click the selected VPort, or use the IE web browser to access the VPort's web-based manager (web server).

Non DHCP Server Network Environment

If your VPort 06-2 series is connected to a network that does not have a DHCP server, then you will need to configure the IP address manually. The default IP address of the VPort 06-2 series is 192.168.127.100 and the default subnet mask is 255.255.255.0. 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.

To change the IP address of the VPort manually, access the VPort's web server, and then navigate to the **System Configuration** \rightarrow **Network** \rightarrow **General** page to configure the IP address and other network settings. Select the *Use fixed IP address* option to ensure that the IP address you assign is not deleted each time the VPort is restarted.

Step 2: Access the VPort 06-2 series' web-based manager.

Type the VPort 06-2 IP address in the web browser's address field and press Enter.

Step 3: Install the ActiveX Control Plug-in.

A security warning message will appear the first time you access the VPort's web-based manager. The message is related to installing the VPort ActiveX Control component on your PC or notebook. Click **Yes** to install this plug-in to enable the IE web browser for viewing video images.



NOTE For Windows XP SP2 or above operating systems, the ActiveX Control component will be blocked for system security reasons. In this case, the VPort's security warning message window may not appear. You should unlock the ActiveX control blocked function or disable the security configuration to enable the installation of the VPort's ActiveX Control component. Step 4: Access the homepage of VPort 06-2 series' web-based manager.

After installing the ActiveX Control component, the homepage of the VPort 06-2 series' web-based manager will appear. Check the following items to make sure the system was installed properly:

- 1. Video Images
- 2. Video Information



Step 5: Access the VPort's system configuration.

Click on **System Configuration** to access the overview of the system configuration to change the configuration. **Model Name**, **Server Name**, **IP Address**, **MAC Address**, and **Firmware Version** appear on the green bar near the top of the page. Use this information to check the system information and installation.

For details of each configuration, check the user's manual on the software CD.

MOXV.	VPort P06-2	2L36M-1					W	ww.moxa
me: Whet P05-2L304-T		Server Name : What 05-2 IP Camera			- 9747	- 949	- 90	-0
aa : 172, 19, 19, 41		MAC Address : 00:90:03:00:00.22	Pers. Version : 1.0 Duld : 1000	818	= 3141		- 20	- 0
	System Co	nfiguration						
ain Menu			f description of each configuration group is given below. Click on a plus gion in t					
Overview	weicome to the	system congeration pages. A trie	r description of each configuration group is given below. Click on a plus eign in	the left pane to expand a grou	p, and then click on t	ne name or the	page you h	ound sike to ope
Profiles								
System	Category	lien.	Description and Content					
	Profiles	Configuration	Configure ON/3F Profile settings					
Network:		General	Setting Host Name, contect and Location					
Video		Date/Time	Setting Date/Time					
Audio		Account	Administrator, User and Demo Account Privileges Management					
Metecleta		Local Storage	Set up the local storage capability					
Streaming		System Log	System Log and operation information					
Event	System	System Parameter	System parameters information and Import/Export function					
Actions		LED Control	Turn on/off LED					
Actors		Firmulare Upgrade	Remote Firmware Upgrade					
		Factory Default	Reset to Factory Default					
leved with IE10 or above exclusion of 1280x1024		Rehout	Device will reboot for restarting system					
esoneon er roomtoon		General	The IP network settings of this VPort					
		2.6	Configure IPv6 settings					
		DONS	Configure DDNS					
		Universal PriP	Enable UPnP function					
		Ted	Configure ToS(Type of Service)					
	Network	Accessible ID	Set up a list to control the access permission of clients by checking their 3P	address				
		53842	Configure the SNMP settings					
		Noxe Service	Mona Service is for the device search capability by Mona software or utility					
		55H	Configure SSH					
		ULDP	Configure LLDP					
		822	Configure 50P settings					
		Imege Setting	Configure the information of video image					
		Camera Setting	Configure the attributes of video image					
		Carrider	Configure the corridor mode					
	Video	Drivary Mask	Configure the Privacy Mask settings					
		Video Encoder	Set up the Encode Standard (NJPEG or H.264), Size (Resolution), FPG. Qual	Its and Malkingst sattings				
		Breek/arm	Set up Pre-Narm Parameters					
		Audio Encoder	Configure Audio Encoder Multicast settings					
	Audio	Audio Volume	Configure Audio Volume					
	Metadata	Metadata	Configure Metadata settings					
	Streaming	CREAM	Configure CRRPTo settings					
	assessing	Enable Event	Enable/Disable all Event Producer					
Event		Sustan Durch	Configure System Event settings					
		Notion Detection	Configure bytem Event settings Configure Motion Detection settings					
	Event	Camera Tamper	Configure Motion Detection settings Configure Cemera Tamper settings					
		Shock Detection	Configure Camera Lamper settings Configure Shock Detection settings					
		Sequential Snapshot	Configure brock Detection settings Configure Sequential Snagshot settings, Schedule and transmit destinations					
		Action Config	Configure Sequence prepared seconds, poneque and transmit destination Configure detail Action activation.					
	Actions		Configure detail Action activation. Configure Action Trigger for Event trigger condition specify Action Configs					
		Action Trigger						



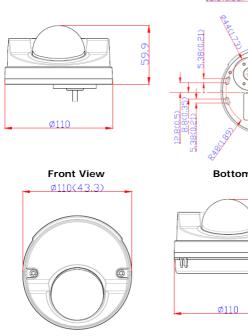
ATTENTION

Safety First!

Be sure to disconnect the power cord before installing and/or wiring your Moxa VPort 06/P06-2 series. 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.

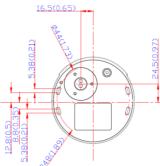
You should also pay attention to the following:

- 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.

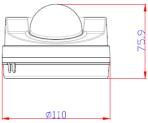


Dimensions (mm)

Top View



Bottom View



Camera with SCO2 adaptor