VPort P06-1MP-M12 Quick Installation Guide

Moxa IP Camera

Edition 4.0, February 2017

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Overview

The compact VPort P06-1MP-M12 cameras provide an HD (720P, 1280 x 720) video image, and feature an H.264/MJPEG IP dome, giving them the versatility and ruggedness to excel in many different installations and environments for mobile IP video surveillance applications. In addition, the cameras are compliant with mandatory sections of EN 50155, covering operating temperature, power input voltage, surge, ESD, and vibration, as well as conformal coating and power insulation, making them suitable for a variety of industrial applications. The cameras feature vandal-proofing (EN 62262 IK10), a -25 to 55°C or -40 to 70°C (T models) operating temperature range, a rugged M12 Ethernet port, 1 audio input, PoE power inputs, IP66 rain and dust protection, a dehumidifying membrane, and a selectable lens.

Ordering Information

Moxa's VPort P06-1MP-M12 is shipped with the following item:

VPort P06-1MP-M12 (lens included)

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

EN 50155, T1	EN 50155, TX	Lens	Line-in/	
-25 to 55°C	-40 to 70°C	Focal-length	Microphone	
VPort P06-1MP	VPort P06-1MP	3.6 mm	Line-in	
-M12-CAM36	-M12-CAM36-T			
VPort P06-1MP	VPort P06-1MP	3.6 mm	Microphone-in	
-M12-MIC-CAM36	-M12-MIC-CAM36-T			
VPort P06-1MP	VPort P06-1MP	4.2 mm	Line-in	
-M12-CAM42	-M12-CAM42-T			
VPort P06-1MP	VPort P06-1MP	4.2 mm	Microphone-in	
-M12-MIC-CAM42	-M12-MIC-CAM42-T			
VPort P06-1MP	VPort P06-1MP	6.0 mm	Line-in	
-M12-CAM60	-M12-CAM60-T			
VPort P06-1MP	VPort P06-1MP	6.0 mm	Microphone-in	
-M12-MIC-CAM60	-M12-MIC-CAM60-T			
VPort P06-1MP	VPort P06-1MP	3.6 mm	Line-in	
-M12-CAM36-CT	-M12-CAM36-CT-T			
VPort P06-1MP	VPort P06-1MP	3.6 mm	Microphone-in	
-M12-MIC-CAM36-CT	-M12-MIC-CAM36-CT-T			
VPort P06-1MP	VPort P06-1MP	4.2 mm	Line-in	
-M12-CAM42-CT	-M12-CAM42-CT-T			
VPort P06-1MP	VPort P06-1MP	4.2 mm	Microphone-in	
-M12-MIC-CAM42-CT	-M12-MIC-CAM42-CT-T			
VPort P06-1MP	VPort P06-1MP	6.0 mm	Line-in	
-M12-CAM60-CT	-M12-CAM60-CT-T			
VPort P06-1MP	VPort P06-1MP	6.0 mm	Microphone-in	
-M12-MIC-CAM60-CT	-M12-MIC-CAM60-CT-T			

The following models are available:

Screw handle accessory package



Sticker for camera mounting positions

- Quick installation guide
- Documentation and Software CD (includes User's Manual, Quick Installation Guide, and VPort Utility)
- Warranty card



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.

Features

- 1/2.7" HD progressive CMOS image sensor
- High image quality with WDR (wide dynamic range) and DNR (Digital Noise Reduction) supported
- Minimum illumination up to 0.2 lux (color)
- Supports MJPEG and H.264 Dual Codecs
- Provides 3 video streams for H.264 and MJPEG simultaneously
- Video stream up to 30 frames/sec at WXGA (1280 x 800) resolution
- Supports video quality configuration with fixed bit rate (CBR) and fixed quality (VBR)
- Video latency under 200 ms
- DynaStream[™] for network efficiency with dynamic frame rate change
- CBR Pro[™] supported for high image quality with limited bandwidth transmissions
- WXGA, 720P, SVGA, Full D1, 4CIF, VGA, CIF, QCIF resolution

- TCP, UDP, and HTTP network transmission modes
- Supports DHCP OPT66/67 for automatic configuration from TFTP server, making it easy to batch configure several units
- Supports RTSP streaming
- Supports multicast (IGMP) video streaming
- Supports SNMP (V1/V2C/V3) for network system integration and • management
- Supports QoS (ToS) for transmission priority •
- Built-in web server for easy configuration
- Accessible IP filtering
- **UPnP** supported
- Complies with all EN 50155 mandatory test items*

*This product is suitable for rolling stock railway applications, as defined by the EN 50155 standard. For a more detailed statement, click here: www.moxa.com/doc/specs/EN 50155 Compliance.pdf

- 1 10/100BaseT(X) port with M12 D-code connector •
- 1 audio input with water-proof RCA-type connector •
- IP66 rain and dust protection, with dehumidifying membrane
- PoE (Power-over-Ethernet, IEEE 802.3af) supported
- EN 62262 IK9 level vandal resistance
- -25 to 55°C (EN 50155, Class T1), or -40 to 70°C (EN 50155. Class TX) operating temperature for rolling stock environments
- CE, FCC, UL 60950-1 .
- Built-in tamper alarm and Video Motion Detection (VMD)
- Pre, Trigger, and post snapshot images supported
- Sequential snapshot images supported
- Supports SMTP and FTP for alarm message transmission •
- Supports HTTP event server
- 5-year warranty

Product Description

Appearance



(only available in models with linein audio)





Transparent Torx screw Dome cover for top cover

Built-in Microphone (-MIC model)



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

PIN	ТΧ	
1	TD+	
2	RD+	
3	TD-	
4	RD-	



NOTE To connect the VPort P06-1MP-M12 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 VPort P06-1MP-M12 is 48 VDC, 0.12 A, with maximum power consumption approximately 6 W.
- **NOTE** The equipment is designed for in building installation only and is not intended to be connected to exposed (outside the plant) networks
- RCA female connector: The VPort P06-1MP-M12 supports one audio input with RCA female connector. The audio will be digitized and compressed as an audio stream for network transmission with the video stream.
- **NOTE** RCA audio connectors are popular and easily found in the market. If you require any other kind of audio connector, please contact your Moxa sales representative for customization service.

- Solid plastic top cover: This top cover can be removed for tuning the camera lens position.
- Transparent dome cover: The VPort P06-1MP-M12 is designed with a transparent PC dome cover, which is vandal-proof and satisfies EN 62262 (IEC 62262) Class IK9 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 P06-1MP-M12-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.

Inside the Camera



Microphone line (-MIC model)



Mounting screw holes: There are 4 mounting screw holes for mounting the VPort P06-1MP-M12 on the ceiling or the accessory.

- Thumb screw for fixing the lens's position: To tune the lens's position, loosen the thumb screw, and then retighten it after the position tuning is done.
- Lens with fixed focal length: The VPort P06-1MP-M12 series includes models with 3 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 one time.
 - > Factory default: press the button and hold in for at least 90 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 tuning lens's vertical position (0 to 90°): After tuning the lens's vertical position, mark the position of this calibration for future placement or mass installation.
- Calibration for tuning lens's horizontal position (±30°): After tuning 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.



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.





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. Then, mount the VPort PO6-1MP-M12 on the adapter with 4 M4 screws, which are provided in the VP-SCO1's package.









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-SP1. Finally, mount the VPort P06-1MP-M12 on the fixed plate with the 4 indented 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.

Step 3: Connect the camera with the 4-pin M12 D-code Ethernet connector and RCA male connector.

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





Step 5: Fix the top cover. The installation is now complete.

Software Installation

Step 1: Configure the VPort PO6-1MP-M12's IP address

When the VPort P06-1MP-M12 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.

List Server Firmware Config	uration Conver	t View Help				
2 2 2 3 3 3 4 A	 x¥ 					
Model	IP Address	MAC Address	Status	-	Model	VPort P06-1MP-M12-CAM42 VPort P06-1MP IP Camera
MxNVR-IA8	172.19.16	00:90:E8:24:5			IP Address	VFort F06-1MF IF Camera 172.19.16.3
VPort 354	172.19.16	00:90:E8:00:4			Netmask	255.255.255.0
VPort 06-1MP	172.19.16	00:90:E8:2E:0			Gateway MAC Address	172.19.16.254
VPort P06-1MP-M12-CAM42	172.19.16.3	00:90:E8:00:0			Serial No	02028
VPort36	172.19.16	00:90:E8:36:0			Firmware Ver.	
VPort 461	172.19.16	00:90:E8:21:7		=	Bios Ver. Http port	1.0.0
VPort 354	172.19.16	00:90:E8:00:4			neep pore	
VPort06	172.19.16	00:90:E8:2E:0				
VPort 461-T	172.19.16	00:90:E8:21:2				
EDS-508A-MM-SC	192.168.12	00:90:E8:0E:2F				
VPort P06-1MP-M12-CAM42	172.19.16	00:90:E8:30:2				
EDS-408A-MM-SC	172.19.16	00:90:E8:0D:6				
VPort 16	172.19.16	00:0A:19:74:1				
EDS-P506A-4POE	192.168.12					
VPort 461	172.19.16	00:90:E8:21:2				
VPort 354-T	172.19.16	00:90:E8:1F:6		-		
< [] III						

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 16-M12 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 16-M12 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. Check *Use fixed IP address* to ensure that the IP address you assign is not deleted each time the VPort is restarted.

Step 2: Access the VPort P06-1MP-M12's web-based manager.

Type the IP address in the web browser's address input box and then 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 AcitveX 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 P06-1MP-M12's web-based manager.

After installing the ActiveX Control component, the homepage of the VPort P06-1MP-M12's 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.

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Market Barrier 1 Million Price All D. 1913 J	AND Sever See	NO 1 YO T DO 1MP IP	Carriera			
ione 3 Main Menu OverView 3 System 3 Natewyk	System Con Welcome to the to the name of the	System Configura	tion pages. A brief o	lescription of each configuration	group is given below. Clok on a plus sign in the left pane to e	xpand a group, and then dick on
Video	Campory					
		General		Setting Host Name and Date/1		
STR 📫		Account			Account Privileges Management	
Dyna5team		System Lo		System Log and operation info System parameters informatio		
🗀 Alam	System	System Pa		System parameters informatio Remote Firmware Usorade	and import/upport runction	
		Firmware Factory Dr				
lest viewed with 16 6.0 pr		Reboot	raut	Reset to Factory Default Device will reboot for restartin		
bove with resolution of 280x1024		General		The IP network settings of this		
	Network ToS			SMTP Server and E-mail accounts		
			Set up the Primary and Second			
				Configure DONS	ay 212 18148	
			and .	Enable UPrP function		
				Configure ToS(Type of Service)		
				Set up Multicast (IGMP) Stream	en	
		HITP Even	t Sarvar	Set up the HITP Event Server		
	Acces	Accessible			ss permission of clients by checking their IP address	
		SNMP		Configure the SNPP settings		
		Image Sel	tines	Configure the information of vi	leo image	
	Video	Camera S	etting	Configure the attributes of vid	o image	
	Video	Privacy Ma	sk	Configure the Privacy Mask set	lings	
	Vide	Video Pert	ormance	Set up the Encode Standard)	PEG or H.264), Size (Resolution), FPS and Video Quality	
	PTZ	Digital PT3		Configure the Digital PTZ sette	05	
		Gasir		Configure the DynaStream set	ings	
	DynaStream Conditions		Configure the DynaStream trig	per conditions settings		
	Rasic Set	Basic Sett	ng	General settings of event alar		
		Schedule		Set up the Alarm schedule		
	Alerm			Configure the Motion Detection	Alarm	
		Event	CGE Event	Configure the CGI event Alarm		
				Configure the Camera Tamper		

Wiring Requirements



ATTENTION

Safety First!

Be sure to disconnect the power cord before installing and/or wiring your Moxa VPort P06-1MP-M12. 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)



MI2+RCA CABLE

Front View

Bottom View





Top View

Camera with SCO1 adaptor

Specifications

Camera			
Sensor	1/2.7" HD progressive scan CMOS		
Lens	3.6, 4.2, 6 mm fixed focal length		
Angle of view	3.6 mm, F1.6: Diagonal 120°, Horizontal 96°, Vertical 56°		
	4.2 mm, F1.6: Diagonal 96°, Horizontal 81°, Vertical 47°		
	6.0 mm, F1.8: Diagonal 66°, Horizontal 51°, Vertical 38°		
Camera lens angle	Pan: ±30°; Tilt: 0-90°, Rotate: ±180°		
	(contolled manually)		
Illumination (Low light sensitivity)	0.2 Lux at F=1.2, color		
Synchronization	Internal		
White Balance	ATW/AWB (range: 3200 to 10000°K)		
Electronic Shutter	Auto, 1/30 to 1/25000 sec.		
S/N Ratio	50 dB (Gamma, Aperture, AGC, OFF; DNR ON)		
DNR	Built-in DNR		
WDR	Level 1 to 8		
AGC Control	2X, 4X, 8X, 16X, 32X, 64X		
Flickerless Control	50Hz/60Hz mode		
Black level control	High/Medium/Low		
Auto Exposure	Level ±5		
Image Rotation	Flip, Mirror, and 180° rotation		
Image Setting	Manual tuning with saturation, sharpness, and contrast		
Video			
Video Compression	H.264 (ISO/IEC 14496-10) or MJPEG		
Video Output	Via Ethernet port		
Video Streams	3 video streams (2 H.264 and 1 MJPEG)		

CIF VGA 4CIF Full D1 SVGA HD	NT: Size 176 x 112 352 x 240 640 x 480 704 x 480 704 x 480 720 x 480 800 x 600	SC Max. FPS 30 30 30 30 30 30	PA Size 176 x 144 352 x 288	Max. FPS				
CIF	176 x 112 352 x 240 640 x 480 704 x 480 720 x 480	30 30 30 30 30	176 x 144					
CIF VGA 4CIF Full D1 SVGA HD	352 x 240 640 x 480 704 x 480 720 x 480	30 30 30		05				
VGA 4CIF Full D1 5VGA 4D	640 x 480 704 x 480 720 x 480	30 30	352 x 288	25				
4CIF Full D1 SVGA HD	704 x 480 720 x 480	30		25				
Full D1	720 x 480		640 x 480	25				
SVGA B		20	704 x 576	25				
HD	800 x 600	30	720 x 576	25				
		30	800 x 600	25				
WXGA	1280x720	30	1280x720	25				
	1280x800	30	1280x800	25				
Video Viewir		frame ra CBR Pro bandwic 3 config Adjustal Timesta OSD (Or	eam™ suppo ate adjustmer for good ir th transmissi urable privac ble image size mp and text on screen Displ m of 5 simult ions	nt nage quality on y mask areas e and quality overlay ay) position a	in limited s adjustable			
Audio		•						
Audio inputs		1 Line-in, rugged RCA connector, or						
			1 built-in microphone input					
Audio forma	t	Mono, PCM	(G.711)					
Network								
Protocols Ethernet		TCP, UDP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DHCP, UPnP, RTP, RTSP, ICMP, QoS, SNMPv1/v2c/v3, DDNS, TFTP, OPT 66/67 1 10/100BaseT(X) Ethernet port, M12 D-code						
		connector						
Power Req	uirements							
Input		Power-over-	Ethernet (IEE	E 802.3af)				
Consumption		Maximum 6	W					
Physical Ch	naracterist							
Housing		IP66 rain and dust protection, vandal-proof						
		protection						
Dehumidifying Membrane		GORE protective vent						
Dimensions		110 mm (di	ameter) x 47	mm (height)				
		310 g	,					
	0		Surface (ceiling) mounting					
Weight Installation		Environmental Limits						
Weight Installation	ntal Limits							
Weight Installation		Standard m						
Weight Installation Environme	emperature	Standard m Wide temp.		to 70°C (-40				
Weight Installation Environme Operating Te	emperature nperature	Standard m Wide temp. -40 to 85°C	models: -40	to 70°C (-40 F)				
Weight Installation Environmel Operating Te Storage Tem	emperature nperature	Standard m Wide temp. -40 to 85°C	models: -40 (-40 to 185°	to 70°C (-40 F)				
Weight Installation Environmen Operating Te Storage Tem Ambient Rela	emperature nperature ative	Standard m Wide temp. -40 to 85°C 5 to 95% (n	models: -40 (-40 to 185°	to 70°C (-40 F)				
Weight Installation Environmen Operating Te Storage Tem Ambient Rela Humidity	emperature nperature ative	Standard m Wide temp. -40 to 85°C 5 to 95% (n	models: -40 (-40 to 185°	to 70°C (-40 F)				
Weight Installation Environmer Operating Te Storage Tem Ambient Rela Humidity Regulatory	emperature nperature ative	Standard m Wide temp. -40 to 85°C 5 to 95% (n	models: -40 (-40 to 185° ion-condensir	to 70°C (-40 F)				

FMC					
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m				
	IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV				
	IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV				
	IEC 61000-4-6 CS: 10 V				
Rail Traffic	IEC 61000-4-8				
	EN 50155*, EN 45545-2				
	e for rolling stock railway applications, as defined				
	ard. For a more detailed statement, click here: ecs/EN 50155 Compliance.pdf				
Shock	IEC 61373				
	1				
Freefall	IEC 60068-2-32				
Vibration	IEC 61373				
Vandal resistance	IEC 62262, IK10 level				
Fire Protection	EN 45545-2: 2013				
MTBF (mean time bet					
Time	Ground Benign: 1,944,687 hours				
	Ground Mobile: 206, 189 hours				
Standard Telcordia TR/SR					
Warranty					
Warranty Period 5 years					
Details	See www.moxa.com/warranty				
Alarm Features					
Intelligent Video: Camera tamper					
 Video Motion Detection: 3 independently configurable motion areas 					
 Scheduling: Daily repeat timing schedule 					
 Imaging: JPEG snap 	 Imaging: JPEG snapshots for pre/trigger/post alarm images 				
 Email/FTP Messaging: Automatic transfer of stored images via email 					
or FTP as event-triggered actions					
Custom Alarms: HTTP event servers for setting customized alarm					
• actions					
Security					
Password: User level password protection					
	Filtering: By IP address				
• •	Encryption: HTTPS, SSH				
Minimum Viewing System Requirements					
Pentium 4, 2.4 GHz					
• 512 MB of memory					
 Windows XP with SP3 and above, Windows 7 					
 Internet Explorer 9.x or above 					
 DirectX 9.0c or above 					
Software Development Kit					
VPort SDK PLUS	Includes CGI commands, ActiveX Control, and				
VI ULI JUN FLUJ	API library for customized applications or system				
	integration for third-party developer				
Standard	ONVIF				