VPort P06-1MP-M12 Series

EN 50155 compliant, HD video image, compact IP cameras



- > Compliant with EN 50121-3-2 and essential sections of EN 50155 (standard model supports T1 temperatures, -25 to 55°C; T model supports TX temperatures, -40 to 70°C)
- > 1/2.7" progressive scan camera with maximum 1280 x 800 resolution at up to 30 frames/second
- > High quality video image with DNR and WDR
- > Up to 3 independent video streams (2 H.264/1 MJPEG)
- > DynaStream[™] supported for maximized network efficiency
- > CBR Pro™ supported for high image guality in limited bandwidth transmissions
- > Supports DHCP Opt 66/67 for auto-configuration
- > 1 built-in audio input
- > ONVIF supported for standardization and interoperability





Introduction

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 feature EN 50155 compliance,

vandal-proofing (EN 62262 IK8), -25 to 55°C or -40 to 75 °C (T models) operating temperature, a rugged M12 Ethernet port, 1 audio input, PoE power inputs, IP66 rain and dust protection, a dehumidifying membrane, and a selectable lens.

Excellent Image Quality

The VPort P06-1MP-M12 is equipped with a cutting-edge CMOS sensor, which provides excellent high resolution video images at 1280 x 800 pixels and covers larger areas than legacy analog cameras. With the addition of DNR (Digital Noise Reduction), BLC (Black Level

Rugged Hardware Design

The VPort P06-1MP-M12's 47 mm height makes it ideal for tough vehicle environments with limited installation space. It is compliant with EN 50121-3-2 (EMC), EN 61373 for shock and vibration, and essential sections of EN 50155, with standard models designed for T1 temperatures, and wide temp. models designed to withstand TX

High Video Performance

The VPort P06-1MP-M12 is designed to provide both H.264 and MJPEG video streams and transmit a maximum of 3 independent video streams (2 H.264, 1 MJPEG) simultaneously. In addition, Moxa's DynaStream[™] function allows you to change the video frame rate automatically, which can help you control your network bandwidth

P06-1MP-M12 provides an extremely clear picture of the surveillance region.

Control), and WDR (Wide Dynamic Range) functions, the VPort

temperatures (-40 to 70°C: note that both models are also tested for 10 min. at +15°C over the max. of 70°C and 90°C), without a fan or other cooling equipment. Moreover, the VPort P06-1MP-M12 achieves the highest enclosure protection, IEC 62262 Class IK9, providing users with a true, vandal-proof IP camera.

budget and ease network system management. The CBR Pro[™] function can guarantee the lowest packet loss in limited bandwidth transmissions, which ensures that images will not exhibit the mosaic effect. A DHCP Opt66/67 auto-configuration mechanism simplifies the workload of mass installation and maintenance by backing up the configuration on a TFTP server.

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 160°. Horizontal 100°. Vertical 71° • 4.2 mm, F1.6: Diagonal 89°, Horizontal 70°, Vertical 51° • 6.0 mm, F1.8: Diagonal 83°, Horizontal 65°, Vertical 51° Camera Angle: Pan: ±30°: Tilt: 0-90°. Rotate: ±180° Illumination (low light sensitvity): 0.2 Lux at F=1.2 Synchronization: Internal White Balance: ATW/AWB (range: 3200 to 10000°K) Auto Electronic Shutter: 1/30 to 1/25000 sec Electronic Shutter: Auto S/N Ratio: 50 dB (Gamma, Aperture, AGC, OFF: DNR ON) DNR: Built-in DNR WDR: Level 1-8 AGC Control: 2X. 4X. 8X. 16X. 32X. 64X Flickerless Control: Automatic/50 Hz/60 Hz 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 Outputs: Via Ethernet

Video Streams: Maximum of 3 video streams

• Stream 1: H.264, 1280 x 800 resolution (max.)

• Stream 2: H.264, 720 x 576 resolution (max.)

• Stream 3: MJPEG, 720 x 576 resolution (max.) Note: Streams 2 and 3 must be set to the same resolution Video Resolution and FPS (frames per second):

	NTSC		PAL	
	Size	Max. FPS	Size	Max. FPS
QCIF	176 x 112	30	176 x 144	25
CIF	352 x 240	30	352 x 288	25
VGA	640 x 480	30	640 x 480	25
4CIF	704 x 480	30	704 x 576	25
Full D1	720 x 480	30	720 x 576	25
SVGA	800 x 600	30	800 x 600	25
HD	1280 x 720	30	1280 x 720	25
WXGA	1280 x 800	30	1280 x 800	25

Video Viewing:

• DynaStream[™] supported for automatic frame rate adjustment

• CBR Pro[™] for good image quality in limited bandwidth transmission

- 3 privacy mask areas configurable
- Adjustable image size and quality
- · Timestamp and text overlay
- OSD (On screen Display) position adjustable
- · Maximum of 5 simultaneous unicast connections
- Digital PTZ with 4x zoom

Audio

Audio Inputs: 1, Line-in, rugged RCA connector Audio Format: Mono, PCM (G.711)

Network

Protocols: TCP/IP, UDP, HTTP, SMTP, NTP, DNS, DHCP, UPnP, RTP, RTSP, ICMP, QoS,IGMPv3, SNMPv1/v2c/v3, DDNS, TFTP, ARP, DHCP, 0PT66/67

Ethernet: 1 10/100BaseT(X) Ethernet port, 4-pin M12 D-code female connector

Power Requirements

Input: Power-over-Ethernet (IEEE 802.3af)

Physical Characteristics

Housing: IP66 rain and dust protection, EN 62262 IK9 vandal-proof protection

Dimensions: 110 mm (diameter) x 47 mm (height)

Weight: 310 g

Installation: Surface mounting

Alarms

Video Motion Detection: 3 independently configurable motion areas Scheduling: Daily repeat timing schedule

Imaging: JPEG snapshots for pre/trigger/post alarm images Custom Alarms: HTTP event servers for setting customized alarm actions

Email/FTP Messaging: Automatic transfer of stored images via email or FTP as event-triggered actions

Intelligent Video: Camera tamper

Pre-alarm Buffer: 12 MB video buffer for JPEG snapshot images Security

Password: User level password protection

Filtering: By IP address Encryption: HTTPS, SSH

Environmental Limits

Operating Temperature: Standard model: -25 to 55°C (-13 to 131°F) Wide Temp. model: -40 to 75°C (-40 to 167°F) Storage Temperature: -40 to 85°C (-40 to 185°F) Ambient Relative Humidity: 5 to 95% (non-condensing) Conformal Coating: Available on request

Standards and Certifications

Safety: UL 60950-1 EMI: FCC Part 15, CISPR (EN 55022) class A EMS: EN 61000-4-2 (ESD), Level 3, EN 61000-4-3 (RS), Level 3, EN 61000-4-4 (EFT), Level 3, EN 61000-4-5 (Surge), Level 3, EN 61000-4-6 (CS), Level 3, EN 61000-4-8, EN 61000-4-11 Rolling Stock: EN 50155:2007 compliance (shock, vibration, temperature, EMC) Shock: IEC 61373 Freefall: IEC 60068-2-32 Vibration: IEC 61373 Vandal Resistance: EN 62262, IK9 level Warranty

warranty

Warranty Period: 5 years Details: See www.moxa.com/warranty

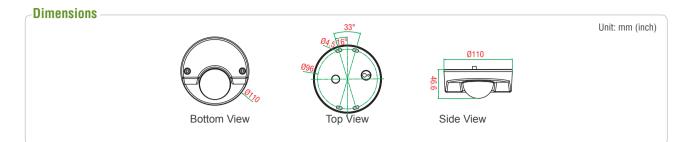
Minimum Viewing System Requirements

CPU: Pentium 4, 2.4 GHz Memory: 512 MB of memory OS: Windows XP with SP3 or above, Windows 7 Browser: Internet Explorer 6.x or above Multimedia: DirectX 9.0c or above

Software Development Kit

VPort SDK PLUS: Includes CGI commands, ActiveX Control, and API library for customized applications or system integration for third-party developers (the latest version of SDK is vailable for download from Moxa's website).

Standard: ONVIF



Crdering Information

Standard Temperature Models -25 to 55°C	Wide Temperature Models -40 to 75°C	Lens Focal Length
VPort P06-1MP-M12-CAM36	VPort P06-1MP-M12-CAM36-T	3.6 mm
VPort P06-1MP-M12-CAM42	VPort P06-1MP-M12-CAM42-T	4.2 mm
VPort P06-1MP-M12-CAM60	VPort P06-1MP-M12-CAM60-T	6.0 mm

Package Checklist -

- VPort P06-1MP-M12 IP camera
- L-type Torx screw driver
- 4 indented hexagon head tapping screws, nuts, gaskets and spring washers
- Installation stick
- Quick installation guide (printed)
- Documentation and software CD
- Warranty card

*Conformal coating available upon request

Optional Accessories (can be purchased separately)

SoftNVR-IA V3.0: 64-channel IP surveillance software for industrial automation applications VP-SC01: Side-cable-out adaptor for mounting the VPort P06-1MP-M12 on a surface VP-FP1: Fixed plate with threaded screw holes for mounting the VPort P06-1MP-M12 directly over a ceiling aperature

Side-cable-out adaptor for surface mounting

VP-SC01

Dimensions: Ø110 x 17 (H) mm Material: Plastic Operating temperature: -30 to 120°C Weight: 60 g



Plate with threaded screw holes for ceiling mounting

VP-FP1 Dimensions: 110 (L) x 40 (W) mm Material: Metal Weight: 40 g

