VPort P06HC-1MP-M12 Series

HD video image, square-type IP cameras for mobile surveillance





with front decorative plate

- > Complies with all EN 50155 mandatory test items*
- > -25 to 55°C operating temperature
- > 1/2.7" progressive scan camera with maximum 1280 x 800 resolution at up to 30 frames/second
- > Flush mounting for hiding inside a panel, such as a wall or ceiling
- > Up to 3 H.264 or MJPEG independent video streams
- > DynaStream™ support for maximized network efficiency
- > CBR Pro™ support for high image quality in limited bandwidth
- > Supports DHCP Opt 66/67 for auto-configuration
- > 1 built-in microphone for audio input, and 1 digital input for external sensor
- > ONVIF support for standardization and interoperability
 - *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











Introduction

The VPort P06HC-1MP-M12 square-type IP cameras provide an HD (720P, 1280 x 720) video image, and feature 3 H.264/MJPEG video streams, giving them the versatility and ruggedness to excel in many different installations and environments for IP video surveillance applications. In addition, the cameras comply with a portion of EN 50155 specifications, covering operating temperature, power input

voltage, surge, ESD, and vibration, making them suitable for a variety of industrial applications. The cameras feature a -25 to 55°C operating temperature, a rugged M12 Ethernet port, 1 built-in microphone, 1 digital input, PoE power inputs, IP66 rain and dust protection, and a selectable lens.

Specifications

Sensor: 1/2.7" HD progressive scan CMOS Lens: 3.6 mm megapixel fixed focal length lens

Angle of View:

• 3.6 mm, F1.6: Diagonal 120°, Horizontal 96°, Vertical 56°

Minimum Illumination: 0.2 Lux @ F=1.2

Synchronization: Internal White Balance: ATW/AWB

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 1-3, up to 115 dB

AGC (auto gain control): 2X, 4X, 8X, 16X Flickerless Control: Automatic/50 Hz/60 Hz mode

Auto Exposure: Level ±5

Image Rotation: Flip, Mirror, and 180° rotation

Image Setting: Manual tuning with brightness and contrast

Video

Video Compression: H.264 (ISO/IEC 14496-10) or MJPEG

Video Output: via Ethernet

Video Streams: 3 independent H.264 or MJPEG 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
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:

- DvnaStream[™] support 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, built-in microphone 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, ORTGO: 67

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

GPIO

Digital Inputs: 1, max. 8 mA, isolated 5-pin M12 connector

High: +13 V to +30 V; Low: -30 V to +3 V

Power Requirements

Input: Power-over-Ethernet (IEEE 802.3af)
Power Consumption: 6 W (max.)

Physical Characteristics

Housing: IP66 metal housing with transparent cover **Dimensions:** 109 x 68 x 90 mm (4.29 x 2.68 x 3.54 in)

Weight: 903 g (1.1 lb)
Installation: Flush mounting

Alarms

Intelligent Video: Camera tamper

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

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: -25 to 55°C (-13 to 131°F) Storage Temperature: -40 to 75°C (-40 to 167°F) Ambient Relative Humidity: 5 to 95% (non-condensing)

Altitude: 2000 m

Conformal Coating: Available on request Standards and Certifications

Safety: UL 60950-1

Rail Traffic: EN 50155*, EN 45545-2

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www.moxa.com/doc/specs/EN_50155_Compliance.pdf **EMI:** FCC Part 15, CISPR (EN 55032) class A

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 IEC 61000-4-8 Shock: IEC 61373 Freefall: IEC 60068-2-32 Vibration: IEC 61373

Note: Please check Moxa's website for the most up-to-date certification status.

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Minimum Viewing System Requirements

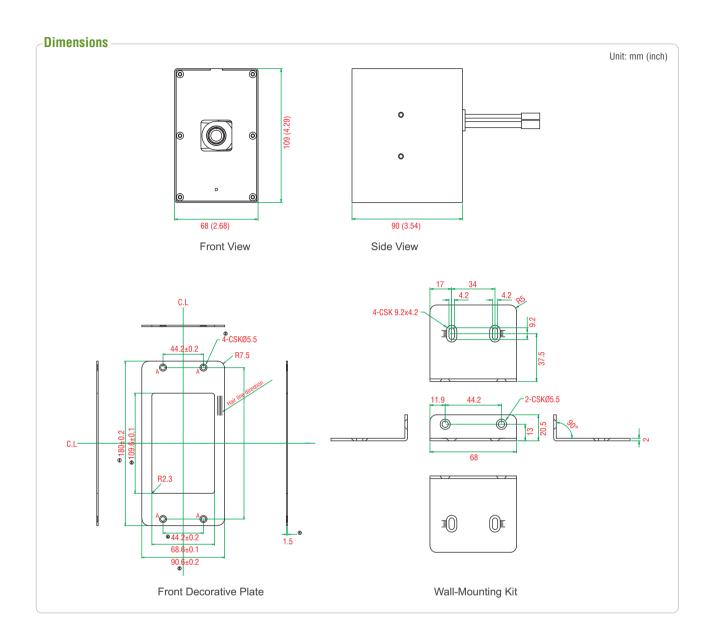
CPU: Pentium 4, 2.4 GHz **Memory:** 512 MB of memory

0S: Windows XP/2000 with SP4 or above, Windows Vista, Windows 7

Browser: Internet Explorer 9.x or above Multimedia: DirectX 9.0c or above Software Development

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 available for download from Moxa's website).

Standard: ONVIF



Ordering Information

Available Models

VPort P06HC-1MP-M12-CAM36: EN 50155 compliant, HD, H.264/MJPEG square-type IP camera, 3.6 mm lens, M12 Ethernet connector, PoE, -25 to 55°C operating temperature Note: Conformal coating available upon request

Optional Accessories (can be purchased separately)

SoftNVR-IA: 64-channel IP surveillance software for industrial automation applications **VP-FD1:** Front decorative plate for the VPort P06HC

Package Checklist -

- VPort P06HC-1MP-M12 IP camera
- L-type Torx screwdriver
- Dry pack
- Hook fasteners
- 2 L-type installation kits and 4 nylock screws
- Installation stick
- Quick installation guide (printed)
- Documentation and software CD
- · Warranty card