

# VPort 06-2シリーズ

## EN 50155、1080Pビデオ映像、コンパクトIPカメラ



### 機能とメリット

- 1/3”プログレッシブスキャンカメラ、最大解像度1920 x 1080、最高30 fps
- DNRおよびWDRを使用した高品質なビデオ画像
- 最大4つの独立したH.264またはMJPEGビデオストリームに対応
- DynaStream™により最適化されたネットワーク効率を実現
- CBR Pro™により制限された帯域幅でも高品質の画像を伝送
- ローカルストレージ用のSDXC（最大2TBのSDカード）に対応
- 1系統の内蔵オーディオ入力またはマイク
- ONVIF対応により標準化と相互運用性を実現

### 認証



### 製品紹介

VPort 06-2カメラは、モバイルビデオ監視アプリケーション向けに設計されたコンパクトな1080P（1920 x 1080）、H.264/MJPEG対応のドーム型IPカメラです。これらのカメラはEN 50155の必須検査事項であるEN 62262 IK8に準拠しています<sup>1</sup>。また、-25～55°Cまたは-40～70°Cの動作温度範囲をサポートしています。堅牢なM12イーサネットポート、最大2TB SDカード用のSDXCスロット、ONVIF Profile S規格、内蔵オーディオ入力またはマイク、PoEまたは24VDC電源入力、IP66保護等級、およびレンズ交換の選択肢を備えた、VPort 06-2カメラはさまざまな過酷な環境下で高い信頼性を実現するため、多種多様なモバイルビデオ監視アプリケーションに適しています。

### 仕様

#### Memory

microSD Slot	SDXC
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#### Input/Output Interface

Digital Input Channels	1
Digital Inputs	+13 to +30 V for state 1 -30 to +1 V for state 0 Max. input current: 8 mA
Connector	VPort P06-2 Series: 5-pin male M12 connector with 20 cm cable VPort 06-2 Series: DB9 male

#### Ethernet Interface

PoE Ports (10/100BaseT(X), M12 D-coded 4-pin female connector)	VPort P06-2 Series: 1
10/100BaseT(X) Ports (M12 D-coded 4-pin female connector)	VPort 06-2 Series: 1

#### Ethernet Software Features

Protocols	TCP/IP, IPv4/IPv6, UDP, HTTP, RTP/RTSP, ARP, UPnP, FTP, TFTP, SMTP, NTP Client, DNS, DDNS, QoS, IGMP v3, ICMP, SNMPv1/v2c/v3, DHCP Opt66/67, HTTPS, SIP
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1. 本製品は、EN 50155規格で定められた鉄道車両アプリケーションに適しています。詳細については、こちらを参照してください：[www.moxa.com/doc/specs/EN\\_50155\\_Compliance.pdf](http://www.moxa.com/doc/specs/EN_50155_Compliance.pdf)

## Security Functions

Password	User-level password protection
Filter	IP address
Encryption	HTTPS

## Power Parameters

No. of Power Inputs	1
Source of Input Power	VPort P06-2 Series: PoE (IEEE 802.3af)
Input Voltage	VPort 06-2 Series: 12/24 VDC
Input Current	VPort 06-2 Series: 0.86 A @ 12 VDC; 0.38 A @ 24 VDC VPort P06-2 Series: 0.17 A @ 48 VDC
Power Connector	VPort 06-2 Series: DB9 connector

## Camera Characteristics

Sensor	1/3-in 1080P progressive scan CMOS
Lens	VPort 06/P06-2x25M Series: f=2.5 mm, F1.6, Diagonal 120°, Horizontal 101°, Vertical 57° VPort 06/P06-2x36M Series: f=3.6 mm, F1.6, Diagonal 99°, Horizontal 70°, Vertical 39° VPort 06/P06-2x42M Series: f=4.2 mm, F1.6, Diagonal 82°, Horizontal 62°, Vertical 34° VPort 06/P06-2x60M Series: f=6.0 mm, F1.8, Diagonal 62°, Horizontal 43°, Vertical 24° VPort 06/P06-2x80M Series: f=8.0 mm, F1.6, Diagonal 42°, Horizontal 33°, Vertical 17°
Minimum Illumination	Color: 0.2 lux, at F1.2 (Gain High, 50 IRE, 1/30 sec)
Synchronization	Internal
White Balance	ATW/AWB
Electronic Shutter	Auto, Fixed (1/30 to 1/25000 sec)
S/N Ratio	Maximum 50 dB (AGC off; DNR on)
DNR (digital noise reduction)	Built-in 2D/3D DNR
WDR (wide dynamic range)	100 dB
AGC (auto gain control)	2X, 4X, 8X, 16X
Flickerless Control	Automatic, 50 Hz, 60 Hz modes
Image Rotation	Flip, Mirror, 90°, 180°, 270° rotation
Image Setting	Manual tuning with saturation, sharpness, and contrast
Camera Angle	Pan: ±15°, Tilt: 0° to 90° (controlled manually) Note: Tilt of 2.5 mm lens model is 30° to 60°

## Video Interface

Video Compression	H.264 (ISO/IEC 14496-10) or MJPEG
Video Output	via Ethernet
Video Streams	4 independent H.264 or MJPEG video streams

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
Full HD	1920 x 1080	30	1920 x 1080	25	
Video Viewing	DynaStream™ support for changing the video frame rate automatically CBR Pro™ for good image quality in limited bandwidth transmissions 3 privacy mask areas provided Adjustable image size and quality Timestamp and text overlay OSD (On Screen Display) position adjustable Maximum of 5 simultaneous unicast connections, 50 multicast clients				

## Audio Interface

Audio Format	Mono, PCM (G.711) AAC
Audio Inputs	VPort 06/P06-2MxxM Series: 1 x built-in microphone VPort 06-2LxxM Series: 1 x line-in, with DB9 connector VPort P06-2LxxM Series: 1 x line-in, with M12 connector

## Camera Software Development

Video Standards	ONVIF Profile S
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## Camera Alarm Software Features

Intelligent Video	Camera tampering detection
Video Motion Detection	3 independently configurable areas
Shock Detection	Built-in G sensor
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	50 MB video buffer for JPEG snapshot images
Video Recording	Event recordings stored on the SD card

## Software Requirements

Memory Size	2 GB
Operating System	Windows 7 or above

Browser	Internet Explorer 9.x or above
Multimedia	DirectX 9.0C or above

### Physical Characteristics

Housing	IP66 rain and dust protection Metal housing, PC dome cover IK8 vandal resistant protection
Dimensions	110 x 115.5 x 61.8 mm (4.33 x 4.53 x 2.43 in)
Weight	620 g (1.37 lb)
Installation	Panel mounting
Protection	-CT models: PCB conformal coating

### Environmental Limits

Operating Temperature	Standard Models: -25 to 55°C (-13 to 131°F) Wide Temp. Models: -40 to 70°C (-40 to 158°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Ingress Protection	IEC 60529, IP66
Vandal Resistance	EN 62262, IK8
Altitude	2000 m Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes.

### Standards and Certifications

EMI	CISPR 32, FCC Part 15B 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 PFMF
Freefall	IEC 60068-2-31
Railway Fire Protection	EN 45545-2
Safety	UL 60950-1
Shock	IEC 60068-2-27, IEC 61373, EN 50155
Vibration	IEC 60068-2-64, IEC 61373, EN 50155
Railway	EN 50155 (complies with a portion of EN 50155 specifications), GB/T 24338.4-2009

### MTBF

Time	VPort 06-2LXXM Series: 1,063,089 hrs VPort 06-2MXXM Series: 1,039,008 hrs VPort P06-2LXXM Series: 1,075,216 hrs VPort P06-2MXXM Series: 1,050,590 hrs
Standards	Telcordia SR332



Model Name	Lens	Audio Interface	Local Storage	Power Input	Operating Temp.	Conformal Coating
VPort 06-2L25M-T	2.5 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	-
VPort 06-2M25M	2.5 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	-
VPort 06-2M25M-T	2.5 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	-
VPort 06-2L25M-CT	2.5 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	P
VPort 06-2L25M-CT-T	2.5 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	P
VPort 06-2M25M-CT	2.5 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	P
VPort 06-2M25M-CT-T	2.5 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	P
VPort P06-2L36M	3.6 mm	Line-in	microSD slot, SDXC interface	PoE	-25 to 55°C	-
VPort P06-2L36M-T	3.6 mm	Line-in	microSD slot, SDXC interface	PoE	-40 to 70°C	-
VPort P06-2M36M	3.6 mm	Microphone	microSD slot, SDXC interface	PoE	-25 to 55°C	-
VPort P06-2M36M-T	3.6 mm	Microphone	microSD slot, SDXC interface	PoE	-40 to 70°C	-
VPort P06-2L36M-CT	3.6 mm	Line-in	microSD slot, SDXC interface	PoE	-25 to 55°C	P
VPort P06-2L36M-CT-T	3.6 mm	Line-in	microSD slot, SDXC interface	PoE	-40 to 70°C	P
VPort P06-2M36M-CT	3.6 mm	Microphone	microSD slot, SDXC interface	PoE	-25 to 55°C	P
VPort P06-2M36M-CT-T	3.6 mm	Microphone	microSD slot, SDXC interface	PoE	-40 to 70°C	P
VPort 06-2L36M	3.6 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	-
VPort 06-2L36M-T	3.6 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	-
VPort 06-2M36M	3.6 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	-
VPort 06-2M36M-T	3.6 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	-
VPort 06-2L36M-CT	3.6 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	P
VPort 06-2L36M-CT-T	3.6 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	P
VPort 06-2M36M-CT	3.6 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	P
VPort 06-2M36M-CT-T	3.6 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	P
VPort P06-2L42M	4.2 mm	Line-in	microSD slot, SDXC interface	PoE	-25 to 55°C	-
VPort P06-2L42M-T	4.2 mm	Line-in	microSD slot, SDXC interface	PoE	-40 to 70°C	-
VPort P06-2M42M	4.2 mm	Microphone	microSD slot, SDXC interface	PoE	-25 to 55°C	-

Model Name	Lens	Audio Interface	Local Storage	Power Input	Operating Temp.	Conformal Coating
VPort P06-2M42M-T	4.2 mm	Microphone	microSD slot, SDXC interface	PoE	-40 to 70°C	-
VPort P06-2L42M-CT	4.2 mm	Line-in	microSD slot, SDXC interface	PoE	-25 to 55°C	P
VPort P06-2L42M-CT-T	4.2 mm	Line-in	microSD slot, SDXC interface	PoE	-40 to 70°C	P
VPort P06-2M42M-CT	4.2 mm	Microphone	microSD slot, SDXC interface	PoE	-25 to 55°C	P
VPort P06-2M42M-CT-T	4.2 mm	Microphone	microSD slot, SDXC interface	PoE	-40 to 70°C	P
VPort 06-2L42M	4.2 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	-
VPort 06-2L42M-T	4.2 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	-
VPort 06-2M42M	4.2 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	-
VPort 06-2M42M-T	4.2 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	-
VPort 06-2L42M-CT	4.2 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	P
VPort 06-2L42M-CT-T	4.2 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	P
VPort 06-2M42M-CT	4.2 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	P
VPort 06-2M42M-CT-T	4.2 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	P
VPort P06-2L60M	6.0 mm	Line-in	microSD slot, SDXC interface	PoE	-25 to 55°C	-
VPort P06-2L60M-T	6.0 mm	Line-in	microSD slot, SDXC interface	PoE	-40 to 70°C	-
VPort P06-2M60M	6.0 mm	Microphone	microSD slot, SDXC interface	PoE	-25 to 55°C	-
VPort P06-2M60M-T	6.0 mm	Microphone	microSD slot, SDXC interface	PoE	-40 to 70°C	-
VPort P06-2L60M-CT	6.0 mm	Line-in	microSD slot, SDXC interface	PoE	-25 to 55°C	P
VPort P06-2L60M-CT-T	6.0 mm	Line-in	microSD slot, SDXC interface	PoE	-40 to 70°C	P
VPort P06-2M60M-CT	6.0 mm	Microphone	microSD slot, SDXC interface	PoE	-25 to 55°C	P
VPort P06-2M60M-CT-T	6.0 mm	Microphone	microSD slot, SDXC interface	PoE	-40 to 70°C	P
VPort 06-2L60M	6.0 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	-
VPort 06-2L60M-T	6.0 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	-
VPort 06-2M60M	6.0 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	-
VPort 06-2M60M-T	6.0 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	-
VPort 06-2L60M-CT	6.0 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	P

Model Name	Lens	Audio Interface	Local Storage	Power Input	Operating Temp.	Conformal Coating
VPort 06-2L60M-CT-T	6.0 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	P
VPort 06-2M60M-CT	6.0 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	P
VPort 06-2M60M-CT-T	6.0 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	P
VPort P06-2L80M	8.0 mm	Line-in	microSD slot, SDXC interface	PoE	-25 to 55°C	-
VPort P06-2L80M-T	8.0 mm	Line-in	microSD slot, SDXC interface	PoE	-40 to 70°C	-
VPort P06-2M80M	8.0 mm	Microphone	microSD slot, SDXC interface	PoE	-25 to 55°C	-
VPort P06-2M80M-T	8.0 mm	Microphone	microSD slot, SDXC interface	PoE	-40 to 70°C	-
VPort P06-2L80M-CT	8.0 mm	Line-in	microSD slot, SDXC interface	PoE	-25 to 55°C	P
VPort P06-2L80M-CT-T	8.0 mm	Line-in	microSD slot, SDXC interface	PoE	-40 to 70°C	P
VPort P06-2M80M-CT	8.0 mm	Microphone	microSD slot, SDXC interface	PoE	-25 to 55°C	P
VPort P06-2M80M-CT-T	8.0 mm	Microphone	microSD slot, SDXC interface	PoE	-40 to 70°C	P
VPort 06-2L80M	8.0 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	-
VPort 06-2L80M-T	8.0 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	-
VPort 06-2M80M	8.0 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	-
VPort 06-2M80M-T	8.0 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	-
VPort 06-2L80M-CT	8.0 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	P
VPort 06-2L80M-CT-T	8.0 mm	Line-in	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	P
VPort 06-2M80M-CT	8.0 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-25 to 55°C	P
VPort 06-2M80M-CT-T	8.0 mm	Microphone	microSD slot, SDXC interface	12/24 VDC	-40 to 70°C	P

## アクセサリ（別売）

### Camera Mounting Kits

VP-SCO2	Side-cable-out adaptor for mounting the VPort 06
VP-FP2	Fixed plate for mounting the VPort 06
VP-06TC2C	Top cover for the VPort 06-2L, coating dome cover  Applicable Models: VPort 06-2L25M VPort 06-2L25M-T VPort 06-2L25M-CT VPort 06-2L25M-CT-T VPort 06-2L36M VPort 06-2L36M-T VPort 06-2L36M-CT VPort 06-2L36M-CT-T



	VPort 06-2L42M VPort 06-2L42M-T VPort 06-2L42M-CT VPort 06-2L42M-CT-T VPort 06-2L60M VPort 06-2L60M-T VPort 06-2L60M-CT VPort P06-2L25M VPort P06-2L25M-T VPort P06-2L25M-CT VPort P06-2L25M-CT-T VPort P06-2L36M VPort P06-2L36M-T VPort P06-2L36M-CT VPort P06-2L36M-CT-T VPort P06-2L42M VPort P06-2L42M-T VPort P06-2L42M-CT VPort P06-2L42M-CT-T VPort P06-2L60M VPort P06-2L60M-T VPort P06-2L60M-CT VPort P06-2L60M-CT-T VPort P06-2L80M VPort P06-2L80M-T VPort P06-2L80M-CT VPort P06-2L80M-CT-T
VP-06MTC2C	Top cover for the VPort 06-2M, coating dome cover  Applicable Models: VPort 06-2M25M VPort 06-2M25M-T VPort 06-2M25M-CT VPort 06-2M25M-CT-T VPort 06-2M36M VPort 06-2M36M-T VPort 06-2M36M-CT VPort 06-2M36M-CT-T VPort 06-2M42M VPort 06-2M42M-T VPort 06-2M42M-CT VPort 06-2M42M-CT-T VPort 06-2M60M VPort 06-2M60M-T VPort 06-2M60M-CT VPort 06-2M60M-CT-T VPort 06-2M80M VPort 06-2M80M-T VPort 06-2M80M-CT VPort 06-2M80M-CT-T VPort P06-2M25M VPort P06-2M25M-T VPort P06-2M25M-CT VPort P06-2M25M-CT-T VPort P06-2M36M VPort P06-2M36M-T VPort P06-2M36M-CT VPort P06-2M36M-CT-T VPort P06-2M42M VPort P06-2M42M-T VPort P06-2M42M-CT VPort P06-2M42M-CT-T VPort P06-2M60M VPort P06-2M60M-T VPort P06-2M60M-CT VPort P06-2M60M-CT-T VPort P06-2M80M VPort P06-2M80M-T VPort P06-2M80M-CT VPort P06-2M80M-CT-T
VP-DP01	0.6 g x 2 dry pack with sticker

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