

VPort 07-3 系列

EN 50155 3 百萬像素 H.265 輕巧型 IP 攝影機



特色與優點

- 1/3 吋逐行掃描攝影機，20 fps 時可達到 2048 x 1536 解析度，30 fps 時可達到 1920 x 1080 解析度
- 以 DNR 和 WDR 提供高畫質影像
- 可同時支援高達 4 組 H.265/H.264 或 MJPEG 獨立影像串流
- DynaStream™ 可優化網路效能
- CBR Pro™ 在有限頻寬傳輸更高畫質的影像
- 內建 1 組音源輸入或是麥克風
- 符合 ONVIF 中標準化和互操作性

認證



簡介

VPort 07-3 攝影機為精巧型 3 百萬像素 (2048 x 1536)、H.265/H.264/MJPEG 半球型網路攝影機，專為行動視訊 監控應用所設計。此系列攝影機符合 EN 62262 IK8、EN 50155 強制部份，¹ 並支援 -40 至 55°C 或 -40 至 70°C 的操作溫度範圍。VPort 07-3 攝影機採用堅固耐用的 M12 乙太網路連接埠、ONVIF Profile S、T、M 標準化、內建音源線路連接埠或麥克風、PoE 或 24 VDC 電源輸入、IP66 防護等級，以及可更換的鏡頭，VPort 07-3 攝影機在各種 極端環境條件下能可靠地運作，因此適用於各種 行動視訊監控應用。

規格

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 P07-3 Series: 5-pin male M12 connector with 20 cm cable VPort 07-3 Series: DB9 male

Ethernet Interface

PoE Ports (10/100BaseT(X), M12 D-coded 4-pin female connector)	VPort P07-3 Series: 1
10/100BaseT(X) Ports (M12 D-coded 4-pin female connector)	VPort 07-3 Series: 1

1. 本產品適用於 符合 EN 50155 標準所定義的 軌道車輛應用。
如需更詳細的說明，請參閱：www.moxa.com/doc/specs/EN_50155_Compliance.pdf

Ethernet Software Features

Protocols	TCP/IP IPv4/IPv6 UDP HTTP RTP/RTSP ARP UPnP FTP TFTP SFTP NTP Client DNS QoS IGMP v3 ICMP SNMPv1/v2c/v3 DHCP Opt66/67 HTTPS
-----------	--

Security Functions

Password	User-level password protection
Filter	IP address
System Boot	Secure Boot
Encryption	HTTPS SSH

Power Parameters

No. of Power Inputs	1
Source of Input Power	VPort P07-3 Series: PoE (IEEE 802.3af)
Input Voltage	VPort 07-3 Series: 12/24 VDC
Input Current	VPort P07-3: 48 VDC @ 0.137 A VPort 07-3: 24V VDC @ 0.27 A; 12 VDC @ 0.59 A
Power Connector	VPort 07-3 Series: DB9 connector

Camera Characteristics

Sensor	1/3-in 3-megapixel progressive scan CMOS
Lens	VPort 07/P07-3x24M Series: f=2.4 mm, F2.0, Diagonal 139°, Horizontal 110°, Vertical 81° VPort 07/P07-3x36M Series: f=3.6 mm, F1.6, Diagonal 97°, Horizontal 75°, Vertical 55° VPort 07/P07-3x42M Series: f=4.2 mm, F1.6, Diagonal 82°, Horizontal 64°, Vertical 47° VPort 07/P07-3x60M Series: f=6.0 mm, F1.8, Diagonal 57°, Horizontal 43°, Vertical 32° VPort 07/P07-3x80M Series: f=8.0 mm, F1.6, Diagonal 41°, Horizontal 33°, Vertical 24°
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: 20° to 90° for 2.4mm lens, 0° to 90° for other lens (controlled manually)

Video Interface

Video Compression	H.265 (MPEG-H part 2/HEVC), H.264 (ISO/IEC 14496-10/AVC), or MJPEG				
Video Output	via Ethernet				
Video Streams	4 independent video streams				
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
	Full HD	1920 x 1080	30	1920 x 1080	30
	QXGA	2048 x 1536	20	2048 x 1536	20
Note: Once the 3-megapixels resolution is configured in one stream, all video streams will be only up to maximum 20 FPS at all resolutions due to sensor limitation.					
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 LDC (Lens distortion correction) for less image warp Maximum of 10 simultaneous unicast connections, 50 multicast clients				

Audio Interface

Audio Format	Mono, PCM (G.711) AAC
Audio Inputs	VPort 07/P07-3MxxM Series: 1 x built-in microphone VPort 07-3LxxM Series: 1 x line-in, with DB9 connector VPort P07-3LxxM Series: 1 x line-in, with M12 connector

Camera Software Development

Video Standards	ONVIF Profile S, T, M
-----------------	-----------------------

Camera Alarm Software Features

Intelligent Video	Camera tampering detection
Video Motion Detection	3 independently configurable areas
Imaging	JPEG snapshots for pre/trigger/post alarm images
Custom Alarms	HTTP event servers for setting customized alarm actions

FTP Messaging	Automatic transfer of stored images via FTP as event-triggered actions
Pre-Alarm Buffer	50 MB video buffer for JPEG snapshot images

Software Requirements

Memory Size	8 GB
Operating System	Windows 10 or above
Browser	Internet Explorer 11 or above Chrome: Version 118 or above Microsoft Edge: Version 118 or above
Multimedia	DirectX 12 or above

Physical Characteristics

Housing	IP66 rain and dust protection Metal housing, PC dome cover IK8 vandal resistant protection Built-in heater for dome cover demist
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	PCB conformal coating is optional and provided on request. If conformal coating is required, please contact Moxa.

Environmental Limits

Operating Temperature	Standard Models: -40 to 55°C (-40 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 62368-1
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)

Warranty

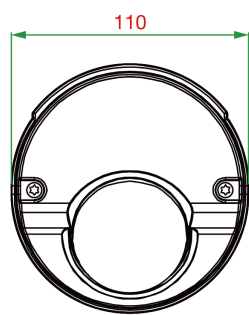
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

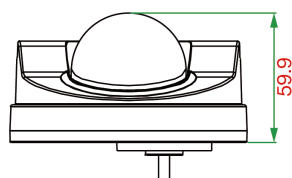
Device	1 x VPort 07-3 Series camera
Installation Kit	1 x sticker 1 x L-type Torx screwdriver 4 x indented hexagonal head tapping screws, nuts, gaskets, and spring washers
Documentation	1 x quick installation guide 1 x warranty card

尺寸

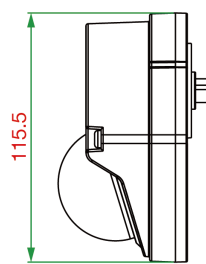
單位：公釐



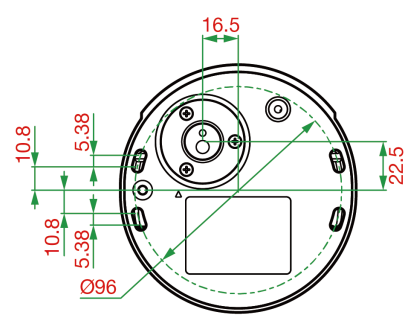
Top View



Front View



Side View



Bottom View

訂購資訊

Model Name	Lens	Audio Interface	Power Input	Operating Temp.
VPort P07-3L24M	2.4 mm	Line-in	PoE	-40 to 55°C
VPort P07-3L24M-T	2.4 mm	Line-in	PoE	-40 to 70°C
VPort P07-3M24M	2.4 mm	Microphone	PoE	-40 to 55°C
VPort P07-3M24M-T	2.4 mm	Microphone	PoE	-40 to 70°C
VPort 07-3L24M	2.4 mm	Line-in	12/24 VDC	-40 to 55°C
VPort 07-3L24M-T	2.4 mm	Line-in	12/24 VDC	-40 to 70°C
VPort 07-3M24M	2.4 mm	Microphone	12/24 VDC	-40 to 55°C
VPort 07-3M24M-T	2.4 mm	Microphone	12/24 VDC	-40 to 70°C
VPort P07-3L36M	3.6 mm	Line-in	PoE	-40 to 55°C
VPort P07-3L36M-T	3.6 mm	Line-in	PoE	-40 to 70°C
VPort P07-3M36M	3.6 mm	Microphone	PoE	-40 to 55°C
VPort P07-3M36M-T	3.6 mm	Microphone	PoE	-40 to 70°C
VPort 07-3L36M	3.6 mm	Line-in	12/24 VDC	-40 to 55°C
VPort 07-3L36M-T	3.6 mm	Line-in	12/24 VDC	-40 to 70°C
VPort 07-3M36M	3.6 mm	Microphone	12/24 VDC	-40 to 55°C

Model Name	Lens	Audio Interface	Power Input	Operating Temp.
VPort 07-3M36M-T	3.6 mm	Microphone	12/24 VDC	-40 to 70°C
VPort P07-3L42M	4.2 mm	Line-in	PoE	-40 to 55°C
VPort P07-3L42M-T	4.2 mm	Line-in	PoE	-40 to 70°C
VPort P07-3M42M	4.2 mm	Microphone	PoE	-40 to 55°C
VPort P07-3M42M-T	4.2 mm	Microphone	PoE	-40 to 70°C
VPort 07-3L42M	4.2 mm	Line-in	12/24 VDC	-40 to 55°C
VPort 07-3L42M-T	4.2 mm	Line-in	12/24 VDC	-40 to 70°C
VPort 07-3M42M	4.2 mm	Microphone	12/24 VDC	-40 to 55°C
VPort 07-3M42M-T	4.2 mm	Microphone	12/24 VDC	-40 to 70°C
VPort P07-3L60M	6.0 mm	Line-in	PoE	-40 to 55°C
VPort P07-3L60M-T	6.0 mm	Line-in	PoE	-40 to 70°C
VPort P07-3M60M	6.0 mm	Microphone	PoE	-40 to 55°C
VPort P07-3M60M-T	6.0 mm	Microphone	PoE	-40 to 70°C
VPort 07-3L60M	6.0 mm	Line-in	12/24 VDC	-40 to 55°C
VPort 07-3L60M-T	6.0 mm	Line-in	12/24 VDC	-40 to 70°C
VPort 07-3M60M	6.0 mm	Microphone	12/24 VDC	-40 to 55°C
VPort 07-3M60M-T	6.0 mm	Microphone	12/24 VDC	-40 to 70°C
VPort P07-3L80M	8.0 mm	Line-in	PoE	-40 to 55°C
VPort P07-3L80M-T	8.0 mm	Line-in	PoE	-40 to 70°C
VPort P07-3M80M	8.0 mm	Microphone	PoE	-40 to 55°C
VPort P07-3M80M-T	8.0 mm	Microphone	PoE	-40 to 70°C
VPort 07-3L80M	8.0 mm	Line-in	12/24 VDC	-40 to 55°C
VPort 07-3L80M-T	8.0 mm	Line-in	12/24 VDC	-40 to 70°C
VPort 07-3M80M	8.0 mm	Microphone	12/24 VDC	-40 to 55°C
VPort 07-3M80M-T	8.0 mm	Microphone	12/24 VDC	-40 to 70°C

© Moxa Inc. 版權所有.2025 年 1 月 18 日更新。

未經 Moxa Inc. 明確書面許可，不得以任何方式複製或使用本文件及其任何部分。產品規格如有變更，恕不另行通知。請至本公司官網了解最新的產品資訊。