VPort 25 Series

IP66, day-and-night vandal-proof fixed dome IP camera for outdoors

> -40 to 50°C operating temperature; heater or fan not required
> IP66-rated for protection from rain and dust
> Direct-wired power input and PoE for power redundancy
> Up to 30 frames/sec at 720 x 480 resolution
> One camera lens for both day and night use

CE FC

: Introduction

The VPort 25 is a vandal-proof, IP66-rated, fixed dome IP camera for use in harsh, outdoor environments. With maximum resolution of 520 TVL and day-and-night CCD camera lens, the VPort 25 is especially well-suited for high performance video surveillance applications. To meet the outdoor environment requirements, the VPort 25 is IP66-rated to protect it against dust and rain. In addition, the vandal-proof form factor design prevents damage from unexpected external forces, and the case-open sensor sends an alarm message when the VPort 25's outer case is opened.

Heater and fan not required, supports direct-wired power input and PoE for power redundancy

The VPort 25's no-heater/fan-less embedded system provides greater reliability for outdoor use. In addition, the camera comes with redundant power inputs: (1) direct power connection (12/24 VDC and 24 VAC) and (2) PoE (IEEE 802.3af) power input.

High performance video, with full motion MJPEG/MPEG4 video stream

The VPort 25 uses the ASIC compression chip, which provides video performance up to full D1 (720 x 480) @ 30 FPS. To meet a wider range of customer requirements, the VPort 25 supports dual-codecs, including the MJPEG and MPEG4 algorithms.

: Specifications

Camera
Sensor: 1/3" Sony Super HAD or 1/3" Sony ExView
Lens: Wide-end: F1.4, diagonal 115.4°, horizontal 90.3°
　　　　Tele-end: F2.4, diagonal 39.8°, horizontal 31.9°
　　　　Focal length: F= 3-9 mm
Modulation: NTSC or PAL
Camera Angle: Pan: ±180°; tilt: ±85°, rotation: ±170° (manual control)
Illumination: Color: 0.2 Lux at F1.2
　　　　　　　　Black and white: 0.03 Lux at F1.2
Synchronization: Internal
Gamma Correction: 0.45
White Balance: Auto tracking white balance
Electronic Shutter Speed: Auto: 1/60 (50) second to 1/100,000 second
S/N Ratio: More than 50 dB (AGC off)
AGC Control: On/Off
Flickerless Control: On/Off
Backlight Compensation: On/Off
Mirror: On/Off
Auto Exposure, Auto Iris: On: Auto exposure
　　　　　　　　　　　　　Off: Auto iris

Video
Video Compression: MJPEG or MPEG4 (ISO/IEC 14496-2)
Video Resolution:

	NTSC		PAL	
	Size	Max. FPS	Size	Max. FPS
QVGA	320 x 240	30	320 x 288	25
CIF	352 x 240	30	352 x 288	25
VGA	640 x 480	30	640 x 576	25
4CIF	704 x 480	30	704 x 576	25
Full D1	720 x 480	30	720 x 576	25

Video Viewing:
• Adjustable image size and quality
• Timestamp and text overlay
Video Output: Via Ethernet port or BNC connector (1.0 Vpp, 75 ohms)

Audio
Audio Input: 1 Line-in or MIC-in with 2-pin terminal block connector
Audio Output: 1 Line-out with 2-pin terminal block connector

Network

Protocols: TCP, UDP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DHCP, UPnP, RTP, RTSP, ICMP, IGMPv3, SNMPv1/v2c/v3, DDNS
Ethernet: 1 10/100BaseT(X) auto negotiating RJ45 port

GPIO

Digital Input: 1, max. 8 mA
　　　　　　　　"High": +13 to +30V
　　　　　　　　"Low": -30 to +3V
Relay Output: 1, max. 24 VDC @ 1A

LED Indicators

Network: 1 LED for 10 Mbps, 1 LED for 100 Mbps
Power: Power On/Off
STAT: Indicates if the system booted properly
DIP Switch: To turn the LED light On/Off

Power Requirements

Input Voltage: Redundant power inputs
- 12/24 VDC or 24 VAC with 2-pin terminal block connector
- Power-over-Ethernet (IEEE 802.3af)

Physical Characteristics

Casing: IP66-rated for rain and dust protection, vandal-proof supports
Dimensions (ø x H): 142 x 118.9 mm (5.60 x 4.68 in.)
Weight: 1100 g
Installation: Surface mounting, wall mounting

Environmental Limits

Operating Temperature: -40 to 50°C (-40 to 122°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

Regulatory Approvals

Safety: UL508 (Pending)
EMI: FCC Part 15, CISPR (EN55022) class A
EMS: EN61000-4-2 (ESD), level 2
　　　　EN61000-4-3 (RS), level 3
　　　　EN61000-4-4 (EFT), level 3
　　　　EN61000-4-5 (Surge), level 3
　　　　EN61000-4-6 (CS), level 3
　　　　EN61000-4-12 (Oscillatory wave immunity), level 3
Shock: IEC 60068-2-27
Freefall: IEC 60068-2-32
Vibration: IEC 60068-2-6

Warranty

1 year (see www.moxa.com/warranty for details)

Alarm Features

- Video motion detection with sensitivity tuning
- Video loss alarm
- Built-in case-open sensor alarm
- Daily repeat timing schedule
- JPEG snapshots for pre/trigger/post alarm images
- HTTP event servers for setting customized alarm actions

Security

- User level password protection
- IP address filtering

System Requirements

- Pentium 4, 2.4 GHz or above
- 512 MB memory or above
- Windows XP/2000 with SP2 or above
- Internet Explorer 6.x or above
- DirectX 9.0c or above

Software Bundled Free

SoftDVR™ Lite: 1- to 4-ch IP surveillance software for viewing and recording
VPort SDK PLUS: Includes CGI commands and ActiveX Control for customized application or system integration for third-party developer (Please go to Moxa's website to download the latest SDK version.)

Dimensions (unit = mm)

Side View　　　　Front View　　　　Rear View

⋮ Ordering Information

Product Model	Camera Sensor		Modulation	
	SuperHAD	Exview	NTSC	PAL
VPort 25-CAM3S52N	√		√	
VPort 25-CAM3S52P	√			√
VPort 25-CAM3E52N		√	√	
VPort 25-CAM3E52P		√		√

Video Networking Products VPort 25

IP Camera Mounting Accessories

Mounting Kit

For mounting dome camera onto gooseneck/straight tube

VP-MK
Height: 74 mm (2.91 in.)
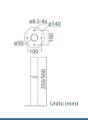**Diameter:** 140 mm (5.51 in.)
Weight: 500 g (1.1 lbs)

Straight Tube

VP-ST1/VP-ST2
Height: 500 mm (19.69 in.)/250 mm (9.84 in.)
Diameter: 50 mm (1.97 in.)
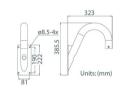**Weight:** 1000 g (2.2 lbs)/1800 g (4 lbs)

Gooseneck Tube

VP-GT
Dimensions: 323 x 385 mm (11.73 x 15.16 in.)
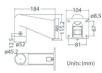**Diameter:** 92 x 42 mm (3.62 x 1.65 in.)
Weight: 2100 g (4.6 lbs)

Mini Pendant

VP-MP
Dimensions: 184 x 104 x 115.2 mm
(7.24 x 4.09 x 4.54 in.)
Diameter: 44.5 mm (1.75 in.)
Weight: 600 g (1.3 lbs)

Wall Box Mounting

For mounting gooseneck/mini pendants on the wall

VP-WBM
Dimensions: 270 x 166 x 95 mm
(10.63 x 6.54 x 3.74 in.)
Weight: 2200 g (4.8 lbs)

Standard Corner Mounting Plate

For mounting gooseneck/mini pendants in the corner

VP-CST
Dimensions: 222 x 204 x 117 mm
(8.74 x 8.03 x 4.61 in.)
Weight: 2000 g (4.4 lbs)

Mini Corner Plate

For mounting gooseneck/mini pendants in the corner

VP-CSTM
Dimensions: 270 x 166 x 95 mm
(10.63 x 6.54 x 3.74 in.)
Weight: 800 g (1.8 lbs)

Outdoor Thin Pole Direct Mounting

For mounting gooseneck/mini pendants on a pole
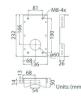
VP-PTD
Dimensions: 232 x 136 x 50 mm
(9.13 x 5.35 x 1.97 in.)
Recommend Pole Diameter: 112~140 mm
(4.4~5.5 in.)
Weight: 700 g (1.6 lbs)

Outdoor Wide Pole Direct Mounting

For mounting gooseneck/mini pendants on a pole
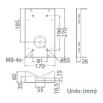
VP-PWD
Dimensions: 270 x 170 x 60 mm
(10.63 x 6.69 x 2.36 in.)
Recommend Pole Diameter: 112~130 mm
(4.4~5 in.)
Weight: 1000 g (2.2 lbs)

Stainless Steel Straps

For direct pole mounting or pole box on a pole

VP-SS1
Length: 700 mm (27.56 in.)
Width: 16 mm (0.63 in.)
Weight: 20 g (0.04 lbs)