

# 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



## 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= 3.7-12 mm

**Modulation:** NTSC or PAL

**Camera Angle:** Pan: ±180°; tilt: ±85°, rotation: ±170° (camera angles controlled manually)

**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:** 1/60 (50) second to 1/100,000 second, automatic

**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

**Horizontal Resolution:** 420/520 TVL

**Effective Pixels:**

NTSC: 510 x 492 (middle resolution), 768 x 494 (high resolution)

PAL: 500 x 582 (middle resolution), 752 x 582 (high resolution)

**Video**

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

**Video Resolution:**

	NTSC		PAL	
	Size	Max. FPS	Size	Max. FPS
<b>QVGA</b>	320 x 240	30	320 x 288	25
<b>CIF</b>	352 x 240	30	352 x 288	25
<b>VGA</b>	640 x 480	30	640 x 576	25
<b>4CIF</b>	704 x 480	30	704 x 576	25
<b>Full D1</b>	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, QoS, SNMPv1/v2c/v3, DDNS  
**Ethernet:** 1 10/100BaseT(X) auto negotiating RJ45 port

### GPIO

**Digital Inputs:** 1, max. 8 mA  
 • High: +13 to +30V  
 • Low: -30 to +3V

**Relay Output:** 1, max. 24 VDC @ 1A

### LED Indicators

**STAT:** Indicates if the system booted properly  
**Network:** 1 LED for 10 Mbps, 1 LED for 100 Mbps  
**System:** Power On/Off

**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

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

### Alarms

**Video Motion Detection:** Includes sensitivity tuning  
**Video Loss:** Video loss alarm  
**Case-open Sensor:** Built in case-open sensor alarm  
**Scheduling:** Daily repeat timing schedule  
**Imaging:** JPEG snapshots for pre/trigger/post alarm images  
**Custom Alarms:** HTTP event servers for setting customized alarm actions

### Security

**Password:** User level password protection  
**Filtering:** By IP address

### 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

**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

**EMI:** FCC Part 15, CISPR (EN55022) class A

**Shock:** IEC 60068-2-27

**Freefall:** IEC 60068-2-32

**Vibration:** IEC 60068-2-6

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

### Warranty

**Warranty Period:** 1 year  
**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

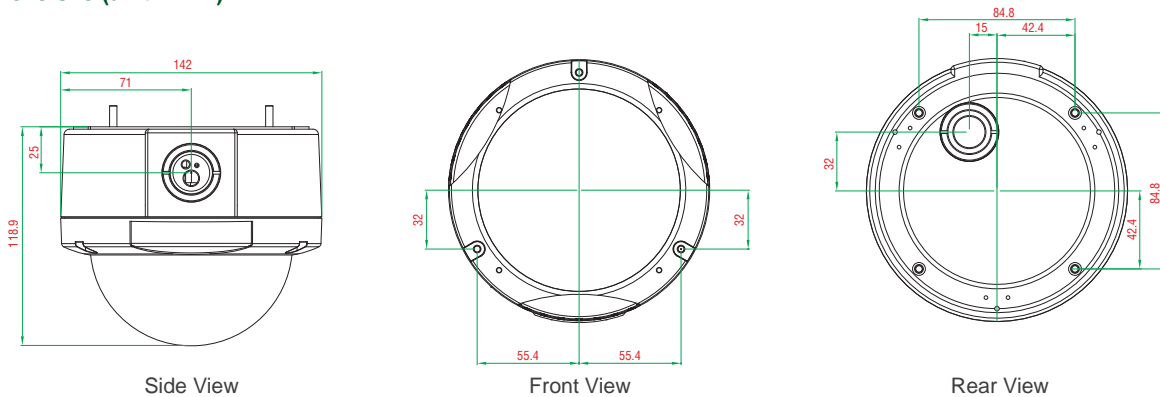
### System Requirements

**CPU:** Pentium 4, 2.4 GHz or above  
**Memory:** 512 MB memory or above  
**OS:** Windows XP/2000 with SP2 or above  
**Browser:** Internet Explorer 6.x or above  
**Multimedia:** 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, 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).

### Dimensions (unit = mm)



## Ordering Information

Available Models	Camera Sensor		Modulation	
	SuperHAD	Exview	NTSC	PAL
VPort 25-CAM3S52N	√	---	√	---
VPort 25-CAM3S52P	√	---	---	√
VPort 25-CAM3E52N	---	√	√	---
VPort 25-CAM3E52P	---	√	---	√

**: IP Camera Mounting Accessories**

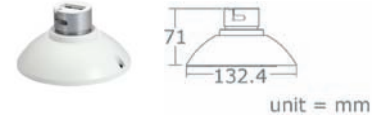


**Mounting Kit**

For mounting dome camera onto straight tube, gooseneck tube, or mini pendant

**VP-MK**

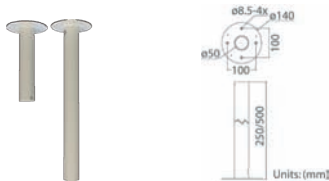
**Height:** 71 mm (2.8 in)  
**Diameter:** 132.4 mm (5.21 in)  
**Weight:** 300 g (0.7 lbs)



**Straight Tube**

**VP-ST1 or VP-ST2**

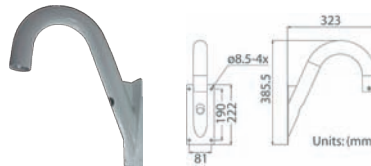
**Height:** 250 mm (9.84 in) or 500 mm (19.69 in)  
**Diameter:** 50 mm (1.97 in)  
**Weight:** 1000 g (2.2 lbs)/1800 g (4 lbs)



**Gooseneck Tube**

**VP-GT**

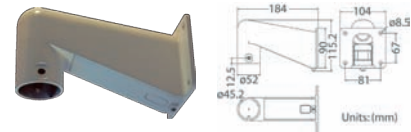
**Dimensions:** 323 x 385 mm (11.73 x 15.16 in)  
**Diameter:** 92 x 42 mm (3.62 x 1.65 in)  
**Weight:** 2100 g (4.6 lbs)



**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)

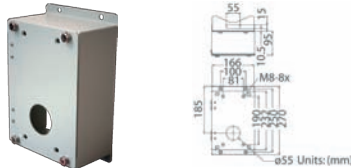


**Wall Box Mounting**

For mounting gooseneck and mini pendants on a 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)

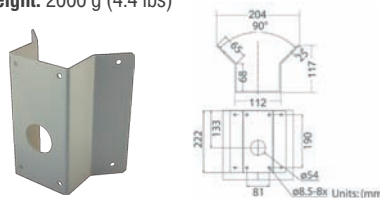


**Standard Corner Mounting Plate**

For mounting gooseneck and mini pendants in a 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)

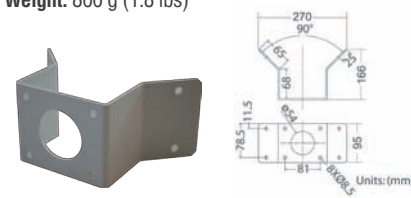


**Mini Corner Plate**

For mounting gooseneck and mini pendants in a 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)

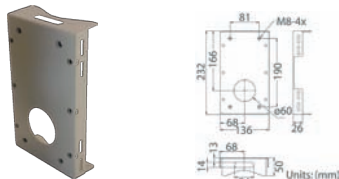


**Outdoor Thin Pole Direct Mounting**

For mounting gooseneck and mini pendants on a pole

**VP-PTD**

**Dimensions:** 232 x 136 x 50 mm (9.13 x 5.35 x 1.97 in)  
**Recommended Pole Diameter:** 112 to 140 mm (4.4 to 5.5 in)  
**Weight:** 700 g (1.6 lbs)

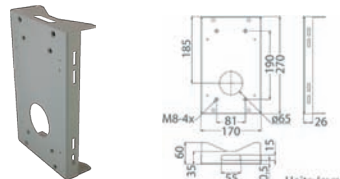


**Outdoor Wide Pole Direct Mounting**

For mounting gooseneck and mini pendants on a pole

**VP-PWD**

**Dimensions:** 270 x 170 x 60 mm (10.63 x 6.69 x 2.36 in)  
**Recommended Pole Diameter:** 112 to 130 mm (4.4 to 5 in)  
**Weight:** 1000 g (2.2 lbs)



**Stainless Steel Straps**

For direct pole mounting or mounting a 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)  
**Note:** Four straps are shipped with each order

