

# VPort 26 Series

**IP66 day-and-night vandal-proof fixed dome IP cameras for outdoors**



- > -40 to 50°C operating temperature; no heater or fan required
- > Maximum 800 x 600 (SVGA) resolution at 30 FPS
- > High quality video image with 3D-DNR, BLC, and WDR
- > Built-in de-mist function for sharp images in rain, fog, and hazy environments
- > 2.8 to 11 mm day-and-night vari-focal lens with a built-in removeable IR-cut filter (ICR)
- > Up to 0.01 lux illumination performance for color images
- > Camera tamper alarm for redirection, blocking, defocusing, and spray painting (Pending)
- > DynaStream™ supported for optimized network efficiency
- > ONVIF conformity for standardization and interoperability
- > 802.1X, HTTPS, and SSH supported for advanced network security



## Introduction

The VPort 26 series is a vandal-proof, IP66-rated, fixed dome IP camera designed for outdoor use. With SVGA (max. 800 x 600) resolution, H.264/MJPEG 3 simultaneous video streams, and day-and-night camera lens, the VPort 26 series is well-suited for outdoor video surveillance applications.

### Good Video Quality

To enhance video image quality, the VPort 26 series is equipped with a 2.8 to 11 mm vari-focal lens that meets any viewing angle and distance requirements. With the built-in removeable IR-cut filter, and automatic switching from color to B/W images, the VPort 26 series is suitable for day-and-night use. Along with 3D-DNR (3D Digital Noise Reduction) function, which can greatly reduce noises of video frames, and WDR (Wide Dynamic Range), the VPort 26 series provides clear images under back light circumstances. The optional De-mist function also ensures a good image quality in rainy, snowy, or hazy environments.

## Specifications

### Camera

**Sensor:** 1/3" SVGA progressive scan CMOS

**Lens:**

- Focal length= 2.8 to 11 mm
- Wide-end: F=1.4, Diagonal 125.2°, horizontal 97.1°, vertical 71.1°
- Tele-end: F=2.8, diagonal 31.6°, horizontal 25.3°, vertical 19.0°

**Auto Iris Type:** DC drive

**Camera Angle:**

Pan: ±175°; Tilt: 0 to 85°; Rotation: ±180°

**Minimum illumination (low light sensitivity):** 0.01 lux, F=1.2

**Synchronization:** Internal

**Gamma Correction:** 0.45

### Rugged Hardware Design

The VPort 26 series is specially designed for outdoor applications with the following features: IP66 rain and dust protection, high EMI/surge protection, -40 to 50°C operating temperature without a fan or heater required, metal housing, and vandal-proof dome cover. In addition, the camera is built in a dehumidified membrane for spreading out the moisture inside the camera. Users can choose either the model with PoE (Power over Ethernet, 802.3af) function, or the wired power input model with 12/24 VDC or 24 VAC.

### High Video Performance and Network Security

The VPort 26 series is designed to provide both H.264 and MJPEG video streams and transmit up to 3 independent video streams (2 in H.264, and 1 in MJPEG) simultaneously. The camera is able to encode and transmit up to 30 FPS for each of the H.264 and MJPEG streams. Advanced network security functions, such as 802.1x and SSH, are also provided to prevent unauthorized access or data hijack, which is critical for most surveillance applications.

**White Balance:** ATW/AWB (range: 3200 to 10000°K)

**S/N Ratio:** 52dB (TYP) (Gamma, Aperture, AGC Off; 3D-DNR On)

**ICR Control:** Auto

**DNR:** Built-in 3D-DNR (3D digital noise reduction)

**WDR:** 94 dB, Level 1 to Level 9

**De-mist:** Off, low, medium, high

**AGC Control:** Level 1 to Level 9

**Backlight Compensation:** On/off with selectable areas

**Digital Zoom:** 4X

**Auto Light Control:** Level 1 to Level 8

**Image Rotation:** Flip, Mirror, and 180° rotation

**Image Setting:** Manual tuning with saturation and sharpness

## Video

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

**Video Outputs:** Via Ethernet

**Video Streams:** Maximum of 3 video streams (2 x H.264, 1 x MJPEG)

**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

### Video Viewing:

- DynaStream™ supported for changing the video frame rate automatically
- 8 privacy mask areas provided
- Adjustable image size and quality
- Timestamp and text overlay
- Maximum of 10 simultaneous unicast connections

**PTZ:** Digital PTZ with 4X zoom

**Audio Inputs:** 1 line-in or mic-in with 2-pin terminal block connector

**Audio Outputs:** 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, Modbus/TCP, 802.1X, SSH, HTTPS

**Ethernet:** 1 10/100BaseT(X) Ethernet port, RJ45 connector

### GPIO

**Digital Input:** 1, max. 8 mA

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

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

### LED Indicators

**STAT:** Indicates if the system is booted properly or not

**Network:** 10 Mbps or 100 Mbps

**Power:** Power on/off

**DIP Switch:** To turn the LED light on/off

### Local Storage

**SD Socket:** Standard SD socket (SDHC)

### Power Requirements

**Power Input:**

- VPort 26: 1, 12/24 VDC or 24 VAC
- VPort P26: Power-over-Ethernet (IEEE 802.3af)

**Power Consumption:** Max. 11.7 W

### Physical Characteristics

**Housing:** Metal, IP66 rated for rain and dust protection

**Dimensions:** 149 mm (diameter) x 120 mm (height)

**Installation:** Surface mounting, or outdoor mounting with accessories

## Security

**Password:** User level password protection

**Filtering:** By IP address

**Authentication:** 802.1X

**Encryption:** HTTPS, SSH

## Alarms

**Intelligent Video:** Camera tamper (Pending)

**Video Motion Detection:** Includes sensitivity settings

**Video Loss:** Video loss alarm

**Scheduling:** Daily repeat timing schedule

**Imaging:** JPEG snapshots for pre/trigger/post alarm images

**Email/FTP Messaging:** Automatic transfer of stored images via email or FTP as event-triggered actions

**Custom Alarms:** HTTP event servers and CGI events for setting customized alarm actions

**Pre-alarm Buffer:** 24 MB video buffer for JPEG snapshot images

## 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)

## Standards and Certifications

**Safety:** UL 60950-1

**EMI:** FCC Part 15, CISPR (EN 55022) class A

**EMS:**

- EN 61000-4-2 (ESD), Level 3,
- EN 61000-4-3 (RS), Level 3,
- EN 61000-4-4 (EFT), Level 3,
- EN 61000-4-5 (Surge), Level 3,
- EN 61000-4-6 (CS), Level 3,
- EN 61000-4-8,
- EN 61000-4-11

**Shock:** IEC60068-2-27

**Freefall:** IEC60068-2-32

**Vibration:** IEC60068-2-6

**Vandal Resistance:** EN 62262, IK10 level

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

## Warranty

**Warranty Period:** 3 years

**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

## Minimum Viewing System Requirements

**CPU:** Pentium 4, 2.4 GHz

**Memory:** 512 MB of memory

**OS:** Windows XP/2000 with SP4 or above

**Browser:** Internet Explorer 6.x or above

**Multimedia:** DirectX 9.0c or above

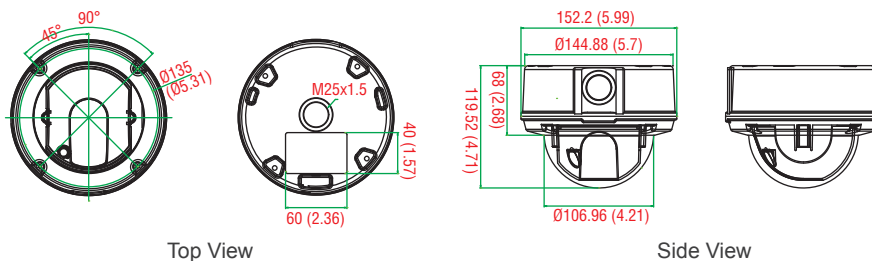
## Software Development Kit

**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

## Dimensions

Unit: mm (inch)



## Ordering Information

### Available Models

**VPort 26:** Outdoor H.264/MJPEG fixed dome IP camera, 12/24 VDC or 24 VAC power input, -40 to 50°C operating temperature

**VPort P26:** Outdoor H.264/MJPEG fixed dome IP camera, Power-over-Ethernet, -40 to 50°C operating temperature

### Optional Accessories (can be purchased separately)

**SoftNVR-IA V3.0:** 64-channel IP surveillance software for industrial automation applications

**DR-4524/75-24/120-24:** 45/75/120 W DIN-Rail 24 VDC power supplies

**MDR-40-24/60-24:** 40/60 W DIN-Rail 24 VDC power supplies, -20 to 70°C operating temperature

**VP-MK2:** Mounting kit for the VPort 26 series




**VP-520L:** Wall mounting kit for mounting the VPort 26 on wall

**VP-520HB:** Pendant mounting kit for mounting the VPort 26 on ceiling

**VP-CPM:** Pole/corner mounting kit for mounting the VPort 26 on a pole or corner with the VP-520L

### Package Checklist

- VPort 26 or VPort P26 IP camera
- Panel mount kit
- 4 self-tapping screws and anchors
- IP66 cable glands
- L-type Torx screw driver
- Quick installation guide (printed)
- Documentation and software CD
- Warranty card

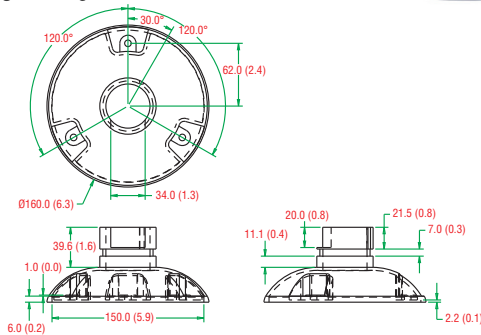
Wall Mount	Pendant Mount	Pole Mount
VPort 26 + VP-MK2 + VP-520L	VPort 26 + VP-MK2 + VP-520HB	VP-CPM
		

### Mounting Kit

For mounting VPort 26 onto straight tube as a pendant

#### VP-MK2

**Height:** 69 mm (2.7 in)  
**Diameter:** 160 mm (6.3 in)  
**Weight:** 470 g

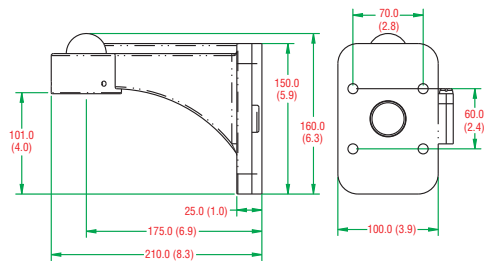


### Wall Mounting Kit

For mounting VPort 26 on wall

#### VP-520L

**Height:** 160 mm (6.3 in)  
**Width:** 100 mm (3.9 in)  
**Depth:** 210 mm (8.3 in)  
**Weight:** 840 g

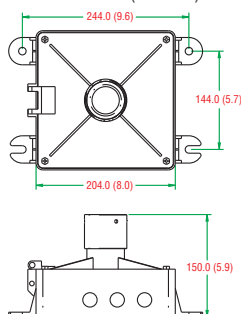


### Pendant Mounting Kit

For mounting VPort 26 on ceiling

#### VP-520HB

**Height:** 150 mm (5.9 in)  
**Width:** 204 mm (8 in)  
**Depth:** 244 mm (9.6 in)  
**Weight:** 2.7 kg  
**Straight tube:** 300 mm (11.8 in)



### Pole/Corner Mounting Kit

For mounting VPort 26 on a pole or corner with VP-520L

#### VP-CPM

**Height:** 126 mm (5 in)  
**Width:** 156.6 mm (6.1 in)  
**Depth:** 86.8 mm (6.2 in)  
**Weight:** 440 g  
**Stainless Strap:** 2

