

# VPort 26A-1MP Series

**HD, IP66, vandal-proof, day and night, fixed dome IP cameras**



- > -40 to 50°C or -40 to 75°C (T model) operating temperature, without heater or fan
- > 1/2.7" progressive scan camera with maximum 1280 x 800 resolution at up to 30 frames/second
- > DNR and WDR for superb image quality
- > Triple video streams with H.264 and MJPEG
- > 3 to 9 mm day-and-night vari-focal lens with a built-in ICR (removable IR-cut filter ICR)
- > DynaStream™ support for maximum network efficiency
- > CBR Pro™ support for high image quality in limited bandwidth transmissions
- > ONVIF support for standardization and interoperability



## Introduction

The VPort 26A-1MP is an IK10, IP66-rated, fixed dome HD IP camera for harsh, outdoor environments. With a maximum resolution of 1280

x 800, H.264/MJPEG triple video streams, and day-and-night camera lens, the VPort 26A-1MP is especially well-suited for outdoor video surveillance applications.

## Specifications

### Camera

**Sensor:** 1/2.7" HD progressive scan CMOS

**Lens:** 3X (controlled manually), f=3 mm (wide) to 9 mm (tele), F1.2 to F2.3

- Horizontal angle of view: 112° to 35°
- Vertical angle of view: 58° to 20°
- Diagonal: 115° to 40°

**Camera Angle (controlled manually):**

- Pan: ±175°, Tilt: 0 to 85°
- Rotation: Pan: ±180°

**Minimum Illumination:**

- Color: 0.2 lux at F1.2
- B/W: 0.05 lux at F1.2

**Day & Night:** Auto/Color/BW; ICR control

**Synchronization:** Internal

**White Balance:** ATW/AWB

**Electronic Shutter:** Fixed (1/30 to 1/25000 sec)

**S/N Ratio:** 50 dB (AGC OFF, DNR ON)

**ICR Control:** Auto (light sensor control) or DI control

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

**WDR:** Levels 1-8

- color: 100 dB
- B/W: 110 dB

**AGC (auto gain control):** 2X, 4X, 8X, 16X, 32X, 64X

**IRIS:** Auto, DC drive

**Auto Exposure:** Level ±5

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

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

**Black Level Control:** High, Medium, Low

### Video

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

**Video Output:** via Ethernet

**Video Streams:** 3, H.264, or MJPEG independent video streams

### Video Viewing:

- DynaStream™ support for changing the video frame rate automatically
- 3 privacy mask areas provided
- Adjustable image size and quality
- Timestamp and text overlay
- Maximum of 5 simultaneous unicast connections, 50 multicast clients
- ROI (Region of Interest) configuration for up to 3 areas

### Video Resolution and fps (frames per second):

|         | NTSC       |          | PAL        |          |
|---------|------------|----------|------------|----------|
|         | Size       | Max. FPS | Size       | Max. FPS |
| QCIF    | 176 x 112  | 30       | 176 x 144  | 25       |
| QVGA    | 320 x 240  | 30       | 320 x 240  | 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       |

Multiple streams may not support up to 30 FPS.

### Audio

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

**Audio Outputs:** 1 line-out with 2-pin terminal block connector

**Audio Format:** Mono, PCM (G.711)

### Network

**Protocols:** TCP, UDP, HTTP, SMTP, FTP, 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

### Local Storage

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

### GPIO

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

- High: +13 V to +30 V

- Low: -30 V to +3 V

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

## 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

## Power Requirements

**Input Voltage:**

• VPort 26A-1MP: 12 to 24 VDC or 24 VAC

• VPort P26A-1MP: PoE, IEEE 802.3af

**Input Current:**

• VPort 26A-1MP: 12 to 24 VDC, 500 mA or 24 VAC, 5.5 W

• VPort P26A-1MP: 48 VDC, 180 mA

**Power Consumption:**

• VPort 26A-1MP: 5.5 W

• VPort P26A-1MP: 5.8 W

## Physical Characteristics

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

**Vandal Resistance:** EN 62262, IK10

**Dimensions:**

Diameter: 149 mm (5.86 in)

Height: 120 mm (4.72 in)

**Weight:** 1.39 kg (3.06 lb)

**Installation:** Surface mounting (standard), outdoor mounting with optional accessories

## Alarms

**Intelligent Video:** Tamper alarm

**Video Motion Detection:** Includes sensitivity settings

**Scheduling:** Daily repeat timing schedule

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

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

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

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

## Security

**Password:** User level password protection

**Filtering:** By IP address

**Authentication:** 802.1X

**Encryption:** HTTPS, SSH

## Environmental Limits

**Operating Temperature:**

Standard models: -40 to 50°C (-40 to 122°F)

Wide temp. models: -40 to 75°C (-40 to 167°F)

**Storage Temperature:** -40 to 85°C (-40 to 185°F)

**Ambient Relative Humidity:** 5 to 95% (non-condensing)

**Vibration:**

IEC 60068-2-6, 2 to 13.2 Hz: 2 mm (peak-peak); 13.2 to 100 Hz: 0.7g;

1.50 hrs/axis

IEC 60068-2-6, 3 to 9 Hz: 7 mm (peak-peak); 9 to 150 Hz: 1.0g;

1.86 hrs/axis

**Shock:** IEC 60068-2-27, 20g/11ms

**Altitude:** Up to 2000 m

**Note:** Please contact Moxa if you require products guaranteed to function properly at higher altitudes.

## Standards and Certifications

**Safety:** UL 60950-1

**Rail Traffic:** EN50121-4: 2006 (VPort 26A-1MP series)

**EMI:** CISPR 22, 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

**MTBF (mean time between failures)**

**Time:** 201,721 hrs

**Standard:** Telcordia SR332

## Warranty

**Warranty Period:** 5 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, Windows Vista, Windows 7

**Browser:** Internet Explorer 9.x or above

**Multimedia:** DirectX 9.0c or above

**Note:** These preliminary specifications are subject to change without notice.

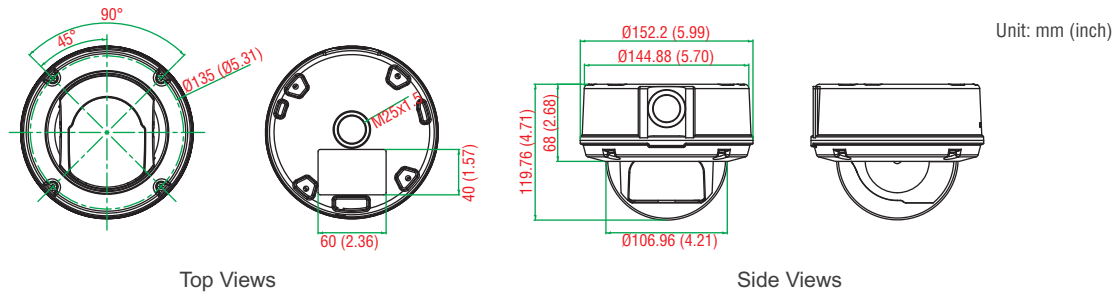
Please check our website or with a sales representative for the most up-to-date specifications.

## Software Development

**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 the SDK is available for download from Moxa's website).

**Standard:** ONVIF Profile S

## Dimensions



## Ordering Information

| Standard Temp. Models<br>(RJ45: -40 to 50°C;<br>M12: -25 to 55°C) | Wide Temp. Models<br>(-40 to 75°C) | 12/24 VDC,<br>24 VAC<br>Power supply | PoE (802.3af)<br>Power supply |
|---|------------------------------------|--------------------------------------|-------------------------------|
| VPort 26A-1MP   | VPort 26A-1MP-T                    | ✓                                    | —                             |
| VPort P26A-1MP  | VPort P26A-1MP-T                   | —                                    | ✓                             |

## Optional Accessories (can be purchased separately)

**VP-MK2:** Wall-mounting or pendant-mounting kit for the VPort 26 series

**VP-520L:** Wall-mounting kit (for fixed dome), 210(D) x 160(H) x 100(W) mm

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

**VP-CPM:** Pole/corner-mounting kit for the VP-520L, 56.6(D) x 156.6(W) x 126(H) mm

**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

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

## Package Checklist

- VPort 26A-1MP or VPort P26A-1MP IP camera
- Mounting sticker
- 4 self-tapping screws and anchors
- IP66 cable glands
- L-type Torx screwdriver
- Quick installation guide (printed)
- Documentation and software CD
- Warranty card