# **VPort 66-2MP Series**

# -1080P PTZ dome IP camera for outdoors



- > -40 to 65°C operating temperature
- > Maximum 1920x1080 resolution at 60 FPS (single stream)
- > Supports 360° endless PAN and -6° to +96° TILT
- > 22X/30X optical zoom, and 20X digital zoom
- > DNR, BLC, and image stabilizer for superb image quality
- > Built-in 4.3 to 94.6 mm (22X) or 4.3 to 129 mm (30X) focal length lens with ICR (IR-cut filter removable)
- > Triple video streams with H.264 and MJPEG
- > IP66 rain and dust protection and NEMA Type 4X form factor
- > NEMA TS2 compliance and NTCIP 1205 support for ITS system
- > Calibrate PTZ movement manually or by schedule
- > Smart PTZ tracking (Pending)



# Introduction

The VPort 66-2MP is an IK10, IP66-rated, PTZ speed dome IP camera for use in harsh, outdoor environments. With a 360° endless PAN, -6 to 96° TILT, 22X/30X optical zoom, 20X digital zoom, H.264/ MJPEG triple video streams, and day-and-night camera lens, the VPort 66-2MP is especially well-suited for outdoor video surveillance applications. In addition, the VPort 66-2MP supports NTCIP 1205, which is an ITS (intelligent transportation system) communication protocol standard. NTCIP support allows the user to control PTZ operation directly via the NTCIP-compliant control panel.

# **Specifications**

#### Camera

Sensor: 1/2.8" HD progressive scan CMOS Lens: 22X: f=4.3 mm (wide) to 94.6 mm (tele), F1.6 to F4.5 Horizontal angle of view: 65.1° to 3.1° Vertical angle of view: 38.4° to 1.8° 30X: f=4.3 mm (wide) to 129.0 mm (tele), F1.6 to F4.7 Horizontal angle of view: 65.1° to 2.3° Vertical angle of view: 38.4° to 1.4° Minimum Illumination: • Color: 0.4 lux, at F1.6 (Gain High, 50 IRE, 1/30 sec) • B/W: 0.03 lux, at F1.6 (Gain High, 50 IRE, 1/30 sec) Minimum Working Distance: 10 cm (wide), 120 cm (tele) Day & Night: Auto/Color/BW; ICR control Synchronization: Internal White Balance: ATW/AWB Electronic Shutter: Auto, Fixed (1/100 to 1/16000 sec) S/N Ratio: Over 50 dB (AGC OFF; DNR on) ICR Control: Auto DNR: Built-in 2D/3D DNR (digital noise reduction) Auto Focus: Continuous, one-shot WDR: 50 db AGC (auto gain control): Off, Level 1 to 7 BLC (back light compensation): Off, Level 1 to 15 Sense Up: On/Off. maximum 128X IRIS: Auto/Manual IRIS control, Electronic IRIS Electronic Image Stabilizer: Low, Medium, High

Flickerless Control: On/Off Image Rotation: Flip, Mirror, and 180° rotation Image Setting: Manual tuning with sharpness

#### Video

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

Video Streams: 3 independent H.264 or MJPEG video streams Video Resolution and FPS (frames per second):

	NTSC		PAL	
	Size	Max. FPS	Size	Max. FPS
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
WXGA	1280 x 800	30	1280 x 800	25
SXGA	1280 x 1024	30	1280 x 1024	25
Full HD	1920 x 1080	30	1920 x 1080	25

Note: Single video stream supports up to 60 FPS.

#### Video Viewing:

• DynaStream™ support for changing the video frame rate automatically

- Adjustable image size and quality
- Timestamp and text overlay
- Maximum of 5 simultaneous unicast connections, 50 multicast clients
- CBR Pro<sup>™</sup> support for accurate streaming bit rate control

#### 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); AAC

#### **Network**

Protocols: IPv4/v6,TCP, NTCIP 1205, UDP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DHCP, TFTP, UPnP, RTP, RTSP, ICMP, IGMPv3, ARP, QoS, SNMPv1/v2c/v3, DDNS, Modbus/TCP, 802.1X, SSH/HTTPS, OPT66/67 Ethernet: 1 10/100BaseT(X) Ethernet port, RJ45 connector

#### **Local Storage**

SD Socket: Standard SD socket (SDHC)

#### **GPIO**

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

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

#### **Power Requirements**

Input Voltage: 24 VDC, 24 VAC Input Current: 2.925 A @ 24 VDC; 4.94 A @ 24 VAC Power Consumption:

- 27 watts when heater and fan are off
- . 31 watts when fan is on and heater is off
- 71 watts when fan and heater are on

#### Physical Characteristics Housing:

- IP66-rated rain and dust protection connector
- EN 62262 IK10 vandal-resistant support
- NEMA Type 4X
- · Metal housing, PC dome cover

Weight: 5.15 kg (11.33 lb)

Installation: Outdoor mounting with optional accessories

### Alarms

Video Motion Detection: Includes sensitivity tuning

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 with event-triggered actions

Pre-alarm Buffer: 35 MB for JPEG snapshot images

#### PTZ (Pan/Tilt/Zoom)

Pan Range: 360° endless, manual control speed from 0.15°/s to 120°/s

Tilt Range:  $-6^{\circ}$  to  $+96^{\circ}$ , manual control speed from 0.15°/s to 120°/s TILT Capability:  $6^{\circ}$  above the horizon

Optical Zoom: 22X, 30X

Digital Zoom: 20X

Preset Positions: 128 presets

• Preset moving speed: from 1°/s to 255°/s

Alarm trigger moving speed: 360°/s

Functionality: Supports guard tours

#### **Security**

Password: User level password protection Filtering: By IP address Authentication: 802.1X Encryption: HTTPS, SSH

# **Environmental Limits**

Operating Temperature: -40 to 65°C (-40 to 149°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\*. 20a/11ms Altitude: 2000 m Ingress Protection: IEC 60529, IP66 Salt Sprav Test: ASTM-B117 This unit can pass the test criteria without being damaged, but if the camera is repositioned, pan/tilt calibration needs to be redone. Standards and Certifications Safety: UL 60950-1 Rail Traffic: EN 50121-4 EMC: EN 55022/24

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: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 4 kV; Signal: 4 kV IEC 61000-4-6 CS: Signal: 10 V IEC 61000-4-8 IEC 61000-4-11

Transportation: NEMA TS2 compliant MTBF (mean time between failures)

Time: 525,491 hrs Standard: Telcordia SR332

#### Warranty

**Warranty Period:** 3 years (limited warranty on moving parts; see Moxa's online warranty policy for details)

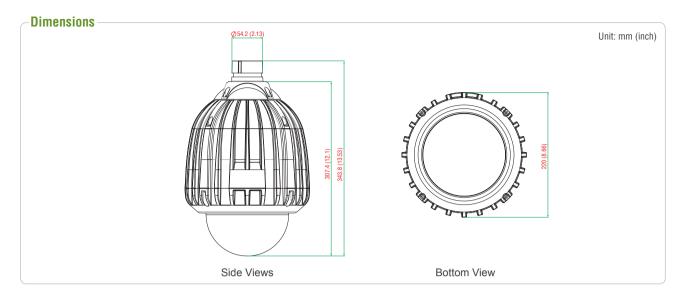
Details: See www.moxa.com/warranty

#### **Minimum Viewing System Requirements**

CPU: Intel Core i3 or above Memory: 2 GB of memory OS: Windows 7 Browser: Internet Explorer 10 or above Multimedia: DirectX 11.0 or above

#### Software Development

VPort SDK PLUS: Includes CGI commands, ActiveX Control, and API library for customized applications or system integration for third-party developers (latest version available on Moxa website). Standard: ONVIF, Profile S



# **Crdering** Information

#### **Available Models**

VPort 66-2MP-CAM22X: 1080P PTZ dome IP camera, 22X optical zoom, RJ45 Ethernet port, 24 VAC/ VDC, -40 to 65°C

VPort 66-2MP-CAM30X: 1080P PTZ dome IP camera, 30X optical zoom, RJ45 Ethernet port, 24 VAC/ VDC, -40 to 65°C

**Optional Accessories** (can be purchased separately)

VP-520LB: Wall-mounting kit, 204(W) x 284(H) x 255(D) mm VP-520HB: Pendant-mounting kit, 284(L) x 204(W) x 149.5(H) mm

**VP-510CPM**: Pole-mounting kit for the VP-520LB, 275(W) x 91(H) x 182(D) mm

**VP-SH1:** Sunshield for the VPort 66-2MP,  $236(\emptyset) \times 180(H)$  mm

SoftNVR-IA: 64-channel IP surveillance software for industrial automation applications DR-75-24/120-24: 75/120 W DIN rail 24 VDC power supplies

MDR-60-24: 60 W DIN rail 24 VDC power supplies, -20 to 70°C operating temperature

## Package Checklist

- VPort 66-2MP series IP camera
- 3.5 mm jack to 2-pin terminal block connector
- L-type Torx screwdriver
- Dry pack and hook fastner
- Quick installation guide (printed)
- Documentation and software CD
- Warranty card



Tels.: (55) 5740 4630 / (55) 5740 2142 www.telsa.com.mx • ventas@telsa.com.mx Oriente 65-A No. 2848, Col. Asturias, Del. Cuauhtémoc, CDMX, México