

▶ Award-winning Product



VPort 56-2MP Series

Rugged full HD day-and-night H.264 zoom IP cameras



- > -40 to 75°C operating temperature (fan not required)
- > 1/2.5" progressive scan CMOS camera with maximum full HD (1920 x 1080) resolution
- > 10x optical zoom and 16x digital zoom; up to 160x zoom ratio
- > High quality video image with 3DNR, BLC, and Image Stabilizer
- > Maximum 3 independent video streams, 2 x H.264 and 1 x MJPEG
- > Optional model with built-in single mode fiber
- > Two-way and full duplex audio input/output
- > DynaStream™ and CBR Pro™ supported for maximum network efficiency
- > SD card interface for disconnection and event recording



Introduction

The VPort 56-2MP series includes the world's first rugged IP zoom cameras that can survive in extreme temperatures ranging from -40 to 75°C (T models), without a built-in or external fan. Also available are models with operating temperature range of 0 to 60°C. The VPort 56-2MP cameras are industrial-grade Full HD resolution (1920 x 1080) H.264 IP box cameras designed for mission critical environments.

With advanced optical technology featuring 10x optical and 16x digital zoom, the cameras greatly improve the efficiency of your surveillance work and ensure the best video quality. With complete optional housing and PT scanner accessories available, the VPort 56-2MP series is suitable for virtually any kind of indoor or outdoor installation.

Specifications

Camera

- Sensor:** 1/2.5" HD progressive scan CMOS
- Lens:** 6.3 to 63 mm auto focus zoom lens
- Angle of view (tele-wide):** • Horizontal: 5.5° to 50.6°
- Vertical: 3.1° to 29.3°
- Diagonal: 6.2° to 57°

Illumination:

- Color: 0.2 lux at F1.8
- B/W: 0.05 lux at F1.8

Synchronization: Internal

White Balance: ATW, AWB

Electronic Shutter:

AES: On/Off

Fix: 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec

S/N Ratio: More than 50 dB (AGC off)

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

DNR: Built-in 3D DNR

AGC Control: On/Off

Backlight Compensation: On/Off

Auto Exposure: On/Off

Image Rotation: Flip, Mirror, and 180° rotation

Auto Sense Up: On/Off, Max. 64x

Image Setting: Manually tune sharpness

Video

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

Video Output: via Ethernet

Video Streams: Up to 3 video streams (2 x H.264 and 1 x MJPEG)

Video Resolution and FPS (frames per second):

	NTSC		PAL	
	Size	Max. FPS	Size	Max. FPS
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
Full HD	1920 x 1080	30	1920 x 1080	25

Note: Up to 30/25 FPS for each of 3 independent streams at max resolution.

Video Viewing:

- DynaStream™ supported for automatic adjustment of frame rate
- Image stabilizer to reduce video shaking
- CBR Pro™ for optimized image quality within limited bandwidth
- 8 privacy mask areas provided
- Adjustable image size and quality
- Timestamp and text overlay
- Maximum of 5 simultaneous unicast connections
- ROI (Region of Interest) configuration for up to 3 area

Audio

Audio Inputs: 1 Line-in with 3.5 mm phone jack

Audio Outputs: 1 Line-out with 3.5 mm phone jack

Two-Way Audio: Full duplex two-way audio

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, SSL

Ethernet: 1 10/100BaseT(X) Ethernet port, RJ45 connector, or 1 100BaseFX, single mode

Serial Interface

RS-485: 1 full-duplex RS-485

GPIO

Digital Inputs: 1, max. 8 mA

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

Relay Output: 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

Local Storage

SD Socket: Standard SD socket (SDHC, SDXC)

Power Requirements

Input:

12/24 VDC, 24 VAC or Power-over-Ethernet (PoE+, 802.3at), redundant power design

Power Consumption: 23 W

Physical Characteristics

Camera Body Housing: Metal, IP30 protection

Weight: 1415 g

Installation: Wall mounting, ceiling mounting, pole mounting, corner mounting (optional external housing and mounting accessory may be required)

Alarms

Video Motion Detection: 3 independently configurable motion areas

Camera Tamper: Sensitivity adjustable camera tamper detection (Pending)

Scheduling: Daily repeat timing schedule

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

Custom Alarms: HTTP event 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: 84 MB video buffer for JPEG snapshot images

Environmental Limits

Operating Temperature:

Standard Models: -25 to 60°C (-13 to 140°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)

Standards and Certifications

Safety: UL60950-1, EN 50121-4, NEMA TS2

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

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

MTBF (mean time between failures)

Time: 169,886 hours

Database: Telcordia (Bellcore), GB 25°C

Warranty

Warranty Period: 3 years (not including moving parts; see Moxa's warranty policy online for details)

Details: See www.moxa.com/warranty

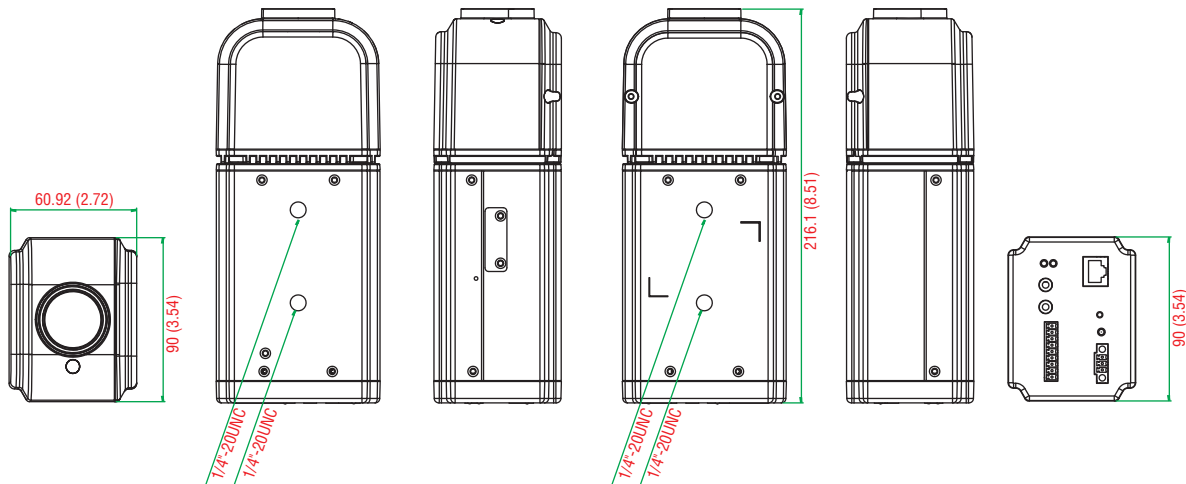
Software Development Kit

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 ProfileS

Dimensions

Unit: mm (inch)



Front View

Side Views

Rear View

Ordering Information

Available Models

VPort 56-2MP-CAM10X: Full HD zoom IP camera, RJ45 Ethernet port, 12/24 VDC or 24 VAC or PoE, -25 to 60°C operating temperature

VPort 56-2MP-CAM10X-T: Full HD zoom IP camera, RJ45 Ethernet port, 12/24 VDC or 24 VAC or PoE, -40 to 75°C operating temperature

VPort 56-2MP-CAM10X-S-SC: Full HD zoom IP camera, Single-mode fiber Ethernet port, 12/24 VDC or 24 VAC, -25 to 60°C operating temperature

VPort 56-2MP-CAM10X-S-SC-T: Full HD zoom IP camera, Single-mode fiber Ethernet port, 12/24 VDC or 24 VAC, -40 to 75°C operating temperature

Optional Accessories (can be purchased separately)

SoftNVR-IA: 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

Package Checklist

- VPort 56-2MP series IP camera
- 9-pin terminal block
- 2-pin terminal block

IP68 Indoor/Outdoor Housing

Protects camera for use in outdoor environments

VP-CI701

Construction: Die cast aluminum alloy

Dimensions: 406(L) x 109(H) x 145 (W) mm

View Window: Tempered glass

Housing Style: Clam Shell

Latch: Dual side screw-locking

Weight: 2,200 g



Wall Mount Bracket

For attaching the VP-CI701 housing to a wall

VP-CI800

Construction: Die cast aluminum alloy

Dimensions: 213 (L) x 146 (H) x 80(W) mm

Max Load: 20,000 g

Weight: 690 g



Pole Mount Bracket

For attaching the wallmount bracket to a pole

VP-CI815

Construction: Die cast aluminum alloy

Dimensions: 277.4 (L) x 75 (H) x 168.1 (W) mm

Max Load: 30,000 g

Weight: 2,400 g

Pole: Ø70 to Ø230 mm

