

# VPort 364A Series

**Excellent video quality, 4-channel H.264/MJPEG industrial video encoders**



- > Dual simultaneous H.264 and MJPEG video streams
- > Video latency under 200 ms
- > Moxa DynaStream™ function supported for network efficiency
- > ONVIF supported for standardization and interoperability
- > 802.1X and SSL/SSH for advanced network security
- > Industrial design with -40 to 75°C operating temperature
- > VPort SDK PLUS provided free



## : Introduction

The VPort 364A is a 4-channel industrial video encoder that supports the H.264 video compression algorithm, which uses less bandwidth than other video compression standards; the VPort 364A provides the best video quality available on the market today. In addition, the VPort 364A supports simultaneous dual video streams with different

Introduction formats: H.264 and MJPEG. The two video streams can be used for different purposes, such as viewing, recording, or analysis. In addition, the rugged industrial design with -40 to 75°C operating temperature, built-in fiber Ethernet ports, IP30 form factor protection, and industrial certifications, make the VPort 364A highly suitable for use in harsh environments.

## : Specifications

### Video

**Video Compression:** H.264 (MPEG4 part 10, AVC) or MJPEG

**Video Inputs:** 4, BNC connector (1.0 Vpp, 75 ohm)

**Video Streams:** Dual streams (one for H.264, the other for MJPEG)

**NTSC/PAL:** Manual

**Video Viewing:**

- DynaStream™ supported for changing the video frame rate automatically
- Adjustable image size and quality
- Timestamp and text overlay

**Video Resolution and FPS (frames per second) in single video stream:**

	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

### Audio

**Audio Inputs:** 1, Line-in or MIC-in with RCA connector

**Audio Outputs:** 1, Line-out with RCA connector

**Audio Format:** Mono, PCM

### Network

**Protocols:** TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, UPnP, RTP, RTSP, ICMP, IGMPv3, QoS, SNMPv1/v2c/v3, DDNS, Modbus/TCP, 802.1X (Pending), SSL/SSH (Pending)

**Ethernet:** 1 10/100BaseT(X) auto negotiating RJ45 port, or 1 100BaseFX fiber port (single/multi-mode, SC connector)

### Serial Port

**PTZ Ports:** 1, RS-232/422/485 port (5-pin terminal block connector), max. speed of 115.2 Kbps

**Console Port:** 1, RS-232 RJ45 port

### GPIO

**Digital Inputs:** 4, max. 8 mA

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

**Relay Outputs:** 2, max. 24 VDC @ 1 A

### LED Indicators

**STAT:** System status

**PWR1:** Power 1

**PWR2:** Power 2

**FAULT:** Can be configured to correspond to system alarm, power failure, or disconnected network

**V1, V2, V3, V4:** Video input signal activity for channels 1 to 4

### Power Requirements

**Input Voltage:** 2 12 VDC or 24 VDC/VAC inputs for redundancy, terminal block connector

**Power Consumption:** Max. 7.5 W

### Physical Characteristics

**Housing:** Metal, IP30 protection

**Dimensions:** 80.2 x 135 x 105 mm (3.16 x 5.31 x 4.13 in)

**Weight:** 1110 g

**Installation:** DIN rail mounting or panel mounting (with optional mounting kit)

### Alarms

**Video Motion Detection:** Includes sensitivity tuning

**Video Loss:** Video loss alarm

**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:** 24 MB per channel for JPEG snapshot images

### PAN/TILT/ZOOM

**PTZ Camera Control:** Via RS-232/422/485 PTZ port

**PTZ Control Functions:** PAN, TILT, ZOOM, FOCUS, moving speed, preset position (max. 25 positions), and 24 custom commands

**PTZ Function Updates:** Driver upload supported

**Supported Device Protocols:** Pelco D, Pelco P, Dynacolor DynaDome, Cohu, Custom Camera

**Transparent PTZ Control:** Control PTZ cameras with legacy PTZ control panel or keyboard connected to a PC or VPort decoder

### Security

**Password:** User level password protection

**Filtering:** By IP address

**Authentication:** 802.1X (Pending)

**Encryption:** SSL/SSH (Pending)

### Environmental Limits

**Operating Temperature:**

Standard Models: 0 to 60°C (32 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

**EMI:** FCC Part 15 Subpart B Class A, EN 55022 Class A

### EMS:

EN 61000-4-2 (ESD) Level 2,

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

**MTBF** (mean time between failures)

**Time:** 465,000 hrs

**Database:** Telcordia (Bellcore), GB 25°C

### 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 or above

**Memory:** 512 MB memory or above

**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

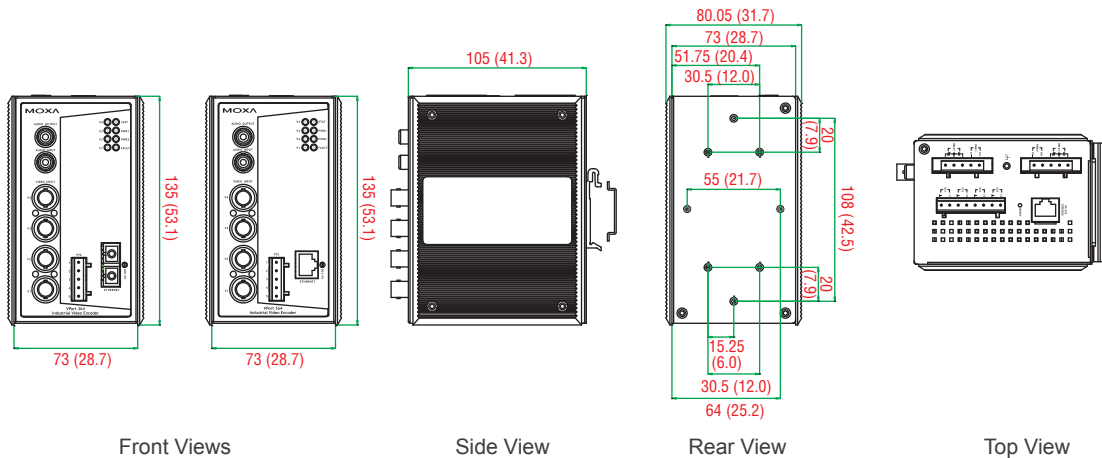
### Software Development Kit

**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		Port Interface		
Standard Temperature (0 to 60°C)	Wide Temperature (-40 to 75°C)	10/100/1000 BaseT(X)	Multi-mode, SC Connector	Single-mode, SC Connector
VPort 364A	VPort 364A-T	1	—	—
VPort 364A-M-SC	VPort 364A-M-SC-T	—	1	—
VPort 364A-S-SC	VPort 364A-S-SC-T	—	—	1

### 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

**WK-46:** Wall mounting kit

**RK-4U:** 4U-high 19" rack mounting kit

### Package Checklist

- VPort 364A video encoder
- 2 5-pin terminal blocks for 2 power inputs and 2 relay outputs
- 1 8-pin terminal block for 4 DIs
- 1 5-pin terminal block for the RS-232/422/485 PTZ control port
- Quick installation guide (printed)
- Documentation and software CD
- Warranty card