

VPort 461 Series

Excellent video quality 1-channel H.264 industrial video encoder

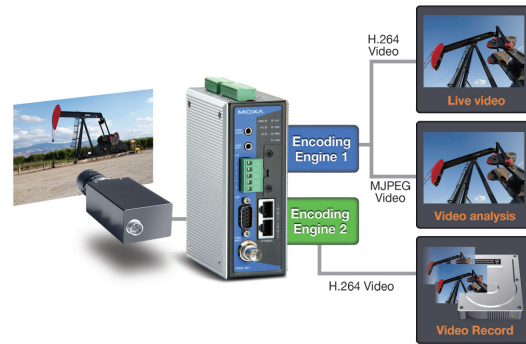


- > Three simultaneous video streams for H.264 and MJPEG
- > Video stream up to 30/25 frames/sec at full D1 (NTSC:720 x 480; PAL:720x576) resolution
- > Video latency under 200 ms
- > 2 Ethernet ports for cascade and Ethernet port redundancy
- > Local storage capability with SD card slot
- > Industrial design with -40 to 75°C operating temperature
- > Free VPort SDK PLUS supported



Introduction

The VPort 461 1-channel industrial video encoder with H.264 video compression algorithm provides the best video quality on the market, but with a smaller bandwidth requirement than other video compression standards. In addition, to meet various video stream requirements, the VPort 461 can provide up to 3 video streams simultaneously with H.264 and MJPEG compression format. Video streams can be used for different purposes, such as viewing, recording, and analyzing, and the industrial rugged design, which includes a -40 to 75°C operating temperature, IP30 form factor protection, and industrial certifications, make the VPort 461 suitable for harsh environments.



Specifications

Video

- Video Compression:** H.264 (MPEG4 part 10), MJPEG
- Video Inputs:** 1, BNC connector
- Video Outputs:** over Ethernet
- Video Streams:** Max. of 3 video streams (2 encoders: 1 for H.264, 1 for H.264 and MJPEG)
- NTSC/PAL:** Auto-sensing or manual
- 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

Video Viewing:

- Adjustable image size and quality
- Timestamp and text overlay

Audio

- Audio Inputs:** 1 Line-in or MIC-in with 3.5 mm phone jack
- Audio Outputs:** 1 Line-out with 3.5 mm phone jack

Network

- Protocols:** TCP, UDP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DHCP, UPnP, RTP, RTSP, IGMPv3, QoS, SNMPv1/v2c/v3, DDNS
- Ethernet:** 2 10/100BaseT(X) auto negotiating RJ45 ports

Serial Port

- PTZ Ports:** 1, RS-232/422/485 port (terminal block connector), max. speed of 115.2 Kbps, with 15 KV ESD protection
- COM Ports:** 1, RS-232/422/485 (DB9 female connector), max. speed of 115.2 Kbps, with 15 KV ESD protection
- Console Port:** 1 RS-232 RJ45 port

GPIO

- Digital Inputs:** 2, max. 8 mA
High: +13 to +30 V; Low: -30 to +3 V
- Relay Outputs:** 2, max. 24 VDC @ 1 A

LED Indicators

- PWR1:** Power 1
- PWR2:** Power 2
- FAULT:** Can be configured to correspond to system alarm, power failure, or disconnected network
- VIDEO:** Video input signal
- PTZ:** PTZ control signal
- SD:** SD card operation

Local Storage

- SD Socket:** Standard SD socket, V2.0 (SDHC)

Power Requirements

- Input Voltage:** 2 24 VDC/VAC power inputs for redundancy
- Power Consumption:** Approx. 5.5 W

Physical Characteristics

- Housing:** Metal, IP30 protection
- Dimensions:** 52.98 x 135 x 105 mm (2.09 x 5.31 x 4.13 in)
- Weight:** 900 g

Installation: DIN-Rail mounting, wall mounting (with optional kit)

Alarms

Video Motion Detection: Includes sensitivity tuning (after V2.0)

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 with event-triggered actions

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

PAN/TILT/ZOOM

PTZ Camera Control: Via RS-232/422/485 PTZ port or COM 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, Yokogawa (Fieldeye), 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

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)

Regulatory Approvals

Safety: UL508 (Pending)

EMS:

EN61000-4-2 (ESD), level 2

EN61000-4-3 (RS), level 3

EN61000-4-4 (EFT), level 3

EN61000-4-5 (Surge), level 3

EN61000-4-6 (CS), level 3

EN61000-4-8

EN61000-4-11

EMI: FCC Part 15, CISPR (EN55022) class A

Hazardous Location: UL/cUL Class I, Division 2, Groups A, B, C, D (Pending); ATEX Class I, Zone 2, Ex nC IIC (Pending)

Traffic Control: Complies with NEMA TS2-Section 2

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

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

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

System Requirements

CPU: Pentium 4, 2.4 GHz or above

Memory: 512 MB memory or above

OS: Windows XP/2000 with SP2 or above

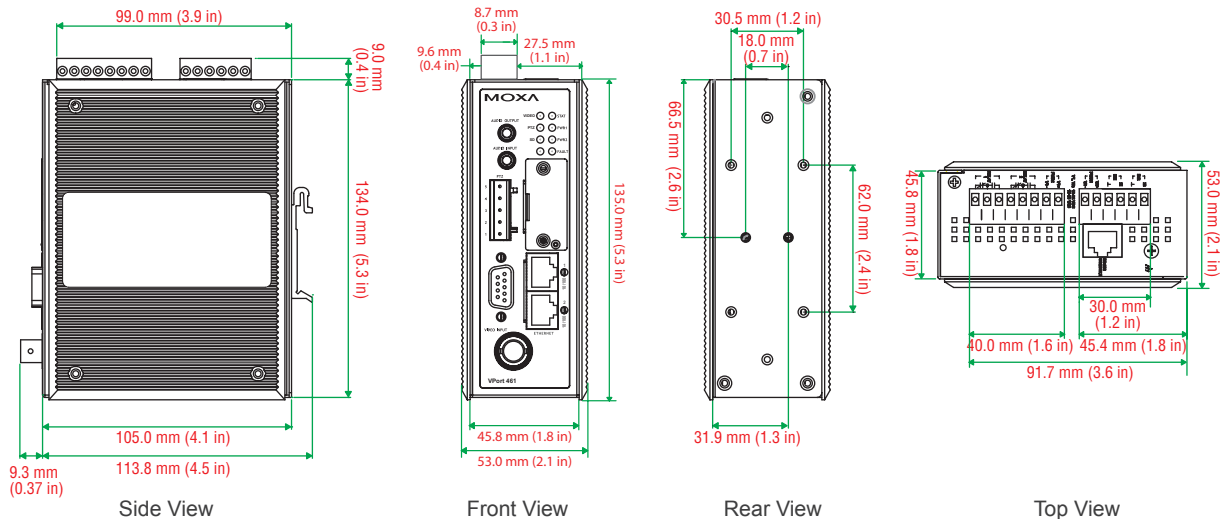
Browser: Internet Explorer 6.x or above

Multimedia: DirectX 9.0c or above

Software Bundled Free

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).

Dimensions (unit = mm)



Ordering Information

Available Models

VPort 461: 1-channel H.264 industrial video encoder with 2 10/100BaseT(X) ports, 0 to 60°C operating temperature

VPort 461-T: 1-channel H.264 industrial video encoder with 2 10/100BaseT(X) ports, -40 to 75°C operating temperature

Optional Accessories (can be purchased separately)

SoftNVR-IA: 32-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