

# VPort 464 系列

卓越視訊效能，4 頻道工業視訊編碼器



## 特色與優點

- 每個頻道同時支援 2 D1 30 fps 串流，或將一個四串流 30fps 影像分成 4 個頻道
- 影像延遲小於 200 毫秒
- 2 組乙太網路連接埠，提供串聯或乙太網路連接埠備援
- DynaStream™ 技術優化網路效能
- 符合 ONVIF 中標準化和互操作性
- SD 卡插槽可供本機儲存能力
- 工業設計，-40 至 75°C 操作溫度

## 認證



## 簡介

VPort 464 4 頻道工業視訊編碼器使用 H.264 視訊壓縮演算法，提供市面上最佳的視訊品質，但頻寬需求比其他視訊壓縮標準要求更小。此外，為了滿足各種需求，VPort 464 的每個頻道可同時支援 2 x 影像串流，或者您可以使用 H.264 和 MJPEG 壓縮格式將所有 4 x 頻道合併為 1 x 四串流，為各種用途提供更大的靈活性，包括檢視、錄製及分析。VPort 464 採用堅固耐用的工業設計，包括 -40 至 75°C 寬溫作業能力、IP30 等級的防護和工業級認證，適用於嚴苛環境。

VPort 464 配備兩個 Gigabit 乙太網路連接埠，並支援串聯模式及網路備援。此外，Moxa 創新的 DynaStream™ 技術在網路過載時自動降低影像幀速率，以減少影像傳輸的頻寬耗損。DynaStream™ 亦可於緊急事件發生時自動增加影像幀速率，讓網路管理者全面掌控頻寬耗用。CBR Pro™ 功能可在有限頻寬傳輸下保證最低封包遺失，確保影像不會出現馬賽克效果。

## 規格

### Memory

|              |      |
|--------------|------|
| microSD Slot | SDXC |
|--------------|------|

### Input/Output Interface

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| Digital Input Channels | 4                                                                               |
| Digital Inputs         | +13 to +30 V for state 1<br>-30 to +1 V for state 0<br>Max. input current: 8 mA |
| Relay Channels         | 2                                                                               |
| Contact Current Rating | Resistive load: 1 A @ 24 VDC                                                    |
| Connector              | Terminal block                                                                  |

### Ethernet Interface

|                                       |   |
|---------------------------------------|---|
| 10/100BaseT(X) Ports (RJ45 connector) | 2 |
|---------------------------------------|---|

### Ethernet Software Features

|           |                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocols | TCP/IP, IPv4/IPv6, UDP, HTTP, RTP/RTSP, ARP, UPnP, FTP, TFTP, SMTP, NTP Client, DNS, DDNS, QoS, IGMP v3, ICMP, SNMPv1/v2c/v3, Modbus TCP, HTTPS, 802.1X, NTCP |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Security Functions

|                |                                |
|----------------|--------------------------------|
| Password       | User-level password protection |
| Filter         | IP address                     |
| Authentication | 802.1X                         |
| Encryption     | HTTPS                          |

## LED Interface

|                |                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LED Indicators | STAT: Indicates if system is booted up properly or not<br>Power 1: Power 1 on/off<br>Power 2: Power 2 on/off<br>FAULT: Can be configured to correspond to system alarm, power failure, or disconnected network<br>Video: Video input signal<br>PTZ: Indicates if PTZ or COM port data has been transmitted<br>SD: Indicates if SD card was mounted successfully<br>Network: 10 Mbps or 100 Mbps |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Serial Interface

|              |                                                                    |
|--------------|--------------------------------------------------------------------|
| PTZ Port     | 1, RS-232 or RS-422/485 port, terminal block connector, 115.2 kbps |
| COM Port     | 1, RS-232 or RS-485 port, DB9 male connector, 115.2 kbps           |
| Console Port | 1 RS-232 port, 10-pin RJ45 (115200, n, 8, 1)                       |

## Power Parameters

|                     |                                   |
|---------------------|-----------------------------------|
| No. of Power Inputs | 2                                 |
| Input Voltage       | Redundant dual inputs             |
| Operating Voltage   | 12 to 32 VDC, 18 to 30 VAC        |
| Input Current       | 0.5 A @ 24 VDC<br>0.83 A @ 24 VAC |
| Power Connector     | 2-pin terminal block              |

## Video Interface

|                   |                                                                                |
|-------------------|--------------------------------------------------------------------------------|
| Video Compression | H.264 (ISO/IEC 14496-10) or MJPEG                                              |
| Video Input       | 4, BNC connector (1.0 Vpp, 75 ohm)                                             |
| Video Output      | via Ethernet                                                                   |
| Video Streams     | 2 independent H.264 or MJPEG video streams<br>1 quad (4-channel images) stream |
| 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  | 176 x 144   | 25       |
|                                              | 4CIF                                                                                                                                                                                                                                                                                                                                                                                                                     | 704 x 480  | 704 x 576   | 25       |
|                                              | CIF                                                                                                                                                                                                                                                                                                                                                                                                                      | 352 x 240  | 352 x 288   | 25       |
|                                              | VGA                                                                                                                                                                                                                                                                                                                                                                                                                      | 640 x 480  | 640 x 480   | 25       |
|                                              | QVGA                                                                                                                                                                                                                                                                                                                                                                                                                     | 320 x 240  | 320 x 240   | 25       |
|                                              | Full D1                                                                                                                                                                                                                                                                                                                                                                                                                  | 720 x 480  | 720 x 576   | 25       |
| Video Viewing                                | Quad View                                                                                                                                                                                                                                                                                                                                                                                                                | 1440 x 960 | 1440 x 1152 | 25       |
|                                              | DynaStream™ support for changing the video frame rate automatically<br>CBR Pro™ for good image quality in limited bandwidth transmissions<br>Adjustable image size and quality<br>Timestamp and text overlay<br>OSD (On Screen Display) position adjustable<br>Maximum of 5 simultaneous unicast connections, 50 multicast clients<br>Image tuning control: brightness, contrast, saturation, sharpness, noise reduction |            |             |          |

### Audio Interface

|               |                                            |
|---------------|--------------------------------------------|
| 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         |
| Audio Format  | Mono, PCM (G.711)                          |

### Camera Software Development

|                 |                                                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| VPort SDK PLUS  | Includes CGI commands, ActiveX Control, and API library for customized applications or system integration for third-party developers |
| Video Standards | ONVIF Profile S                                                                                                                      |

### Camera PAN/TILT/ZOOM

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| PTZ Camera Control    | Via PTZ port or COM port                                                 |
| PTZ Control Functions | Pan, tilt, zoom, focus, move speed, preset position (max. 128 positions) |
| PTZ Function Updates  | Driver upload supported                                                  |
| Protocols             | Pelco D, Pelco P, Custom Camera                                          |

### Camera Alarm Software Features

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| Intelligent Video      | Camera tampering detection                                                      |
| Video Motion Detection | 3 independently configurable areas                                              |
| Scheduling             | Daily repeat timing schedule                                                    |
| Imaging                | JPEG snapshots for pre/trigger/post alarm images                                |
| Custom Alarms          | HTTP event servers for setting customized alarm actions                         |
| Email/FTP Messaging    | Automatic transfer of stored images via email or FTP as event-triggered actions |
| Pre-Alarm Buffer       | 50 MB video buffer for JPEG snapshot images                                     |
| Video Recording        | Event recordings stored on the SD card                                          |

## Software Requirements

|                  |                                |
|------------------|--------------------------------|
| Memory Size      | 1 GB                           |
| Operating System | Windows 7 or above             |
| Browser          | Internet Explorer 9.x or above |
| Multimedia       | DirectX 9.0C or above          |

## Physical Characteristics

|              |                                                      |
|--------------|------------------------------------------------------|
| Housing      | Metal                                                |
| Dimensions   | 80.2 x 135 x 105 mm (3.16 x 5.31 x 4.13 in)          |
| Weight       | 1130 g (2.49 lb)                                     |
| Installation | DIN-rail mounting, Wall mounting (with optional kit) |

## Environmental Limits

|                                        |                                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------|
| Operating Temperature                  | Standard Models: -25 to 60°C (-13 to 140°F)<br>Wide Temp. Models: -40 to 75°C (-40 to 167°F) |
| Storage Temperature (package included) | -40 to 85°C (-40 to 185°F)                                                                   |
| Ambient Relative Humidity              | 5 to 95% (non-condensing)                                                                    |
| Altitude                               | 2000 m                                                                                       |

## Standards and Certifications

|           |                                                                                                                                                                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMI       | CISPR 32, FCC Part 15B Class A                                                                                                                                                                                                             |
| EMS       | IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV<br>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m<br>IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV<br>IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV<br>IEC 61000-4-6 CS: 10 V<br>IEC 61000-4-8 PFMF |
| Freefall  | IEC 60068-2-31                                                                                                                                                                                                                             |
| Safety    | UL 60950-1                                                                                                                                                                                                                                 |
| Shock     | IEC 60068-2-27                                                                                                                                                                                                                             |
| Vibration | IEC 60068-2-6                                                                                                                                                                                                                              |

## MTBF

|           |                 |
|-----------|-----------------|
| Time      | 569,152 hrs     |
| Standards | Telcordia SR332 |

## Warranty

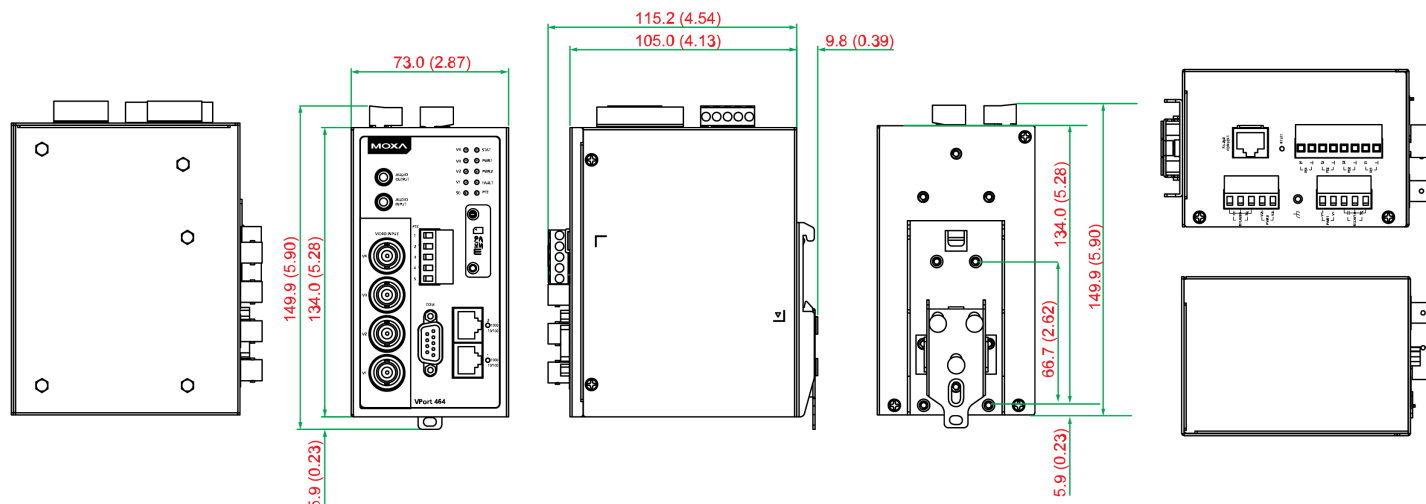
|                 |                                                                            |
|-----------------|----------------------------------------------------------------------------|
| Warranty Period | 5 years                                                                    |
| Details         | See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a> |

## Package Contents

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
| Device           | 1 x VPort 464 Series video encoder                                                  |
| Installation Kit | 2 x terminal block, 5-pin<br>1 x terminal block, 8-pin<br>1 x terminal block, 5-pin |
| Documentation    | 1 x warranty card                                                                   |

## 尺寸

單位：公釐（英吋）



## 訂購資訊

| Model Name  | Video Interface              | Audio Interface           | Local Storage                | Power Input                                                      | Operating Temp. | Mounting                                          |
|-------------|------------------------------|---------------------------|------------------------------|------------------------------------------------------------------|-----------------|---------------------------------------------------|
| VPort 464   | 4-channel analog video input | 1 x line-in, 1 x line-out | microSD slot, SDXC interface | Redundant power inputs with 2 x 12/24 VDC, 24 VAC power supplies | -25 to 60°C     | DIN-rail mount or Panel mount (with optional kit) |
| VPort 464-T | 4-channel analog video input | 1 x line-in, 1 x line-out | microSD slot, SDXC interface | Redundant power inputs with 2 x 12/24 VDC, 24 VAC power supplies | -40 to 75°C     | DIN-rail mount or Panel mount (with optional kit) |

## 配件（選購）

### Power Supplies

|           |                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DR-120-24 | 120W/2.5A DIN-rail 24 VDC power supply with universal 88 to 132 VAC or 176 to 264 VAC input by switch, or 248 to 370 VDC input, -10 to 60°C operating temperature |
| DR-4524   | 45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 50°C operating temperature                                       |
| DR-75-24  | 75W/3.2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 60°C operating temperature                                     |
| MDR-40-24 | DIN-rail 24 VDC power supply with 40W/1.7A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature                                             |
| MDR-60-24 | DIN-rail 24 VDC power supply with 60W/2.5A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature                                             |

### Wall-Mounting Kits

|          |                                                         |
|----------|---------------------------------------------------------|
| WK-46-01 | Wall-mounting kit, 2 plates, 8 screws, 46 x 66.8 x 2 mm |
|----------|---------------------------------------------------------|

### Rack-Mounting Kits

|       |                           |
|-------|---------------------------|
| RK-4U | 19-inch rack-mounting kit |
|-------|---------------------------|

© Moxa Inc. 版權所有。2018 年 11 月 12 日更新。

未經 Moxa Inc. 明確書面許可，不得以任何方式複製或使用本文件及其任何部分。產品規格如有變更，恕不另行通知。請至本公司官網了解最新的產品資訊。