

# VS8801/8401

## 8-CH/4-CH Video Server

**H.264 • Rack Mount Design**



VIVOTEK VS8801/8401, the new milestone in video server security performing 8-CH high resolution with high frame rate in H.264, are able to convert analog video into digital video with the highest quality. The H.264 compression format drastically reduces the file sizes and conserves valuable bandwidth and storage space. The VS8401 supports simultaneous dual streams, while the VS8801 supports single stream to be transmitted in H.264, MPEG-4 and MJPEG formats for versatile applications. The stream can also be individually configured with frame rates, resolution, and image quality so as to meet different platforms or bandwidth constraints.

Featured with intelligent video functions, such as motion detection & tamper detection, the VS8801/8401 are capable of upgrading analog cameras into intelligent cameras. The tamper detection feature can detect events such as blockage, redirection, defocus, and spray-painting of camera lens, making it an intelligent solution to possible camera obstruction. Furthermore, the video server also upgrades the security level of the IP surveillance system with the network security protocols, HTTPS and 802.1x. It is also designed with Giga LAN for large transmission need and 12V DC/24V AC compatible power input design. These features make VS8801/8401 easy to install and integrate with the existing analog system.

Monitoring with VIVOTEK's ST7501 as the video management software for better scalability and easy-to-use operation is another delightful benefit. Most importantly, it is designed for rack mount solution for easy installation. The solution for video server is a pioneering idea in the world. The innovative vision of video server, VS8801/8401, help you easily upgrade to a full-featured, high-end IP surveillance solution!

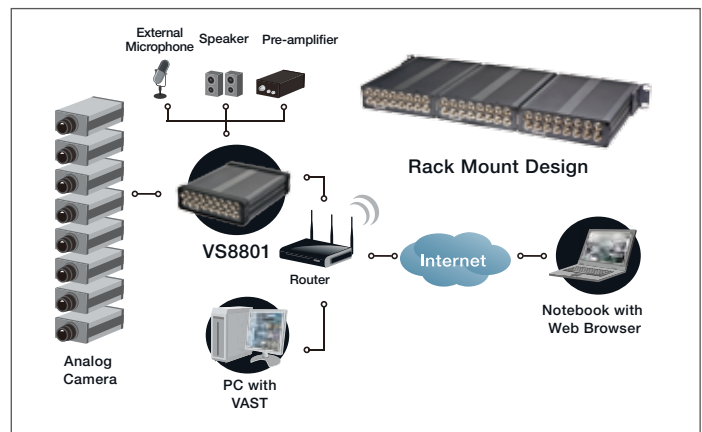
## Features

- > Up to 30 fps in D1 Resolution
- > Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- > 8-CH Video and Audio In (VS8801)  
4-CH Video and Audio In (VS8401)
- > Tamper Detection for Unauthorized Changes
- > Two-way Audio
- > 8 Digital I/O for External Sensor and Alarm (VS8801)  
4 Digital I/O for External Sensor and Alarm (VS8401)
- > RS-485 Interface for PTZ Camera Control
- > 12V DC/24V AC Compatible Power Input
- > Activity Adaptive Streaming for Dynamic Frame Rate Control
- > Professional Rack Mount Design

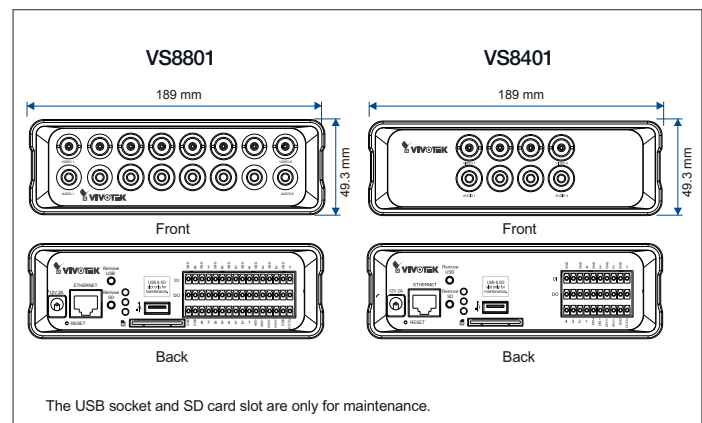
System	<ul style="list-style-type: none"> <li>CPU: Mozart 380 SoC</li> <li>Flash: 32MB</li> <li>RAM: 512MB</li> <li>Embedded OS: Linux 2.6</li> </ul>
Camera Control	<ul style="list-style-type: none"> <li>PTZ camera control through RS-485</li> <li>Supported devices and protocols: DynaDome/ SmartDome</li> <li>Pelco D</li> <li>LiLin</li> <li>Pelco P</li> <li>Samsung scc643 and customized types</li> <li>Supports CGI command serial driver</li> </ul>
Video	<ul style="list-style-type: none"> <li>Compression: H.264/MJPEG/MPEG-4</li> <li>Streaming:                             <ul style="list-style-type: none"> <li>Single Stream (VS8801) or Dual Streams (VS8401)</li> <li>H.264 streaming over UDP, TCP, HTTP or HTTPS</li> <li>MPEG-4 streaming over UDP, TCP, HTTP or HTTPS</li> <li>H.264/MPEG-4 multicast streaming</li> <li>MJPEG streaming over HTTP or HTTPS</li> </ul> </li> <li>Supports activity adaptive streaming for dynamic frame rate control</li> <li>Supports 3GPP mobile surveillance</li> <li>Frame rates:                             <ul style="list-style-type: none"> <li>H.264: Up to 180 fps at D1</li> <li>MJPEG: Up to 240 fps at D1</li> <li>MPEG-4: Up to 80 fps at D1</li> </ul> </li> <li>Interface:                             <ul style="list-style-type: none"> <li>BNC connector for video output</li> </ul> </li> </ul>
Image Settings	<ul style="list-style-type: none"> <li>Adjustable image size, quality and bit rate</li> <li>Time stamp and text caption overlay</li> <li>Flip &amp; mirror</li> <li>Configurable brightness, contrast, saturation, sharpness</li> <li>Supports privacy masks</li> </ul>
Audio	<ul style="list-style-type: none"> <li>Compression:                             <ul style="list-style-type: none"> <li>G.711 audio encoding, bit rate: 64 kbps, <math>\mu</math>-Law, or A-Law mode selectable</li> </ul> </li> <li>Interface:                             <ul style="list-style-type: none"> <li>Audio input, up to 1Vrms, 3.5 mm Phone Jack</li> <li>Audio output, Terminal block x 8</li> </ul> </li> <li>Supports two-way audio (Per channel)</li> <li>Supports audio mute</li> </ul>
Networking	<ul style="list-style-type: none"> <li>10/100/1000 Mbps Gigabit Ethernet, RJ-45</li> <li>Onvif support</li> <li>Protocols: IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP and 802.1X</li> </ul>
Alarm and Event Management	<ul style="list-style-type: none"> <li>Triple-window video motion detection</li> <li>Tamper detection</li> <li>Four D/I and four D/O for external sensor and alarm (VS8401)</li> <li>Eight D/I and eight D/O for external sensor and alarm (VS8801)</li> <li>Event notification using HTTP, SMTP or FTP</li> <li>Local recording of MP4 file</li> </ul>
Security	<ul style="list-style-type: none"> <li>Multi-level user access with password protection</li> <li>IP address filtering</li> <li>HTTPS encrypted data transmission</li> <li>802.1X port-based authentication for network protection</li> </ul>
Users	<ul style="list-style-type: none"> <li>Live viewing for up to 10 clients</li> </ul>
Weight	<ul style="list-style-type: none"> <li>Net: 837 g (VS8801)</li> </ul>
Dimension	<ul style="list-style-type: none"> <li>189 mm (L) x 153 mm (W) x 49.3 mm (H)</li> </ul>
LED Indicator	<ul style="list-style-type: none"> <li>System power and status indicator</li> <li>System activity and network link indicator</li> </ul>
Power	<ul style="list-style-type: none"> <li>Power input: 12V DC/24V AC</li> <li>Power consumption: Max. 24 W</li> </ul>

Approvals	<ul style="list-style-type: none"> <li>CE, LVD, FCC, VCCI, C-Tick</li> </ul>
Operating Environments	<ul style="list-style-type: none"> <li>Temperature: -10° C ~ 50° C</li> <li>Humidity: 20 ~ 80% RH</li> </ul>
Viewing System Requirements	<ul style="list-style-type: none"> <li>OS: Microsoft Windows 2000/XP/Vista/Win7</li> <li>Browser: Internet Explorer 6 or above</li> <li>Cell phone: 3GPP player</li> <li>Real Player: 10.5 or above</li> <li>Quick Time: 6.5 or above</li> </ul>
Installation, Management, and Maintenance	<ul style="list-style-type: none"> <li>Installation Wizard 2</li> <li>32-CH ST7501 recording software</li> <li>Supports firmware upgrade</li> </ul>
Interface	<ul style="list-style-type: none"> <li>RS-485: Half Duplex</li> </ul>
Applications	<ul style="list-style-type: none"> <li>SDK available for application development and system integration</li> </ul>
Warranty	<ul style="list-style-type: none"> <li>24 months</li> </ul>

## System Overview



## External View



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