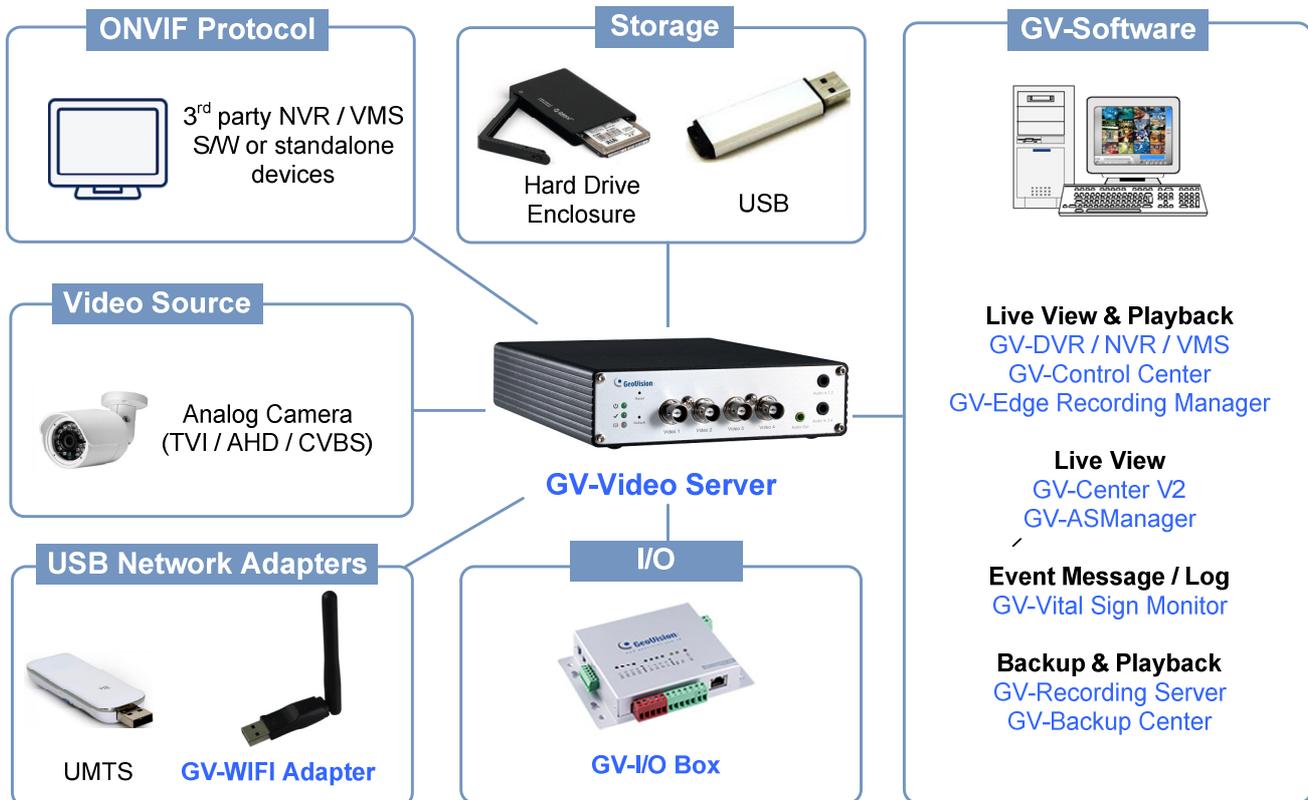# GV-VS2401 4CH H.264 Combo 1080p Video Server

- H.264
- 4-channel combo 18 fps at 3 MP, 15 fps at 4 MP, 12 fps at 5 MP
- 4-channel combo 1080p / 720p and analog 960H / D1 real-time video
- 12V DC
- Tampering Alarm
- USB HDD Storage
- UMTS / 3G / 3.5G / 4G
- Automatic switch between WiFi and 3G / 4G
- Supports over 50 PTZ models
- 29 languages on web interface
- HD-TVI (1.0 / 2.0 standard) / HD-AHD
- ONVIF (Profile S) conformant

GV-VS2401 is a powerful H.264 Video Server with compact size. It supports 4-channel 3 MP, 5 MP, 1080p / 720p or analog 960H / D1 real-time video. It can be fully integrated with GV-DVR / NVR / VMS to form the most powerful IP surveillance solution. The video server converts analog signals into high-resolution digitized images of up to 5 megapixels and supports over 50 PTZ models to fulfill various project demands. GV-VS2401 can record videos to a local USB storage, performing as a compact video recorder. It is also able to trigger Tampering Alarm alerts when the cameras are tampered with, which can be used to prevent criminal activities.

ONVIF Protocol
3rd party NVR / VMS S/W or standalone devices

Storage
Hard Drive Enclosure   USB

GV-Software

Live View & Playback
GV-DVR / NVR / VMS
GV-Control Center
GV-Edge Recording Manager

Live View
GV-Center V2
GV-ASManager

Event Message / Log
GV-Vital Sign Monitor

Backup & Playback
GV-Recording Server
GV-Backup Center

Video Source
Analog Camera
(TVI / AHD / CVBS)

GV-Video Server

USB Network Adapters
UMTS   GV-WIFI Adapter

I/O
GV-I/O Box

Specifications

Video		
Video Standard		NTSC, PAL
Video Input		4 channels
Compression		H.264
Signal Type		Combo / CVBS
Frame Rate	NTSC	18 fps per channel at 3 MP; 72 fps in total for 4 channels 15 fps per channel at 4 MP, 60 fps in total for 4 channels 12 fps per channel at 5 MP; 60 fps in total for 4 channels 30 fps per channel at 1080p; 120 fps in total for 4 channels
	PAL	18 fps per channel at 3 MP; 72 fps in total for 4 channels 15 fps per channel at 4 MP, 60 fps in total for 4 channels 12 fps per channel at 5 MP; 60 fps in total for 4 channels 25 fps per channel at 1080p; 100 fps in total for 4 channels

Note:
1. More than 32 connections from clients may reduce system performance. In that case, lower frame rates can maintain smooth video stream.
2. The frame rate of the 3/4/5 MP cameras must also support the specified frame rate in order to display the video stream.

Resolution	NTSC HD	Main Stream	2592 x 1944, 2560 x 1440, 2048 x 1536, 1920 x 1080, 1280 x 720, 640 x 360, 448 x 252 for Combo Signal
		Sub Stream	640 x 360, 448 x 252 for Combo Signal
	NTSC SD	Main Stream	960 x 480, 720 x 480, 480 x 240, 360 x 240 for Analog Signal
		Sub Stream	480 x 240, 360 x 240 for Analog Signal
	PAL HD	Main Stream	2592 x 1944, 2560 x 1440, 2048 x 1536, 1920 x 1080, 1280 x 720, 640 x 360, 448 x 252 for Combo Signal
		Sub Stream	640 x 360, 448 x 252 for Combo Signal
	PAL SD	Main Stream	960 x 576, 720 x 576, 480 x 288, 360 x 288 for Analog Signal
		Sub Stream	480 x 288, 360 x 288 for Analog Signal
Video Streaming			Configurable frame rate and bandwidth, Constant and variable bitrate
Video Adjustment			Brightness, Contrast, Saturation, Hue, Sharpness
Dual Streams			Yes
Coaxial Cable	Recommended Type		5C-FB or above
	Maximum Length		300 m (984 ft)

Audio	
Audio Input	2 ports, 4 channels
Compression	G.711
Audio Support	Two-way

Management		
Event Management	Trigger	Schedule, Sensor Input, Motion Detection, Tampering Alarm
	Action	● Store Video (AVI format) ● Send e-mails with captured images ● Upload captured images to FTP Server ● Monitor through Center V2 and Vital Sign Monitor ● Activate relay outputs to control external devices
Firmware Upgrade		Remote upgrade by HTTP, Firmware upgrade utility
Storage		USB HDD Storage
Client PC Requirements		Microsoft Internet Explorer 8.x or later
Security		IP address filtering
Language		Bulgarian / Czech / Danish / Dutch / English / French / German / Greek / Hebrew / Hindi / Hungarian / Italian / Indonesian / Japanese / Norwegian / Lithuanian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Thai / Traditional Chinese / Turkish

Max Number of Live Streams	16
Max Number of RTSP Streams	25
Network	
Interface	10/100/1000 Base-T Ethernet, 802.11b/g/n Wireless LAN (optional), Mobile broadband: UMTS, EDGE, etc. (optional)
Protocol	DHCP, DynDNS, FTP, HTTP, HTTPS, 3GPP/ISMA, NTP, ONVIF (Profile S), RTSP, SMTP, SNMP, TCP, UDP, UPnP, QoS (DSCP)
Security Feature	-No default ID and Password -802.1x authentication -HTTPS with an SSL certificate stored within the video server
External Interface	
Video Input	4 BNC ports
Audio Input	2 port stereo phone jack, 3.5 mm/0.14''
Audio Output	1 port stereo phone jack, 3.5 mm/0.14''
Sensor Input	4 inputs
Alarm Output	4 outputs
PTZ	RS-485 +/-
Ethernet	RJ-45, 10/100/1000 Mbps
USB	2 ports (USB 2.0)
Power	Input	12V, 3.0A
	Output	12V, 1.6A, (19.2 W Max.)
Environment	
Operation Temperature	-20 °C ~ 50 °C / -4 °F ~ 122 °F
Humidity	0 ~ 90% RH (no condensation)
Weather Resistance	Indoor use
Physical	
Dimensions (L x W x H)	174 x 145 x 40 mm / 6.85 x 5.7 x 1.57 in
Weight	0.73 kg / 1.61 lb
Regulatory	CE, FCC, RCM, RoHS compliant
Applications	
Software Supported	GV-VMS (V16.11.0.0), GV-DVR / NVR (V8.7.4.0), GV-Control Center (V3.4.0.0), GV-Backup Center (V1.2.0.0), GV-Edge Recording Manager (V1.3.0.0), GV-Center V2 (V16.11.0.0), GV-Recording Server / Video Gateway (V1.3.0.0), GV-Redundant / Failover Server (V1.1.0.0), GV-Remote ViewLog (V16.11.0.0)
Mobile Phone Support	GV-Eye for iOS and Android
Live Viewing	IE, Firefox, Chrome, Safari, Edge
CMS Server support	GV-Control Center, GV-Center V2, GV-Vital Sign Monitor

Note:

1. GV-Video Server cannot work with microphones that acquire power from the unit. Use microphones that have external power supply.
2. GV-VS2401 supports 1 external hard disk (2.5"or 3.5") with up to 8 TB capacities.
3. It is not recommended to use the flash USB drive with GV-VS2401 because of its slow read and write speed.
4. When transmitting video signals over a long distance, it is highly recommended to use 5C-FB coaxial cables or above to minimize the degradation of image quality. The transmission distance should be within 300 m (984 ft).
5. Product design and specifications are subject to change without notice.

Packing List

1. GV-VS2401
2. AC Power Cord
3. Power Adaptor
4. Download Guide
5. Warranty Card

Options

Optional devices can expand your GV-Video Server's capabilities and versatility. Contact our dealer for more information.

DC Male-to-Male Cable DC 1-Male to 4-Female Cable	DC Male-to-Male Cable and DC 1-Male to 4-Female Cable are both used to power the cameras through the GV-Video Server. For instance, you can purchase four DC Male-to-Male Cables and one DC 1-Male to 4-Female Cable to power four cameras through the GV-Video Server. DC 1-Male to 4-Female Cable DC Male-to-Male Cable
GV-Relay V2	Working with a GV-Relay V2, the GV-Video Server can drive the loads of relay outputs over 5 volts.
GV-WiFi Adaptor V2	GV-WiFi Adaptor V2 is designed to connect the GV IP devices, such as GV-Video Server, to the wireless network.
3.5 mm Stereo to RCA Cable	3.5 mm Stereo to RCA Cable is served as an audio adapter for microphones with RCA connectors.
Wall Hook	Wall Hook is used to mount GV-VS2401 to the wall.
DIN-rail Hook	DIN-rail Hook is used to mount GV-VS2401 to a 35-mm (1.38-in) DIN rail.
Rack Mount	Rack Mount is used to mount up to 3 video servers to a 19-in (482.6-mm) rack.

Supported Wireless LAN USB Adaptor

Vendors	Model
D-Link	DWA-140 (H/W version B1), DWL-G122 (version C1)
EDIMAX	EW-7318Ug, EW-7718Un, EW-7711UAn
Linksys	WUSB54GC, WUSB600 (version 1)
Pegatron	WL-166N11
Note: Linksys WUSB54GC ver. 3 is not supported.	

Supported Mobile Broadband Device

Vendors	Model
Bandluxe	C320, C501
HUAWEI	E156, E156B, E169, E220, E1692, E1750, E1752, E1756, E1756C, EC169C, EC189 USB Modem (HSDPA/UMTS/EDGE/GPRS/GSM)
Novatel	MC950D, MC996D, MC998D (HSDPA/UMTS/EDGE/GPRS/GSM)
Onda	MSA523HS
Sierra	250U
Verizon	USB727, USB728, USB760 Modem (EVDO)
Vodafone	K3565 (Rev 2)
ZTE	MF100