

## GV-VS2820 8CH H.264 AHD 1080p Video Server



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

*\*Smart streaming is only supported by GV-DVR / NVR V8.7.0.0 or later and GV-VMS V16.10.3 or later*

GV-VS2820 is a powerful H.264 Video Server with compact size and supports 8 channels of AHD 18 fps at 3 M and 15 fps at 4 M, 1080p / 720p and analog 960H / D1 real-time video. It can be fully integrated with GV-DVR / NVR / VMS to form a powerful IP surveillance solution. GV-VS2820 converts analog signals into high-resolution digitized images up to 4 megapixels and supports over 50 PTZ models to fulfill various project demands. It can record videos to a local USB storage, performing as a compact video recorder. It is also able to trigger Tampering Alarm alerts when cameras are tampered with, which can prevent criminal activities.

### Specifications

Video			
Video Standard	NTSC, PAL		
Video Input	8 channels		
Compression	H.264		
Signal Type	AHD / CVBS		
Frame Rate	NTSC	18 fps per channel at 3 MP; 144 fps in total for 8 channels 15 fps per channel at 4 MP; 120 fps in total for 8 channels 30 fps per channel at 1080p; 240 fps in total for 8 channels	
	PAL	18 fps per channel at 3 MP; 144 fps in total for 8 channels 15 fps per channel at 4 MP; 120 fps in total for 8 channels 25 fps per channel at 1080p; 200 fps in total for 8 channels	
Resolution	NTSC HD	Main Stream	2560 x 1440, 2048 x 1536, 1920 x 1080 (Default), 1280 x 720, 640 x 360, 448 x 252 for AHD Signal
		Sub Stream	640 x 360, 448 x 252 (Default) for AHD Signal
	NTSC SD	Main Stream	960 x 480, 720 x 480 (Default), 480 x 240, 360 x 240 for Analog Signal
		Sub Stream	480 x 240, 360 x 240 (Default) for Analog Signal
	PAL HD	Main Stream	2560 x 1440, 2048 x 1536, 1920 x 1080 (Default), 1280 x 720, 640 x 360, 448 x 252 for AHD Signal
		Sub Stream	640 x 360, 448 x 252 (Default) for AHD Signal
	PAL SD	Main Stream	960 x 576, 720 x 576 (Default), 480 x 288, 360 x 288 for Analog Signal
		Sub Stream	480 x 288, 360 x 288 (Default) 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)	

<b>Audio</b>		
Audio Input	4 ports, 8 channels	
Compression	G.711	
Audio Support	Two-way	
<b>Management</b>		
Event Management	Trigger	Schedule, Sensor Input, Motion Detection
	Action	<ul style="list-style-type: none"> <li>● Store Video (AVI format)</li> <li>● Send e-mails with captured images</li> <li>● Upload captured images to FTP Server</li> <li>● Monitor through Center V2 and Vital Sign Monitor</li> <li>● Activate relay outputs to control external devices</li> </ul>
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	
<b>Network</b>		
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)	
<b>External Interface</b>		
Video Input	8 BNC ports	
Audio Input	4 ports (stereo phone jack, 3.5mm/0.14")	
Audio Output	1 port (stereo phone jack, 3.5 mm/0.14")	
Sensor Input	8 inputs	
Alarm Output	8 outputs	
PTZ	RS-485 +/-	
Ethernet	RJ-45, 10/100/1000 Mbps	
USB	2 ports (USB 2.0)	
Power	Input	DC Jack (DC 12V, 3.0A)
<b>Environment</b>		
Operation Temp.	-20°C ~ 50°C / -4°F ~ 122°F	
Humidity	0% ~ 90% RH (non-condensing)	
Weather Resistance	Indoor use	
<b>Physical</b>		
Dimensions (L x W x H)	200 x 175 x 40 mm / 7.87 x 6.88 x 1.57 in	
Weight	0.95 kg / 2.09 lb	
Regulatory	CE, FCC, RCM, RoHS compliant	
<b>Applications</b>		
Software Supported	GV-VMS (V16.10.3.0), GV-DVR / NVR (V8.7.1.0), GV-Control Center (V3.4.0.0), GV-Edge Recording Manager (V1.2.0.0), GV-Center V2 (V16.10.0.0), GV-Recording Server (V1.3.0.0), GV-Redundant / Failover Server (V1.1.0.0)	
Network Storage	GV-DVR / NVR / VMS, GV-Backup Center, GV-Recording Server	
Mobile Phone Support	GV-Eye for iOS and Android	
Live Viewing	IE, Firefox, Chrome, Safari, Edge, GV-Edge Recording Manager	
CMS Server support	GV-Control Center, GV-Center V2, GV-Vital Sign Monitor	

**Note:**




1. It is required to apply patch files to all the supported software mentioned above except GV-VMS and GV-Center V2.
2. GV-Video Server cannot work with microphones that acquire power from the unit. Use microphones that have external power supply.
3. GV-VS2820 supports 1 external hard disk (2.5" or 3.5") with up to 6 TB capacities.
4. It is not recommended to use the flash USB drive with GV-VS2820 because of its slow read and write speed.
5. GV-VS2820 does not support coaxial cable connection with PTZ cameras.
6. Product design and specifications are subject to change without notice.

**Packing List**

1. GV-VS2820
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 your dealer for more information.

GV-Relay V2	Working with a GV-Relay V2, the GV-Video Server is capable of driving the loads of relay outputs over 5 volts.
GV-WiFi Adaptor V2	The WiFi Adaptor V2 is designed to connect 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	<p>Wall Hook is used to mount GV-VS2820 to the wall.</p> 
DIN-rail Hook	<p>DIN-rail Hook is used to mount GV-VS2820 to a 35-mm (1.38-in) DIN rail.</p> 
Rack Mount	<p>Rack Mount is used to mount up to 2 video servers to a 19-in (482.6-mm) rack.</p> 

**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
Bandlux	C320, C501
D-Link	DWM-222
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