

## GV-VS21600 16CH H.264 Combo 1080p Video Server



- H.264
- 8-channel combo 18 fps at 3 MP and 15 fps at 4 MP
- 16-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-VS21600 is a powerful H.264 Video Server with compact size. It supports 8-channel combo 18 fps at 3 MP / 15 fps at 4 MP, 16-channel combo 1080p / 720p and analog 960H / D1 real-time video. The video server can be fully integrated with GV-DVR / NVR / VMS to form a powerful IP surveillance solution. It converts analog signals into high-resolution digitized images of up to 4 megapixels and supports over 50 PTZ models to fulfill various project demands. GV-VS21600 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.

### Specifications

Video			
Video Standard	NTSC, PAL		
Video Input	16 channels		
Compression	H.264		
Signal Type	Combo / 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 15 fps per channel at 1080p, 30 fps per channel at 720p / 960H / D1; 240 fps in total for 16 channels * The frame rate will be restricted to 15 fps only when more than 8 channels are set at 1080p.	
	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 15 fps per channel at 1080p, 25 fps per channel at 720p / 960H / D1; 200 fps in total for 16 channels * The frame rate will be restricted to 15 fps only when more than 8 channels are set at 1080p.	
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 Combo Signal
		Sub Stream	640 x 360, 448 x 252 (Default) for Combo 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 Combo Signal
		Sub Stream	640 x 360, 448 x 252 (Default) for Combo 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		16 RCA ports, 16 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 through Web interface or GV-IP Device 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		1 DVI socket supporting 16 video BNC ports
Audio Input		1 DVI socket supporting 16 audio RCA ports
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 ~ 50°C / -4 ~ 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		1.1 kg / 2.42 lb
Regulatory		CE, FCC, RCM, RoHS compliant
<b>Applications</b>		
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)
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
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.
2. GV-Video Server cannot work with microphones that require power from the unit. Use microphones that have external power supply.
3. GV-VS21600 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-VS21600 because of its slow read and write speed.
5. Product design and specifications are subject to change without notice.

**Packing List**

1. GV-VS21600
2. AC Power Cord
3. Power Adaptor
4. DVI to 16 Video BNC Breakout Cable
5. DVI to 16 Audio RCA Breakout Cable
6. Download Guide
7. 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 the 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 the GV IP devices, such as GV-Video Server, to the wireless network.
Wall Hook	<p>Wall Hook is used to mount GV-VS21600 to the wall.</p> 
DIN-rail Hook	<p>DIN-rail Hook is used to mount GV-VS21600 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
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