

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



- H.264
- 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 and supports multiple applications. It supports 16-channel combo 1080p / 720p and analog 960H / D1 real-time video, fully integrated with GV-DVR / NVR / VMS to form the most powerful IP solution. GV-VS21600 converts analog signals into high-resolution digitized images up to 2 megapixels. It also supports over 50 PTZ models to fulfill various project demands. It can record video to a local USB storage, forming the smallest video recorder. It can also activate Tampering Alarm alerts when cameras are tampered with, which can prevent criminal activities successfully.

### Specifications

Video			
Video Standard		NTSC, PAL	
Video Input		16 channels	
Compression		H.264	
Frame Rate	NTSC	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	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	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	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)	
Audio			
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 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		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. The GV-Video Server cannot work with the microphones that acquire 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 x 1
3. Power Adaptor x 1
4. DVI to 16 Video BNC Breakout Cable x 1
5. DVI to 16 Audio RCA Breakout Cable x 1
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