## 16 Channel Network Video Recorder

GV-NVR16CH-S2-AI



#### **Features**

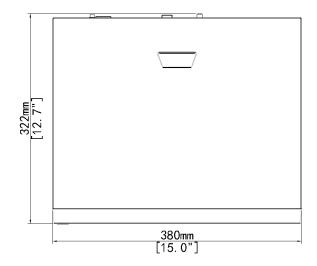
- Support Ultra 265/H.265/H.264 video formats
- 8/16/32-channel input
- Plug & Play with 8/16 independent PoE network interfaces
- Support mainstream cameras of ONVIF conformance (Profile S, Profile G, Profile T) and RTSP protocols
- Support 1-ch HDMI, 1-ch VGA. HDMI up to 4K (3840x2160) resolution
- VGA and HDMI independent output
- Up to 16 Megapixels resolution recording
- 2 SATA HDD, up to 10TB for each HDD
- ANR technology to enhance the storage reliability when the network is disconnected
- Support cloud upgrade

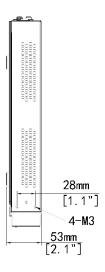
# Specifications

Video/Audio Input				
IP Video Input	16-ch			
Audio Input	1-ch, RCA			
Network				
Incoming bandwidth	320Mbps			
Outgoing bandwidth	160Mbps			
Remote Users	128			
Protocols	TCP/IP, P2P, UPnP, NTP, DHCP, PPP0E, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, RTSP, IPV6			
Browser	IE(IE10/11) for Windows			
	Firefox (version 52.0 and above) for Windows			
Browser	Chrome(version 45 and above) for Windows			
	Edge(version 79 and above) for Windows			
Video/Audio Output				
HDMI/VGA Output	HDMI: 4K (3840x2160)@30, 1920x1080p@60, 1920x1080p@50, 1600x1200@60, 1280x1024@60, 1280x720@60, 1024x768@60  VGA: 1920x1080p@60, 1920x1080p@50, 1280x1024@60, 1600x1200@60, 1280x720@60, 1024x768@60			
Recording Resolution	16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF			
Audio Output	1-ch, RCA			
Two-way Audio	1-ch, RCA(Using the audio input and output)			
Audio Compression	G.711A, G.711U			
Synchronous Playback	16-ch			
Liveview display	1/4/6/8/9/16			
Corridor Mode Screen	3/4/5/7/9/10/12/16			
Snapshot				
FTP/Schedule/Event Snapshot	4-ch snapshot, up to D1 resolution			
Decoding				
Decoding format	Ultra 265/H.265/H.264			
Live view/Playback	16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF			
Capability	Ultra 265/H.265: 2 x 16MP@30, 2 x 12MP@30, 4 x 4K@30, 6 x 5MP@30, 8 x 4MP@30, 10 x 3MP@30, 16 x 1080P@30, 32 x 960P@25 H.264: 2 x 16MP(4800 x 2688)@30, 2 x 12MP@30, 2 x 4K@30, 4 x 5MP@30, 6 x 4MP@30, 8 x 3MP@30, 14 x 1080P@30, 30 x 720P@30, 32 x D1			
Hard Disk				
SATA	2 SATA interfaces			

Smart  VCA Detection by Camera   Pace Detection, Face Comparison, Vehicle Detection, Intrusion Detection, Cross Line Detection, Enter Area, Leave Area, Leave Area, Uniformation Detection by Comment of Comment	Capacity	Up to 10TB for each disk			
Temperature Detection, Smoking Detection, Temperature Measurement, Smoke and Fire Detection, Camera  VCA Search  Face Snapshot Search, Face Comparison Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report  People Counting  Smart Intrusion Prevention (SIP), Face Detection, Face Comparison, Vehicle Detection, Face Detection, Face Detection, Face Detection, Face Detection, Face Detection, SiP), Face Detection, Face De	Smart				
Seneral Search, People Counting People Counting People Flow Counting, Crowd Density Monitoring Flowerition (SIP), Face Detection, Face Comparison, Vehicle Detection, Vehicle Detection, White Detection, White Mediatats, Traffic Monitoring by Camera  Seneral Alarm  Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion, Tampering, Human Body Detecton, Video Loss, Alarm Input, Audio Detection Recording/Snapshot Abnormal  External Interface  1 RI-45 10M/100M/1000M self-adaptive Ethernet Interface  1 RI-45 10M/100M/1000M self-adaptive Ethernet Interface  1 RI-45 10M/100M	· ·	Temperature Detection(Fire Detection, Smoking Detection, Temperature Measurement, Smoke and Fire Detection),			
Smart Intrusion Prevention (SIP), Face Detection, PAGE Detection, PAGE Detection, PAGE Detection, PAGE Metadata, Traffic Monitoring by Video Metadata, Traffic Munitoring by Control Metadata (Page Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection Recording/Snapshot Abnormal Recording/Snapshot Abnormal Reternal Interface  I RJ-45 10M/100M/1000M self-adaptive Ethernet Interface  I RJ-45 10M/100M/1000M self-adaptive Ethernet Interface  I RJ-45 10M/100M/1000M self-adaptive Ethernet Interface  I RJ-45 10M/100M/100M self-adaptive Ethernet Interface  I RJ-45 10M/100M self-adaptive Ethernet Interface  I R	VCA Search				
Prevention (SIP), Face betection, Face betection, Face comparison, Vehicle Detection, Juny, Video Metadata, Traffic Monitoring by Camera  General Alarm  Defous Detection, Seene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection  Alert Alarm  Defous Defocus Detection, Video Loss, Alarm Input, Audio Detection  Promitic, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal  External Interface  Network Interface  1 R1-45 10M/100M/1000M self-adaptive Ethernet Interface  USB Interface  Front: 1 x USB2.0, Rear panel: 1 x USB3.0  R5232  NA  R5485  1 Alarm In  8-ch  Alarm Out  2-ch  PoE  Titerface  8 R1-45 10M/100M self-adaptive Ethernet Interface  16 R1-45 10M/100M self-adaptive Ethernet Interface  Poewer  Max 30w for single port Max 240W in total  Supported Standard  Et E802.3af/at  General  Power Supply  100°240V AC Power Consumption: ≤ 20W (without HDD)  Working Environment  -01°C~4 55°C (+14°F~+131°F), Humidity ≤ 90% RH (non-condensing)  Dimensions (WrD-H)  380mm × 322mm × 53mm (15.0°×12.7°×2.1°)  Weight (without HDD)  Cettification  Cettification  Cettification  Cettification  Expect School Sch	People Counting	People Flow Counting, Crowd Density Monitoring			
General Alarm Defocus Detection, Scene Change Detection, Object Left Behind, Object Removed, Auto Tracking, Motion, Tampering, Human Body Detection, Video Loss, Alarm Input, Audio Detection  Alert Alarm IP Conflict, Network Disconnected, Disk Offline , Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal  External Interface  Network Interface 1 RJ-45 10M/100M/1000M self-adaptive Ethernet Interface  USB Interface Front: 1 x USB2.0, Rear panel: 1 x USB3.0  RS232 NA  RS485 1  Alarm In 8-ch  Alarm Out 2-ch  POE  Interface 8 RJ-45 10M/100M self-adaptive Ethernet Interface  Interface Brain Interface 1 a RJ-45 10M/100M self-adaptive Ethernet Interface  Interface Brain Interface 1 a RJ-45 10M/100M self-adaptive Ethernet Interface  Interface Brain Interface 1 a RJ-45 10M/100M self-adaptive Ethernet Interface  Interface Brain Interface 1 a RJ-45 10M/100M self-adaptive Ethernet Interface  Interface In	Prevention (SIP), Face Detection, Face Comparison, Vehicle Detection, UMD, Video Metadata, Traffic	Total 8-ch			
Human Body Detection, Video Loss, Alarm Input, Audio Detection	General Alarm				
Recording/Snapshot Abnormal           External Interface           Network Interface         1 RJ-45 10M/100M/1000M self-adaptive Ethernet Interface           USB Interface         Front: 1 x USB2.0, Rear panel: 1 x USB3.0           RS232         NA           RS485         1           Alarm In         8-ch           Alarm Out         2-ch           POE           Interface         8 RJ-45 10M/100M self-adaptive Ethernet Interface Ethernet Interface           Max Power         Max 30W for single port Max 130W in total         Max 30W for single port Max 240W in total           Supported Standard         IEEE 802.3af/at           General           Power Supply         100~240V AC Power Consumption: ≤ 20W (without HDD)           Working Environment         -10°C~+ 55°C (+14°F~+131°F), Humidity ≤ 90% RH (non-condensing)           Dimensions (W×D×H)         380mm × 322mm × 53mm (15.0"×12.7"×2.1")           Weight (without HDD)         \$2.6Kg (5.73ib)           Certification         CE, FCC, UL, RoHS, WEEE           CE         EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	General Alarm				
Network Interface   1 RJ-45 10M/100M/1000M self-adaptive Ethernet Interface    USB Interface   Front: 1 x USB2.0, Rear panel: 1 x USB3.0    RS232   NA    RS485   1    Alarm In   8-ch    Alarm Out   2-ch    POE	Alert Alarm				
USB Interface         Front: 1 x USB2.0, Rear panel: 1 x USB3.0           RS232         NA           RS485         1           Alarm In         8-ch           Alarm Out         2-ch           PoE           Interface         8 RJ-45 10M/100M self-adaptive Ethernet Interface Ethernet Interface           Max Power         Max 30W for single port Max 130W in total         Max 240W in total           Supported Standard         IEEE 802.3af/at           General         100~240V AC Power Consumption: ≤ 20W (without HDD)           Working Environment         -10*C~+ 55*C (+14*F~+131*F), Humidity ≤ 90% RH (non-condensing)           Dimensions (W~D×H)         380mm × 322mm × 53mm (15.0*×12.7*×2.1*)           Weight (without HDD)         ≤ 2.6Kg (5.73lb)           Certification         CE, FCC, UL, RoHS, WEEE           CE         EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	External Interface				
RS232         NA           RS485         1           Alarm In         8-ch           Alarm Out         2-ch           POE           Interface         8 RJ-45 10M/100M self-adaptive Ethernet interface Ethernet interface         16 RJ-45 10M/100M self-adaptive Ethernet interface           Max Power         Max 30W for single port Max 30W for single port Max 240W in total         Max 240W in total           Supported Standard         IEEE 802.3af/at           General           Power Supply         100°240V AC Power Consumption: ≤ 20W (without HDD)           Working Environment         -10°C~+ 55°C (+14°F~+131°F), Humidity ≤ 90% RH (non-condensing)           Dimensions (W×D×H)         380mm × 322mm × 53mm (15.0°×12.7"×2.1")           Weight (without HDD)         ≤ 2.6Kg (5.73lb)           Certification           Certification         CE, FCC, UL, RoHS, WEEE           Ce         EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	Network Interface	1 RJ-45 10M/100M/1000M self-adaptive Ethernet Interface			
RS485   1	USB Interface	Front: 1 x USB2.0, Rear panel: 1 x USB3.0			
Alarm In 8-ch  Alarm Out 2-ch  POE  Interface 8 RJ-45 10M/100M self-adaptive Ethernet Interface Ethernet Interface	RS232	NA NA			
Alarm Out 2-ch  PoE  Interface 8 RJ-45 10M/100M self-adaptive Ethernet Interface 16 RJ-45 10M/100M self-adaptive Ethernet Interface 8 Ax 30W for single port Max 30W for single port Max 130W in total 1 Max 240W in total 2 Max 2	RS485	1			
PoE  Interface 8 R R - 45 1 0 M / 100 M self-adaptive Ethernet Interface Ethernet Interface	Alarm In	8-ch			
Interface  8 R J-45 10M/100M self-adaptive Ethernet Interface  Max 30W for single port Max 30W for single port Max 240W in total  Supported Standard  General  Power Supply  100~240V AC Power Consumption: ≤ 20W (without HDD)  Working Environment  -10°C~+ 55°C (+14°F~+131°F), Humidity ≤ 90% RH (non-condensing)  Dimensions (W×D×H)  Weight (without HDD)  \$ 2.6Kg (5.73lb)  Certification  CE, FCC, UL, ROHS, WEEE  CE  EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	Alarm Out	2-ch			
Interface Ethernet Interface 16 RJ-45 10M/100M self-adaptive Ethernet Interface   Max 90w for single port Max 130W in total Max 30W for single port Max 240W in total   Supported Standard IEEE 802.3af/at   General   Power Supply 100~240V AC Power Consumption: ≤ 20W (without HDD)   Working Environment -10°C~+ 55°C (+14°F~+131°F), Humidity ≤ 90% RH (non-condensing)   Dimensions (W×D×H) 380mm × 322mm × 53mm (15.0"×12.7"×2.1")   Weight (without HDD) ≤ 2.6Kg (5.73lb)   Certification   CE, FCC, UL, RoHS, WEEE   EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	PoE				
Max Power         Max 130W in total         Max 240W in total           Supported Standard         IEEE 802.3af/at           General           Power Supply         100~240V AC Power Consumption: ≤ 20W (without HDD)           Working Environment         -10°C~+ 55°C (+14°F~+131°F), Humidity ≤ 90% RH (non-condensing)           Dimensions (W×D×H)         380mm × 322mm × 53mm (15.0"×12.7"×2.1")           Weight (without HDD)         ≤ 2.6Kg (5.73lb)           Certification           Certification         CE, FCC, UL, RoHS, WEEE           CE         EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	Interface		16 RJ-45 10M/100M self-adaptive Ethernet Interface		
General  Power Supply  100~240V AC Power Consumption: ≤ 20W (without HDD)  Working Environment  -10°C~+ 55°C (+14°F~+131°F), Humidity ≤ 90% RH (non-condensing)  Dimensions (W×D×H)  380mm × 322mm × 53mm (15.0"×12.7"×2.1")  Weight (without HDD)  Certification  Certification  CE, FCC, UL, RoHS, WEEE  EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	Max Power				
Power Supply  100~240V AC Power Consumption: ≤ 20W (without HDD)  Working Environment  -10°C~+ 55°C (+14°F~+131°F), Humidity ≤ 90% RH (non-condensing)  Dimensions (W×D×H)  380mm × 322mm × 53mm (15.0"×12.7"×2.1")  Weight (without HDD)  ≤ 2.6Kg (5.73lb)  Certification  Certification  CE, FCC, UL, RoHS, WEEE  CE  EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	Supported Standard	IEEE 802.3af/at			
Power SupplyPower Consumption: ≤ 20W (without HDD)Working Environment $-10^{\circ}\text{C}^{\sim}+55^{\circ}\text{C}$ (+ $14^{\circ}\text{F}^{\sim}+131^{\circ}\text{F}$ ), Humidity ≤ 90% RH (non-condensing)Dimensions (W×D×H) $380\text{mm} \times 322\text{mm} \times 53\text{mm}$ (15.0"×12.7"×2.1")Weight (without HDD)≤ 2.6Kg (5.73lb)CertificationCertificationCE, FCC, UL, RoHS, WEEECEEN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	General				
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Weight (without HDD)       ≤ 2.6Kg (5.73lb)         Certification         Certification       CE, FCC, UL, RoHS, WEEE         CE       EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	Working Environment	-10°C~+ 55°C (+14°F~+131°F), Humidity ≤ 90% RH (non-condensing)			
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Certification         CE, FCC, UL, RoHS, WEEE           CE         EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	Weight (without HDD)	≤ 2.6Kg (5.73lb)			
CE EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	Certification				
	Certification	CE, FCC, UL, RoHS, WEEE			
FCC Part15 Subpart B	CE	EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035			
	FCC	Part15 Subpart B			

### **Dimensions**





### Rear Panel

8CH NVR shown from this series same layout 16 port.

