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# Comparison for GV-SNVR0412 / 0812 / 1600 / 1611 / 1612

| Model | | GV-SNVR0412 | GV-SNVR0812 | SNVR1600 | GV-SNVR1611 | GV-SNVR1612 |
|---|---|---|---|---|---|---|
| **System** | | | | | | |
| OS | | Embedded Linux | | | | |
| No. of Drive Bay | | 1 (3.5” HDD) | | 2 (3.5” HDD) | | |
| Power Source | | Input: AC 100 ~ 240 V, 50 ~ 60 Hz Output: DC 48 V, 1.35 A, Max. 65 W | Input: AC 100 ~ 240V, 50 ~ 60 Hz Output: DC 52V, 1.8A, Max. 100W | Input: AC 100 ~ 230V, 50 ~ 60 Hz Output: Max. 100 W | Input: AC 100 ~ 240V,50 ~ 60 Hz Output: DC 52V, 4.6A, Max. 280W | Input: AC 100 ~ 240V, 50 ~ 60 Hz Output: DC 48V, 3.75A, Max. 180W |
| **Mechanical** | | | | | | |
| Connector | Gigabit Ethernet | N/A | | 2 ports, RJ-45 | 1 port for WAN, RJ-45 | |
| | Megabit Ethernet | 1 port for WAN, RJ-45 10/100 Mbps, 4 ports for LAN, RJ-45 10/100 Mbps, PoE+ (IEEE 802.3at) | 1 port for WAN, RJ-45 10/100 Mbps, 8 ports for LAN, RJ-45 10/100 Mbps, PoE+ (IEEE 802.3at) | N/A | 16 ports for LAN, RJ-45, PoE+ (IEEE802.3at) | 16 ports for LAN, RJ-45, PoE (IEEE 802.3af) |
| | Video | HDMI and VGA | | HDMI and D-Sub | HDMI and VGA | |
| | Audio | RCA (2.0 Vp-p, 1 kΩ) for a speaker and microphone | | 1 stereo jack for speaker | RCA (2.0 Vp-p, 1 kΩ) for a speaker and microphone | |
| | USB | Front: USB 2.0 Port; Rear: USB 2.0 Port x 2 | | Front: 2.0 port, Rear: 2.0 port x 4 | Front: 2.0 port, Rear: 3.0 port | Front / Rear: 2.0 port |
| | I/O | 4 Inputs, 1 Output | | N/A | 4 Inputs, 1 Output | 8 Inputs, 1 Output |
| PoE ports Bridged to SNVR’s LAN/WAN | | No | | Yes | | No |
| LED Indicator | | 4 LEDs: Power, Network, HDD Fail, HDD Activity | | 5 LEDs: Power, LAN, WAN, HDD Status, HDD Error | 4 LEDs: Power, HDD Error, HDD1, HDD2 | 2 LEDs: Power, HDD Fail |
| Operating Temperature | | 0°C ~ 50°C (32°F ~ 122°F) | | 0°C ~ 40°C (32°F ~ 104°F) | 0°C ~ 50°C (32°F ~ 122°F) | 0°C ~ 40°C (32°F ~ 104°F) |
| Humidity | | 0% ~ 90% RH (non-condensing) | | 0% ~ 80% RH (non-condensing) | 0% ~ 90% RH (non-condensing) | |



| Model | GV-SNVR0412 | GV-SNVR0812 | GV-SNVR1600 | GV-SNVR1611 | GV-SNVR1612 |
|---|---|---|---|---|---|
| Dimensions (L x W x H) | 260 x 240 x 44 mm (10.24 x 9.45 x 1.73 in) | | 424.6 x 445 x 43.8 mm (16.72 x 17.52 x 1.72 in) | 380 x 315 x 46 mm (15 x 12.4 x 1.8 in) | 380 x 340 x 50 mm (15 x 13.4 x 2") |
| Net Weight | 1.12 kg (2.47 lb) | | 4.1 kg (9.04 lb) | 2.48 kg (5.47 lb) | |
| Certification | FCC, CE, BSMI, LVD, RoHS compliant | | FCC, CE, RCM, RoHS compliant | FCC, CE, BSMI, PSE, RoHS compliant | FCC, CE, PSE, LVD, RoHS compliant |
| **Video and Audio** | | | | | |
| Video Stream | Dual streams from H.264 / H.265 | | Dual streams from H.264 | Dual streams from H.264 / H.265 | |
| Video Resolution | Up to 3840 × 2160 per channel | | Up to 2592 x 1944 for the first channel; Up to 1920 x 1080 per channel | Up to 4000 × 3000 per channel | Up to 3840 x 2160 per channel |
| Video Output | 4K (HDMI), 1080p (HDMI / VGA) | | 1080p (HDMI / VGA) | 4K (HDMI), 1080p (HDMI / VGA) | |
| Audio Codec | G.711 | | | | |
| Audio Support | Two-way | | One-way | Two-way | |
| Fisheye Dewarping | Up to 2176 x 2048 for 1 channel at a time | | N/A | | |
| **Decoding** | | | | | |
| Frame Rate | 8 MP for 1 division, up to 20 fps/CH<br><br>2 MP for 4 divisions, up to 30 fps/CH, 120 fps in total | 8 MP for 1 division, up to 20 fps/CH<br><br>2 MP for 4 divisions, up to 30 fps/CH, 120 fps in total<br><br>720P for 8 divisions, up to 30 fps/CH, 240 fps in total | - | - | 8 MP for 1 division, up to 20 fps/CH<br><br>2 MP for 4 divisions, up to 30 fps/CH, 120 fps in total<br><br>720P for 8 divisions, up to 30 fps/CH, 240 fps in total<br><br>VGA for 16 divisions, up to 30 fps/CH, 480 fps in total |
| Playback | 4 CH max. | 8 CH max. | - | - | 16 CH max. |



| Model | | GV-SNVR0412 | GV-SNVR0812 | SNVR1600 | GV-SNVR1611 | GV-SNVR1612 |
|---|---|---|---|---|---|---|
| **Operation** | | | | | | |
| Max. Bandwidth | | Max. 24 Mbps | Max. 48 Mbps | Max. 100 Mbps | Max. 320 Mbps | Max. 96 Mbps |
| | | **Note:** The maximum bandwidth for GV-SNVR0412 / 0812 / 1612 is 6 Mbps for each channel (main stream + sub stream). | | | | |
| Recording Mode | | Round the clock, Motion Detection, Schedule Recording, Alarm-triggered Recording | | Round the clock, Motion Detection, Schedule Recording | Round the clock, Motion Detection, Schedule Recording, Alarm-triggered Recording | |
| Pre Recording | | 1 ~ 10 sec. | | | | 1 ~ 5 sec. |
| Post Recording | | 30 sec. | | | | 1 ~ 5 sec. |
| Display Divisions | | 1 / 4 | 1 / 4 / 6 / 8 / 9 | 1 / 4 / 9 / 16 | 1 / 4 / 6 / 8 / 9 / 16 | |
| Instant Playback | | 3 min. | | | | |
| Backup Type | | USB flash drive of FAT32 format | | | | |
| **Management** | | | | | | |
| Language | | Czech, English, Finnish, French, German, Hungarian, Italian, Japanese, Portuguese, Russian, Slovakian, Slovenian, Spanish, Traditional Chinese | | Czech, English, French, German, Hungarian, Italian, Japanese, Portuguese, Russian, Slovakian, Slovenian, Spanish, Traditional Chinese | Czech, English, Finnish, French, German, Hungarian, Italian, Japanese, Portuguese, Russian, Slovakian, Slovenian, Spanish, Traditional Chinese | |
| **Network** | | | | | | |
| Network Type | | LAN, WAN, Internet | | | | |
| Protocol | | DHCP, DynDNS, HTTP, NTP, ONVIF, RTSP, TCP, UDP | | DHCP, DynDNS, HTTP, NTP, TCP, UDP | DHCP, DynDNS, HTTP, NTP, ONVIF, RTSP, TCP, UDP | |
| **System Monitoring and Recovery** | | | | | | |
| Power Restoration | | Automatic restart after power outage | | | | |
| Monitoring | | Software Watchdog | | | | |
| **Remote Monitoring** | | | | | | |
| Monitoring Environment | | IE browser, SNVR Viewer for non-IE browsers, Mobile app | | | | |
| Live View | | Max. 10 channel connections | Max. 18 channel connections | Max. 34 channel connections | Max. 51 channel connections | Max. 34 channel connections |
| Playback | PC-Based Software | Max. 4 channel connections | Max. 8 channel connections | Max. 16 channel connections | Max. 16 channel connections | Max. 16 channel connections |
| | Mobile App | Max. 1 channel connection<br>*For GV-SNVR0412 / 0812 / 1611, max 2 channel connections | | | | |

# Comparison for GV-SNVR3203 / 6403 and GV-TNVR1620-P

| Model | | GV-SNVR3203 | GV-SNVR6403 | GV-TNVR1620-P |
|---|---|---|---|---|
| **System** | | | | |
| OS | | Embedded Linux | | |
| No. of Drive Bay | | 4 (3.5” HDD) | 8 (3.5” HDD) | 2 (3.5” HDD) |
| Power Source | | Input: AC 100 ~ 240 V, 50 ~ 60 Hz | | |
| **Mechanical** | | | | |
| Connector | Gigabit Ethernet | 2 ports, RJ-45 10/100/1000 Mbps | | 1 port, RJ-45 10/100/1000 Mbps |
| | Megabit Ethernet | N/A | | |
| | Video | HDMI and VGA | | |
| | Audio | RCA (2.0 Vp-p, 1 kΩ) for a speaker and microphone | | |
| | USB | Front: USB 2.0 x 2;<br>Rear: USB 3.0 x 1 | | Front: USB 2.0 x 1<br>Rear: USB 3.0 x 1 |
| | I/O | 16 Inputs, 4 Outputs | | 8 inputs, 2 outputs |
| LED Indicator | | 6 LEDs: RUN, NET, GUARD, HD, ALM, CLOUD (not functional) | | 4 LEDs: RUN, NET, HD, CLOUD (not functional) |
| Operating Temperature | | -10°C ~ 55°C (14°F ~ 131°F) | | |
| Humidity | | 0% ~ 90% RH (non-condensing) | | 0% ~ 90% RH (non-condensing) |
| Dimensions (L x W x H) | | 442 mm x 426 mm x 89 mm (17.4” x 16.8” x 3.5”) | | 380 x 322 x 53 mm<br>(15” x 12.7” x 2.1”) |
| Net Weight | | 5.7 kg (12.57 lb) | | 2.7 kg (6.0 lb) |
| Certification | | FCC, CE, BSMI, RoHS compliant | | CE, FCC, LVD, UKCA, BSMI, RoHS compliant |
| **Video and Audio** | | | | |
| Video Stream | | Dual streams from H.264 / H.265 | | |
| Video Resolution | | Up to 4000 x 3000 per channel | | |
| Video Output | | 4K (HDMI), 1080p (HDMI / VGA) | | |

| Model | | GV-SNVR3203 | GV-SNVR6403 | GV-TNVR1620-P |
|---|---|---|---|---|
| Audio Compression | | G.711 | | |
| Audio Support | | Two-way | | |
| Fisheye Dewarping [2] | | Up to 2560 x 1960 for 3 channels at a time | | Up to 2560 x 1960 for 1 channel |
| **Decoding** | | | | |
| Frame Rate | Main | - 12 MP: up to 30 fps/CH, 60 fps in total (2 CH max.)<br>- 8 MP: up to 30 fps/CH, 120 fps in total (4 CH max.)<br>- 5 MP: up to 30 fps/CH, 180 fps in total (6 CH max.)<br>- 4 MP: up to 30 fps/CH, 240 fps in total (8 CH max.)<br>- 4 MP: up to 25 fps/CH, 225 fps in total (9 CH max.)<br>- 1080P: up to 30 fps/CH, 480 fps in total (16 CH max.)<br>- 960P: up to 25 fps/CH, 800 fps in total (32 CH max.) | - 12 MP: up to 30 fps/CH, 60 fps in total (2 CH max.)<br>- 8 MP: up to 30 fps/CH, 120 fps in total (4 CH max.)<br>- 5 MP: up to 30 fps/CH, 180 fps in total (6 CH max.)<br>- 4 MP: up to 30 fps/CH, 240 fps in total (8 CH max.)<br>- 4 MP: up to 25 fps/CH, 225 fps in total (9 CH max.)<br>- 1080P: up to 30 fps/CH, 480 fps in total (16 CH max.)<br>- 960P: up to 25 fps/CH, 800 fps in total (32 CH max.)<br>- 720P: up to 30 fps/CH, 1080 fps in total (36 CH max.)<br>- D1: up to 30 fps/CH, 1920 fps in total (64 CH max.) | - 12 MP: 60 fps in total (2 CH max.)<br>- 8 MP: 60 fps in total (2 CH max.)<br>- 4 MP: 120 fps in total (4 CH max.)<br>- 1080P: 300 fps in total (10 CH max.)<br>- 720P: 480 fps in total (16 CH max.) |
| | Sub | 720P: up to 30 fps/CH, 960 fps in total (32 CH max.) | - 720P: up to 30 fps/CH, 1080 fps in total (36 CH max.) [1]<br>- D1: up to 30 fps/CH, 1920 fps in total (64 CH max.) | 720P: up to 30 fps/CH, 480 fps in total (16 CH max.) |
| Playback | | 16 CH max. | | |
| **Operation** | | | | |
| Max. Bandwidth | | Input: 384 Mbps<br>Output [3]: 384 Mbps | | Input: 160 Mbps<br>Output [3]: 128 Mbps |
| Recording Mode | | Normal, Motion Detection, Alarm Input, Alarm Output, Manual Alarm, Audio Alarm Duration, Schedule Recording, Event recording, Snapshot, Manual recording | | |
| Pre Recording | | 0 ~ 60 sec. | | |
| Post Recording | | 5 ~ 600 sec. | | |
| Instant Playback | | 5 min. and 30 sec. | | 5 min. |
| Backup Type | | USB flash drive of FAT32 or NTFS format | | |
| Display Division | Corridor | 3 / 4 / 5 / 7 / 9 / 10 / 12 / 16 / 32 | | 3 / 4 / 5 / 7 / 9 / 10 / 12 / 16 |
| | Multi-Window | 4 / 6 / 8 / 9 / 16 / 25 / 36 | 4 / 6 / 8 / 9 / 16 / 25 / 36 / 64 | 1 / 4 / 6 / 8 / 9 / 16 |

| Model | GV-SNVR3203 | GV-SNVR6403 | GV-TNVR1620-P |
|---|---|---|---|
| **Management** | | | |
| Language | Czech, English, French, German, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Traditional Chinese | | |
| **Network** | | | |
| Protocol | 802.1x, ARP, HTTPS, DHCP, IPv4, PPPoE, DDNS, FTP, HTTP, RTSP, UPnP, SMTP, SNMP, DNS, ICMP, IGMP, NTP, QoS, RTCP, RTSP, RTP, TCP, UDP | | 802.1x, DDNS, DHCP, DNS, HTTP, HTTPS, IPv4/IPv6, NTP, PPPoE, RTSP, SMTP, SNMP |
| **Remote Monitoring** | | | |
| Monitoring Environment | IE browser, non-IE browsers (Chrome, Edge, Firefox), Mobile app | | |
| **AI Integration** | | | |
| AI Analytics Support | No | | Face Recognition, Perimeter Protection, People and Vehicle Detection |

**Note:**

1. The default sub stream for the following models is **over 720P**; to show the max. 64 channels from these models, you need to lower the sub stream resolution: GV-BX2802, GV-BX4802, GV-BX12201, GV-QFER12700, GV-FER12700, UA-R560F2, UA-R580F2, UA-B580F3, UA-R500F2, and UA-R800F2.
2. GV-SNVR3203/6403 and GV-TNVR1620-P support fisheye dewarping only for **GV-FER5702**.
3. The maximum number of remote connections depends on the **total output bandwidth** of the SNVR. To find the output bandwidth data, see the technical notice.
4. Specifications are subject to change without notice.

# Comparison for GV-RNVRL810-P / 3240-N / 256G0-N

| Model | | GV-RNVR256G0-N | GV-RNVR3240-N | GV-RNVRL810-P |
|---|---|---|---|---|
| **System** | | | | |
| OS | | Embedded Linux | | |
| No. of Drive Bay | | 16 (3.5” HDD) | 4 (3.5” SATA HDD) | 1 (3.5” SATA HDD) |
| Power Source | | Input: AC 100 ~ 240 V, 50 ~ 60 Hz | Input: AC 100 ~ 240 V, 50 ~ 60 Hz<br>Output: 12 V DC, Max. 72 W | Input: AC 100 ~ 240 V, 50 ~ 60 Hz<br>Output: DC 48 V, 1.5 A<br>PoE Switch: 58 W |
| **Mechanical** | | | | |
| Connector | Gigabit Ethernet | 2 ports, RJ-45 100/1000 Mbps | | 1 port, RJ-45 10/100 Mbps |
| | Megabit Ethernet | N/A | | |
| | Video | HDMI x 4 | VGA x 1, HDMI x 2 | VGA x 1, HDMI x 1 |
| | Audio | RCA (2.0 Vp-p, 1 kΩ) for a speaker and microphone | RCA (2.0 Vp-p, 1 kΩ) for a speaker and microphone | RCA (2.0 Vp-p, 1 kΩ) for a speaker and microphone |
| | USB | Front: USB 2.0 Port x 1;<br>Rear: USB 3.0 Port x 2 | Front: USB 2.0 x 1<br>Rear: USB 3.0 x 1, USB 2.0 x 1 | Front: USB 2.0 Port x 1;<br>Rear: USB 2.0 Port x 1 |
| | I/O | 16 Inputs, 4 Outputs | 16 Inputs, 1 Output | 8 Inputs, 1 Output |
| LED Indicator | | 4 LEDs: RUN, HDD, LAN x 2 | 2 LEDs: Power, HDD | 2 LEDs: Power, HDD |
| Operating Temperature | | -10°C ~ 55°C (14°F ~ +131°F) | | |
| Humidity | | 0% ~ 90% RH (non-condensing) | | |
| Dimensions (L x W x H) | | 439 x 466.1 x 149 mm<br>(17.28” x 18.35” x 5.8”) | 378 x 333.7 x 68 mm<br>(14.88” x 13.14” x 2.68”) | 300 x 215.3 x 52.5 mm<br>(11.8” x 8.4” x 2”) |
| Net Weight | | 9.3 kg (20.5 lb) | 2.26 kg (4.99 lb) | 1.08 kg (2.38 lb) |
| Certification | | CE, FCC, LVD, RoHS compliant | CE, FCC, LVD, UKCA, BSMI, RoHS compliant | CE, FCC, LVD, BSMI, RoHS compliant |
| **Video and Audio** | | | | |
| Video Stream | | Dual streams from H.264 / H.265 | | |

| Model | GV-RNVR256G0-N | GV-RNVR3240-N | GV-RNVRL810-P |
|---|---|---|---|
| **Video and Audio** | | | |
| Video Resolution | Up to 4000 x 3000 per channel | Up to 4000 x 3000 per channel | Up to 3840 x 2160 per channel |
| Video Output | 8K (HDMI) | 4K (HDMI) | 4K (HDMI) |
| Audio Compression | G.711 | | |
| Audio Support | Two-way | | |
| Fisheye Dewarping (1) | Up to 1 channel at a time | N/A | |
| **Decoding** | | | |
| Frame Rate | 12 MP: 150 fps in total (5 CH max.)<br>8 MP: 240 fps in total (8 CH max.)<br>5 MP: 390 fps in total (13 CH max.)<br>4 MP: 480 fps in total (16 CH max.)<br>2 MP: 960 fps in total (32 CH max.)<br>720p: 2160 fps in total (72 CH max.)<br>480p: 4560 fps in total (152 CH max.) | **HDMI 1**<br>12 MP: 60 fps in total (2 CH max.)<br>8 MP: 120 fps in total (4 CH max.)<br>5 MP: 180 fps in total (6 CH max.)<br>4 MP: 240 fps in total (8 CH max.)<br>3 MP: 330 fps in total (11 CH max.)<br>2 MP: 480 fps in total (16 CH max.)<br>720p: 960 fps in total (32 CH max.)<br>**HDMI 1 + HDMI 2**<br>12 MP: 60 fps in total (2 CH max.)<br>8 MP: 90 fps in total (3 CH max.)<br>5 MP: 150 fps in total (5 CH max.)<br>4 MP: 180 fps in total (6 CH max.)<br>3 MP: 240 fps in total (8 CH max.)<br>2 MP: 360 fps in total (12 CH max.)<br>720p: 840 fps in total (28 CH max.) | 8 MP: 30 fps in total (1 CH max.)<br>5 MP: 60 fps in total (2 CH max.)<br>4 MP: 90 fps in total (3 CH max.)<br>2 MP: 180 fps in total (6 CH max.)<br>720p: 240 fps in total (8 CH max.) |
| Playback | 16 CH max. | | 4 CH max. |

| Model | GV-RNVR256G0-N | GV-RNVR3240-N | GV-RNVRL810-P |
|---|---|---|---|
| **Operation** | | | |
| Max. Bandwidth | Input: 1024 Mbps;<br>Output [2]: 800 Mbps | Input: 320 Mbps;<br>Output [2]: 320 Mbps | Input: 76 Mbps;<br>Output [2]: 32 Mbps |
| Recording Mode | Normal, Motion Detection, Alarm Input, Alarm Output, Manual Alarm, Audio Alarm Duration, Schedule Recording, Event recording, Snapshot, Manual recording | | |
| Pre Recording | 0 ~ 60 sec. | | |
| Post Recording | 5 ~ 300 sec. | | |
| Instant Playback | 5 min. | | |
| Backup Type | USB flash drive | | |
| **Management** | | | |
| Language | **Local:** Arabic, Bulgarian, Traditional Chinese, Danish, English, German, Spanish, French, Japanese, Italian, Portuguese, Russian, Turkish, Finnish, Greek, Hebrew, Hindi, Korean, Persian, Polish, Romanian, Thai<br>**Web**: English, German, Spanish, French, Japanese, Italian, Portuguese, Russian, Turkish, Traditional Chinese | | |
| **Network** | | | |
| Protocol | 802.1x, DHCP, IPv4/IPv6, DynDNS, HTTP, HTTPS, NTP, RTSP, TCP, SNMP, UDP | 802.1x, DHCP, IPv4/IPv6, DynDNS, HTTP, HTTPS, NTP, RTSP, TCP, SNMP, UDP | DHCP, IPv4/IPv6, DynDNS, HTTP, HTTPS, NTP, RTSP, TCP, SNMP, UDP |
| **System Monitoring and Recovery** | | | |
| Power Restoration | Automatic restart after power outage | | |
| **Remote Monitoring** | | | |
| Monitoring Environment | IE browser, non-IE browsers (Chrome, Edge, Firefox, Safari), Mobile app | | |

**Note:**

1. Only **GV-RNVR256G0-N** supports fisheye dewarping. GV-RNVRL810-P / RNVR3240-N does not support fisheye dewarping.
2. The maximum number of remote connections depends on the **total output bandwidth** of the SNVR. To find the output bandwidth data, see the **maximum output bandwidth** column above.
3. Specifications are subject to change without notice.

# Comparison for GV-GNVRC0810-P / 1620-P

| Model | | GV-GNVRC0810-P | GV-GNVRC1620-P |
|---|---|---|---|
| | | **System** | |
| OS | | Embedded Linux | |
| No. of Drive Bay | | 1 (3.5” HDD) | 2 (3.5” HDD) |
| Power Source | | Input: AC 100 ~ 240 V, 50 ~ 60 Hz | |
| | | **Mechanical** | |
| Connector | Gigabit Ethernet | 1 port, RJ-45 10/100/1000 Mbps | |
| | Megabit Ethernet | N/A | |
| | Video | HDMI and VGA | |
| | Audio | RCA (2.0 Vp-p, 1 kΩ) for a speaker and microphone | |
| | USB | Front: USB 2.0 x 1<br>Rear: USB 2.0 x 1 | Front: USB 2.0 x 1<br>Rear: USB 3.0 x 1, USB 2.0 x 1 |
| | RS-485 | N/A | 1 (for PTZ) |
| | I/O | N/A | 8 Inputs, 4 Outputs |
| LED Indicator | | 3 LEDs: REC, NET, PWR | |
| Operating Temperature | | -10°C ~ 50°C (14°F ~ 122°F) | |
| Humidity | | 0% ~ 90% RH (non-condensing) | |
| Dimensions (L x W x H) | | 300 x 249.4 x 45 mm (11.81 x 9.82 x 1.77 in) | 380 x 268.5 x 45 mm (14.96 x 10.57 x 1.77 in) |
| Net Weight | | 1.08 kg (2.38 lb) | 2.7 kg (5.95 lb) |
| Certification | | CE, FCC, LVD, RoHS compliant | |
| | | **Video and Audio** | |
| Video Stream | | Dual streams from H.264 / H.265 | |
| Video Resolution | | Up to 3840 x 2160 per channel | |
| Video Output | | 4K (HDMI), 1080p (HDMI / VGA) | |
| Audio Compression | | G.711 | |
| Audio Support | | Two-way | |
| Fisheye Dewarping (1) | | N/A | Up to 1 channel at a time |
| | | **Decoding** | |
| Frame Rate | Main | 8 MP @ 30 fps x 1 CH<br>4 MP @ 30 fps x 4 CH<br>720P @ 30 fps x 8 CH | 16 MP @ 30 fps x 1 CH<br>8 MP @ 30 fps x 4 CH<br>3 MP @ 30 fps x 9 CH<br>2 MP @ 30 fps x 16 CH |
| | Sub | 720P @ 30 fps x 8 CH | 720P @ 30 fps x 16 CH |
| Playback | | 8 CH max. | 16 CH max. |



| | | | |
|---|---|---|---|
| | | **Operation** | |
| Max. Bandwidth | | Input: 80 Mbps<br>Output: 80 Mbps | Input: 160 Mbps<br>Output: 128 Mbps |
| Recording Mode | | Round the Clock, Motion Detection, Alarm Input, AI Event-Triggered Recording, POS Recording, Schedule Recording | |
| Pre Recording | | 3 / 5 / 10 / 15 / 30 sec. (Default: 5 sec.) | |
| Post Recording | | 5 / 10 / 30 sec., 1 / 2 / 5 / 10 min. (Default: 30 sec.) | |
| Instant Playback | | 5 / 10 / 30 sec. ago, 1 / 5 min. ago, Customization | |
| Backup Type | | USB flash drive of FAT32 or NTFS format | |
| Display Division | Multi-Window | 1 / 4 / 6 / 8 / 9 | 1 / 4 / 6 / 8 / 9 / 13 / 16 |
| | | **Management** | |
| Language | | Arabic, Bulgarian, Chinese Traditional, Croatian, Czech, Dutch, English, French, German, Greek, Hungarian, Italian, Japanese, Korean, Lithuanian (Lithuania), Macedonian, Persian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Spanish (Latin America), Thai, Turkish, Ukrainian, Uzbek, Vietnamese | |
| | | **Network** | |
| Protocol | | 802.1X authentication (EAP-TLS, EAP-MD5), DDNS, DHCP, FTP, HTTP, HTTPS, IPv4, IPv6, PPPoE, RTCP, RTP, RTSP, SMTP, SNMP, UDP, UPnP | |
| | | **Remote Monitoring** | |
| Monitoring Environment | | non-IE browsers (Chrome, Edge, Firefox, Safari), Mobile app | |
| | | **AI Integration** | |
| AI Analytics Support | | Face Detection, Perimeter Protection | Face Detection, Face Recognition, Perimeter Protection |
| | | **Application** | |
| Remote Connection | | Up to 3 simultaneous remote client connections, with max. 24-channel Live View across all clients | Up to 2 simultaneous remote client connections, with max. 24-channel Live View across all clients |

**Note:**

1. Fisheye Dewarping:
   - For GV-GNVRC0810-P, local fisheye dewarping is not supported.
   - For GV-GNVRC1620-P, local and Web fisheye dewarping both support dewarped display for only 1 channel at a time.
2. Specifications are subject to change without notice.

# Supported Resolution for GV-SNVR0412 / 0812 / 1600 / 1611 / 1612

Main Stream and Sub Stream resolutions for compatible IP cameras must both fulfill the following specifications.

| **Camera Resolution** | **GV-SNVR0412 / 0812** | |
|---|---|---|
| **Stream** | **Main Stream** | **Sub Stream** |
| 4:3 | 2592 x 1944 | 1024 x 768, 960 x 720, 640 x 480, 320 x 240 |
| | 2560 x 2048 | |
| | 2560 x 1920 | |
| | 2048 x 1536 | |
| | 2048 x 1520 | |
| | 1600 x 1200 | |
| | 1280 x 960 | |
| | 640 x 480 | 640 x 480, 320 x 240 |
| | 320 x 240 | 320 x 240 |
| 16:9 (Default) | 3840 x 2160 | 1280 x 720, 640 x 360, 448 x 252 |
| | 2592 x 1520 | |
| | 2560 x 1440 | |
| | 2304 x 1296 | |
| | 1920 x 1080 | |
| | 1280 x 720 | |
| | 640 x 360 | 640 x 360, 448 x 252 |
| | 448 x 252 | 448 x 252 |
| 5:4 | 1280 x 1024 | 1280 x 1024, 640 x 512, 320 x 256 |
| | 640 x 512 | 640 x 512, 320 x 256 |
| | 320 x 256 | 320 x 256 |
| 20:19<br>(Fisheye Camera Only) | 2176 x 2048 | 640 x 608 |
| | 2048 x 1944 | |
| | 1792 x 1696 | |
| | 1440 x 1376 | |
| | 1280 x 1200 | |



| Camera Resolution | | GV-SNVR1600 | |
|---|---|---|---|
| **Stream** | | **Main Stream** | **Sub Stream** |
| 4:3 | CH1 | 2560 x 1920 | 640 x 480, 320 x 240 |
| | | 2048 x 1536 | |
| | | 2048 x 1520 | |
| | | 1600 x 1200 | |
| | | 1280 x 960 | |
| | | 640 x 480 | |
| | | 320 x 240 | 320 x 240 |
| | CH2~CH16 | 1600 x 1200 | 640 x 480, 320 x 240 |
| | | 1280 x 960 | |
| | | 640 x 480 | |
| | | 320 x 240 | 320 x 240 |
| 16:9 (Default) | CH1 | 2592 x 1520 | 640 x 360, 448 x 252 |
| | | 2560 x 1440 | |
| | | 2304 x 1296 | |
| | | 1920 x 1080 | |
| | | 1280 x 720 | |
| | | 640 x 360 | |
| | | 448 x 252 | 448 x 252 |
| | CH2~CH16 | 1920 x 1080 | 640 x 360, 448 x 252 |
| | | 1280 x 720 | |
| | | 640 x 360 | |
| | | 448 x 252 | 448 x 252 |
| 5:4 | CH1~CH16 | 1280 x 1024 | 640 x 512, 320 x 256 |
| | | 640 x 512 | |
| | | 320 x 256 | 320 x 256 |
| 20:19 (Fisheye Camera Only) | CH1 | 2048 x 1944 | 640 x 608 |
| | | 1792 x 1696 | |
| | | 1440 x 1376 | |
| | | 1280 x 1200 | |

| Camera Resolution | GV-SNVR1611 | |
|---|---|---|
| **Stream** | **Main Stream** | **Sub Stream** |
| 4:3 | 4000 x 3000 | 1280 x 1200, 1024 x 768, 960 x 720, 640 x 480, 320 x 240 |
| | 2592 x 1944 | |
| | 2560 x 1920 | |
| | 2048 x 1536 | |
| | 1600 x 1200 | |
| | 1280 x 960 | |
| | 640 x 480 | |
| 16:9 (Default) | 3840 x 2160 | 1280 x 720, 640 x 360, 448 x 256 |
| | 2592 x 1520 | |
| | 2560 x 1440 | |
| | 2304 x 1296 | |
| | 1920 x 1080 | |
| | 1280 x 720 | |
| | 640 x 360 | |
| 5:4 | 1280 x 1024 | 1280 x 1024, 640 x 512, 320 x 256 |
| | 640 x 512 | |

| Camera Resolution | GV-SNVR1612 | |
|---|---|---|
| **Stream** | **Main Stream** | **Sub Stream** |
| 4:3 | 2592 x 1944 | 1280 x 1200, 1024 x 768, 960 x 720, 640 x 480, 320 x 240 |
| | 2560 x 1920 | |
| | 2048 x 1536 | |
| | 1600 x 1200 | |
| | 1280 x 960 | |
| | 640 x 480 | |
| 16:9 (Default) | 3840 x 2160 | 1280 x 720, 640 x 360, 448 x 256 |
| | 2592 x 1520 | |
| | 2560 x 1440 | |
| | 2304 x 1296 | |
| | 1920 x 1080 | |
| | 1280 x 720 | |
| | 640 x 360 | |
| 5:4 | 1280 x 1024 | 1280 x 1024, 640 x 512, 320 x 256 |
| | 640 x 512 | |

All specifications are subject to change without notice.