GV-Cloud Bridge Pro

Introduction

GV-Cloud Bridge Pro seamlessly integrates ONVIF and GV-IP cameras with GeoVision's software and mobile app, allowing for centralized management or cloud-based monitoring.

- **Multiple Software Connectivity**
  GV-Cloud Bridge Pro supports a variety of operation modes, including connecting a regular camera to *GV-Cloud VMS* for cloud-based monitoring, *GV-Center V2* for central monitoring, and *GV-Recording Server / Video Gateway* for large-scale video recording and transmission. Furthermore, it enables readers or a single controller to connect to *GV-Cloud Access Control* for cloud-based access management.

- **AI-powered Monitoring and Alarm Reduction**
  Equipped with People and Vehicle Detection (PVD) functionality, GV-Cloud Bridge Pro minimizes false alarms, enabling more accurate and efficient monitoring.

- **Secure VPN Connectivity**
  Establish a secure VPN (virtual private network) for devices within the same LAN, eliminating the complexities of port forwarding for enhanced security.

- **Easy Mobile Access**
  Connect effortlessly to the *GV-Eye* mobile app by scanning a QR code, enabling real-time, remote access to live camera feeds from any location.

- **Live Broadcasting Support**
  For organizations needing live streaming capabilities, GV-Cloud Bridge Pro offers direct streaming to social media platforms like YouTube, Twitch, and more, allowing for versatile broadcasting options.

Key Features

- Up to 8 ONVIF cameras
- Up to 4-ch People and Vehicle Detection (PVD)
- Connecting cameras to GV-Cloud VMS for cloud-based video monitoring
- Connecting access control devices to GV-Cloud Access Control for cloud-based access control
  - 4-door and 8-reader access control
  - Up to 8 readers connection via a GV-Controller, or up to 8 GV-DFK1355 readers connection
- Connecting cameras to GV-Center V2 for central monitoring
- Connecting cameras to GV-Recording Server / Video Gateway for large-scale video recording and transmitting
- Up to 16 IP devices supported with GV-VPN for a secure virtual private network
- Up to virtual 8 inputs supported for event alerts and recording triggers on input detection
- Up to virtual 8 outputs supported for remote control via GV-Center V2 and GV-Eye
- Smartphone app support for live view and event alerts
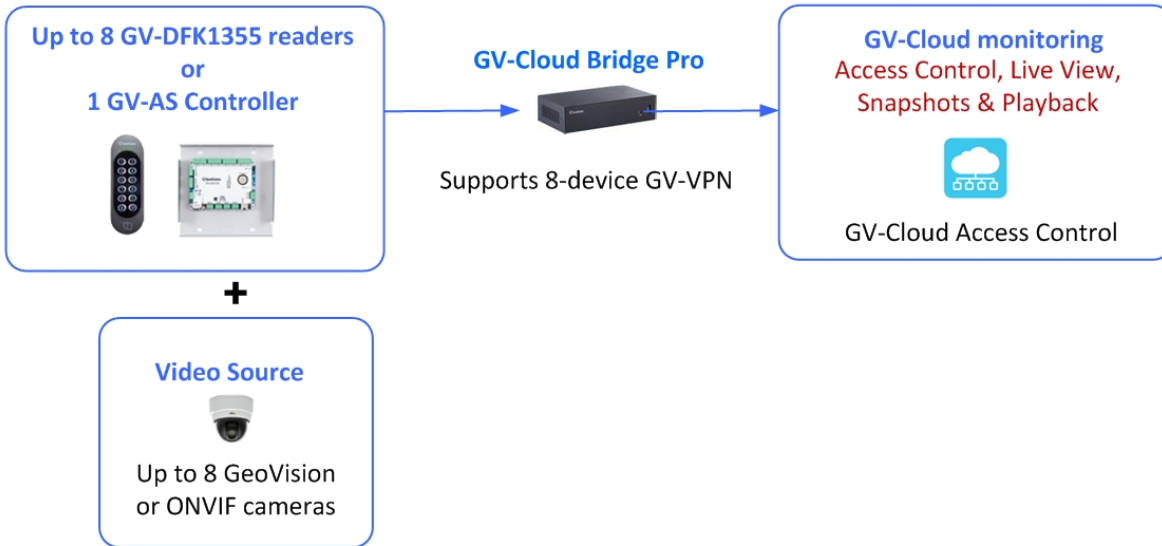- Live broadcasting on YouTube, Twitch, etc.

Topology Diagrams

GV-Cloud Bridge Pro supports four major operation modes between cameras, readers, controllers, IP devices, and GeoVision software: GV-Cloud VMS, GV-Cloud Access Control, GV-Center V2 / Recording Server / Video Gateway / RTMP, and GV-VPN Box. Only one of the operation modes can be enabled at once.
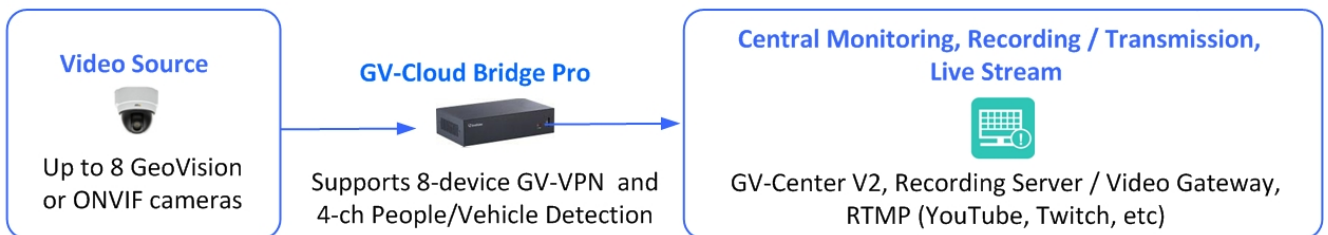
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GV-Cloud VMS

Video Source

Up to 8 GeoVision or ONVIF cameras

GV-Cloud Bridge Pro

Supports 8-device GV-VPN and 4-ch People/Vehicle Detection

GV-Cloud monitoring
Live View, Snapshots & Playback

GV-Cloud VMS

GV-Cloud Access Control

Up to 8 GV-DFK1355 readers or 1 GV-AS Controller

GV-Cloud Bridge Pro

Supports 8-device GV-VPN

GV-Cloud monitoring
Access Control, Live View, Snapshots & Playback

GV-Cloud Access Control

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Video Source

Up to 8 GeoVision or ONVIF cameras

GV-Center V2, Recording Server / Video Gateway, RTMP

Video Source

Up to 8 GeoVision or ONVIF cameras

GV-Cloud Bridge Pro

Supports 8-device GV-VPN and 4-ch People/Vehicle Detection

Central Monitoring, Recording / Transmission, Live Stream

GV-Center V2, Recording Server / Video Gateway, RTMP (YouTube, Twitch, etc)

GV-VPN Box

Network Devices

Up to 16 IP devices

GV-Cloud Bridge Pro

Maps the device IP to GV-VPN IP

GV-Cloud

GV-VPN

Note: The 4-ch People/Vehicle Detection by GV-Cloud Bridge Pro only works with GV-Center V2 V20.

Specifications

Video			
Video Format			H.265, H.264
Audio Format			G.711
Network			
Interface			10/100/1000 Ethernet
Protocol			DHCP, DNS, HTTP, ICMP, IPv4, NTP, RTMP, TCP/IP, UDP
Mechanical			
Connector	Power		DC jack (DC 12V, 3A), PoE
	Ethernet		RJ-45
	RS-485		RS-485 +/- (for GV-DFK1355 readers)
	Memory Card Slot		microSD card (SDHC / SDXC / UHS-I, Class 10, Linux ext4 format)
	SSD (Optional)		2.5" SSD SATA 3 interface, max. 4 TB, Linux ext4 format *The SSD Mounting Kit is required to install a SSD.
	USB		Not functional
LED Indicator			2 LEDs: Power, Status
General			
Operating Temperature			0°C ~ 40°C (32°F ~ 104°F)
Humidity			20% to 80% (no condensation)
Weather Resistance			Indoor use only
Power Source			12V DC, 3A / PoE+ (IEEE 802.3at) *The device can only accept one power source, either a PoE power supply or a DC power adapter. Connecting two power sources simultaneously can damage the device.
Power Consumption			**DC power adapter:** 36 W (max. 3A at 12V DC) **PoE power supply:** 25 W (PoE+, IEEE 802.3at)
Dimensions (W x H x D)			170.10 x 97.70 x 43.00 mm (6.7 x 3.8 x 1.7 in)
Net Weight			688 g (1.52 lb)
Certification			CE, FCC, LVD, RCM, UKCA compliant
Operation			
Operation Mode	GV-Cloud VMS	Cloud VMS	**Basic / Standard License:** 4 channels (SD card), 8 channels (SSD) **Premium License:** 4 channels (SD card), 8 channels (SSD)
		GV-VPN	8 mapping devices, a maximum of 80 Mbps
		People and Vehicle Detection (PVD)	4 channels
		Mobile App	GV-Eye
	GV-Cloud Access Control	Cloud Access Control	**GV-AS Controller**: 1 controller **GV-DFK1355 reader**: 8 readers **IP Camera**: 8 cameras **Database**: 100,000 cards *Either eight readers or one controller are supported.
		Cloud VMS	**Basic / Standard License:** 4 channels (SD card), 8 channels (SSD) **Premium License:** 4 channels (SD card), 8 channels (SSD)
		GV-VPN	8 mapping devices, a maximum of 80 Mbps
		Mobile App	GV-Eye
	GV-Center V2 / Recording Server / Video Gateway / RTMP	Center V2 / Dispatch Server	8 channels
		Recording Server / Video Gateway	8 channels
		RTMP	2 channels for RTMP livestream
		GV-VPN	8 mapping devices, a maximum of 80 Mbps
		People and Vehicle Detection (PVD)	4 channels
		Mobile App	GV-Eye
	GV-VPN Box (16 IP devices)		16 mapping devices, a maximum of 80 Mbps

GV-IO Box (4E / 8E / 16E)	4 units
Virtual I/O	8 in / 8 out from cameras and GV-IO Box
Installation Management	Web-based configuration
Browser Support	Chrome, Firefox, Safari
Access from Web Browser	Live View, Image Snapshot, Audio, Picture in Picture, Stats (Codec, Resolution, Audio, Bitrate, FPS, Client)
Language	English
Maintenance	Firmware upgrade through GV-IP Device Utility (V9.0.2.0 or later)
3rd Party IP Camera Support	Yes (ONVIF)
Application	
Software Supported	GV-Recording Server / Video Gateway (coming soon), GV-Cloud VMS V1.2.1 or later, GV-Dispatch Server V18.2.0A or later, GV-Center V2 V18.4.1 or later, GV-VPN V1.1.0 or later
Smart Device Access	GV-Eye for iOS and Android V3.3.0 or later

Note:

1. The device can only accept one power source, either a PoE power supply or a DC power adapter. Connecting two power sources simultaneously can damage the device.
2. GV-Cloud Bridge Pro offers different operation modes. Only one of them can be enabled at once. The device will restart after switching modes.
3. The GV-VPN function in the following two operation modes only supports IP device configuration, not video streaming: (1) GV-Cloud VMS / VPN + PVD, (2) GV-Cloud Access Control / VPN.
4. If both an SSD and memory card are attached, the device will only recognize the SSD.
5. GV-Cloud Bridge Pro is not compatible with Internet Explorer.
6. Video compression of H.264 is required for RTMP streaming.
7. Specifications are subject to change without notice.

Compatible Products

- **Camera:** GV-IP cameras or ONVIF cameras
- **Software:**
  - GV-Center V2 V18.4.1 or later
  - GV-Recording Server / Video Gateway (coming soon)
  - GV-Dispatch Server V18.2.0A or later
  - GV-VPN V1.1.0 or later
- **GV-Cloud VMS** (cloud-based software): V1.2.1 or later
- **GV-Cloud Access Control** (cloud-based software): V1.1.0 or later
  - GV-AS Controller (controller): GV-AS210 / 2110 / 2120, GV-AS410 / 4110 / 4111 firmware V2.60 or later
  - GV-DFK1355 (reader)
- **Mobile App:** GV-Eye V3.3.0 or later

Note:

1. To allow GV-IP Cameras without GV-Center V2 settings to connect to GV-Center V2, use GV-Cloud Bridge Pro.
2. To access 3rd party IP cameras using the GV-Eye app, use GV-Cloud Bridge Pro.
3. To allow 3rd party IP cameras to establish passive connections to GV-Recording Server / Video Gateway without port forwarding, use GV-Cloud Bridge Pro.
4. When working with GV-Center V2,
   - GV-Center V2 V18.4.1 and GV-Dispatch Server V18.2.0A do not support AI and PVD events.
   - GV-Center V2 V20 and GV-Dispatch Server V20 support AI and PVD events.

GV-Cloud VMS Licenses

To use GV-Cloud Bridge Pro with GV-Cloud VMS, select the license that best meets your surveillance requirements. GV-Cloud VMS provides three license options: **Basic**, **Standard**, and **Premium**. For details on GV-Cloud VMS licenses, see the datasheet.

Basic and Standard Licenses

Camera Resolution	Storage Type	Basic	Standard
8 / 4 / 2 / 1 MP	SSD	8 CH	
	SD Card	4 CH	

Premium License

As you integrate GV-Cloud Bridge Pro and GV-Cloud VMS, the following GV-Cloud VMS premium licenses are available based on the resolution of recordings to be uploaded to GV-Cloud VMS (SD, 720p, 2M, 2M / 30F, 4M, 4M / 30F) and each license specifies the frame rate and bitrate limit.

Camera Resolution	Storage Type	Maximum Channels supported by GV-Cloud VMS Premium License					
		SD (640*480)	720p	2M	2M / 30F	4M	4M / 30F
		30 FPS + 512 Kbps	30 FPS + 1 Mbps	15 FPS + 1 Mbps	30 FPS + 2 Mbps	15 FPS + 2 Mbps	30 FPS + 3 Mbps
8 MP	SSD	8 CH	8 CH	8 CH	8 CH	N/A	
	SD Card	4 CH	4 CH	4 CH	4 CH		
4 MP	SSD	8 CH	8 CH	N/A		8 CH	8 CH
	SD Card	4 CH	4 CH			4 CH	4 CH
2 MP	SSD	8 CH	8 CH	8 CH	8 CH	N/A	
	SD Card	4 CH	4 CH	4 CH	4 CH		
1 MP	SSD	8 CH	8 CH	N/A		N/A	
	SD Card	4 CH	4 CH				

Packing List

1. GV-Cloud Bridge Pro
2. Terminal Block
3. Download Guide

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Accessories

Model No.	Details
GV-IO Box Series	GV-IO Box series provides 4 / 8 / 16 inputs and relay outputs, and supports both DC and AC output voltages, with optional support for Ethernet module and 4E additionally supporting PoE connection.
GV-PA301	GV-PA301 is a Gigabit Power over Ethernet (PoE) adapter.
GV-POE Switch	GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.
Power Adapter	Contact our sales representatives for the countries and areas supported.
SSD Mounting Kit	The kit consists of one SATA power cable, one SATA data cable, one mounting plate and screws.

Overview

Dimensions