

GV-FWC

Converter for Sending Access Card Data, paired to Face IDs, to Controllers



Introduction

GV-FWC integrates GeoVision face-recognition-based cameras, software and readers into access control systems by sending access card data, paired to Face IDs, to controllers either through TCP/IP or Wiegand connection. When connected via TCP/IP, a face image is transmitted along with the access data upon face recognition.

Additionally, the alarm output, e.g. a warning light, on GV-FWC can be triggered upon face recognition. For high security applications, GV-FWC can not only pass the face recognition access data to controllers but also require users to swipe paired cards on a connected Wiegand reader for double-authentication.

Key Features

- Connection to controller via TCP/IP / Wiegand
- DC 12 V / PoE+ (IEEE 802.3at)
- Support for up to 4 GV-Face Recognition Cameras / GV-AI FRs / GV-FR Panels
- Alarm trigger upon face recognition of a Face Group
- Connectable to a Wiegand reader for double-authentication, face recognition plus card swipe
- Compatible with 3rd-party Wiegand controllers

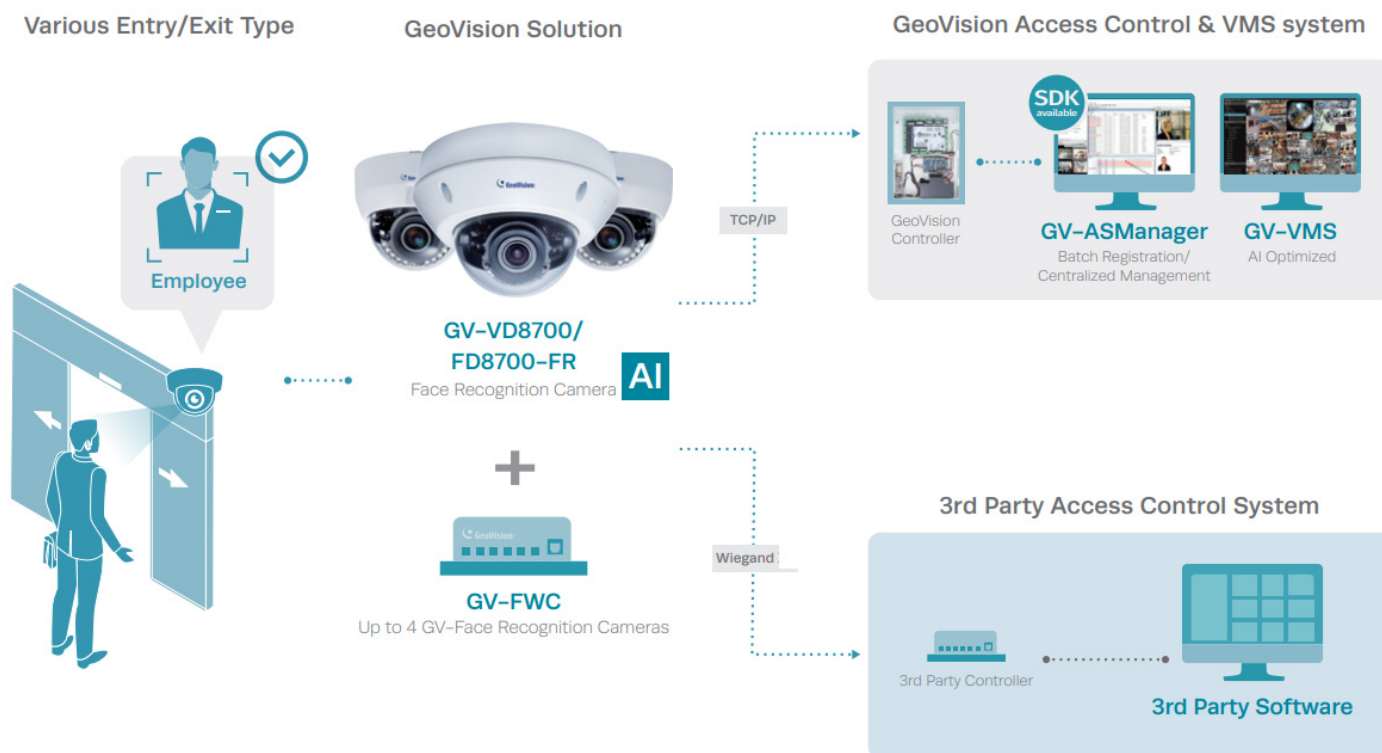
Product Supported

GV-FWC is required for GV-FR8700-FR / GV-VD8700 to connect to GeoVision access control system. The Wiegand port of GV-FWC allows integration of GeoVision face-recognition-based cameras, software, readers with any 3rd-party Wiegand controllers.

- **Face Recognition Camera:** [GV-FD8700-FR](#), [GV-VD8700](#)
- **Software:** [GV-AI FR](#)
- **Reader:** [GV-FR Panel](#)

Diagram

The following diagram uses GeoVision face recognition cameras as an example to illustrate the integration of video security and access control.



Specifications

Operation		
Communication Interface		TCP/IP
Wiegand Interface		2 Wiegand interfaces (In & Out), 26 ~ 64 bits
		12 V DC, 900 mA
I/O	Input	3 inputs
	Output	2 relay outputs
Number of Hosts Supported		4 GV-FD8700-FR or GV-VD8700 (camera) / GV-AI FR (software) / GV-FR Panel (reader)
General		
Power		12V DC, 1.25A / PoE+ (IEEE 802.3at, max 25.5 W)
Operating Temperature		0 ~ 65 °C (32 ~ 149 °F)
Operating Humidity		5% ~ 95% RH (non-condensing)
Dimensions (W x H x D)		130 x 31 x 84 mm (5.11 x 1.22 x 3.30 in)
Weight		170 g (0.37 lb)
Regulatory		CE, FCC, RoHS

Note:

- GV-FWC can only be connected using CAT-5e cables, TIA/EIA-568-B, with a maximum DC resistance of 9.38 ohms/100 m.
- All specifications are subject to change without notice.

Firmware and Software Compatibility

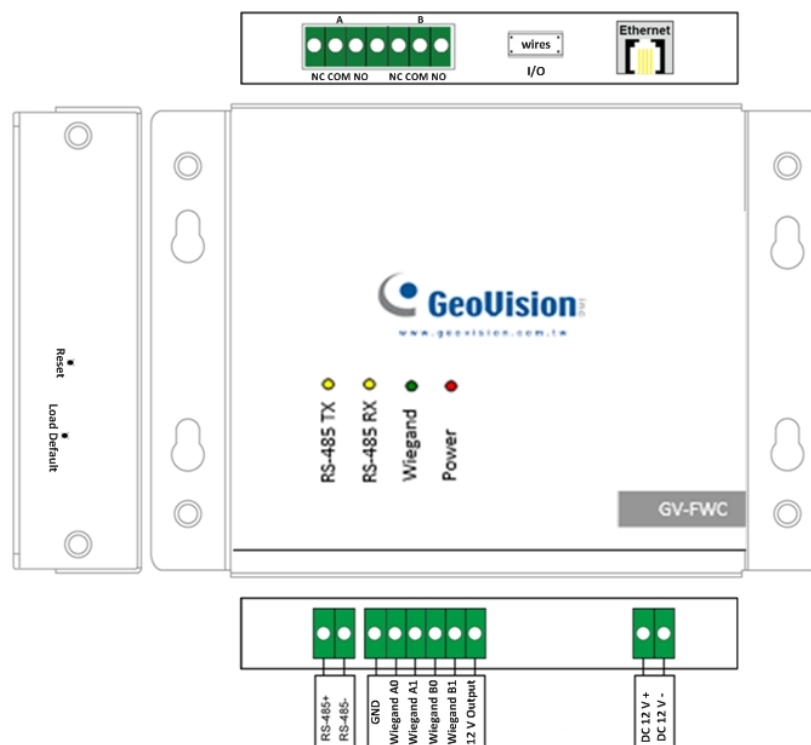
GV-FWC is compatible with the following firmware and software versions for integration:

Face Recognition Camera (V1.10 or later required)		
Supported Product / Application		Version
Controller	GVAS210 / 2110 / 2120	V2.20 or later
	GV-AS410 / 4110 / 4111	
	GV-AS810 / 8110 / 8111	
	GV-AS1520	V2.03 or later
	GV-AS1620	V1.00 or later
	GV-CS1320	V3.01 or later
	GV-EV48	V2.31 or later
GV-ASManager access control software		V5.1.0 or later
GV-AI FR		
Supported Product / Application		Version
Controller	GV-AS210 / 2110 / 2120	V2.31 or later
	GV-AS410 / 4110 / 4111	
	GV-AS810 / 8110 / 8111	
	GV-AS1520	V2.05 or later
	GV-AS1620	V1.02 or later
	GV-CS1320	V3.04 or later
	GV-EV48	V2.31 or later
GV-ASManager access control software		V5.3.0 or later
GV-FR Panel		
Supported Product / Application		Supported Product / Application
Controller	GV-AS210 / 2110 / 2120	V2.31 or later
	GV-AS410 / 4110 / 4111	
	GV-AS810 / 8110 / 8111	
	GV-AS1520	V2.06 or later
	GV-AS1620	V1.03 or later
	GV-CS1320	V3.05 or later
	GV-EV48	V2.31 or later
GV-ASManager access control software		V5.3. or later
Note: GV-FWC of version V1.02 or later is required for connecting to GV-FR Panel.		

Packing List

1. GV-FWC
2. I/O Wires
3. Download Guide
4. Warranty Card

Overview



Accessories

Model No.	Name	Details
GV-PA901	PoE Adapter 	GV-PA901 PoE adapter is designed to provide power and network connection to IP cameras over a single Ethernet cable.
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.
The following Wiegand readers can connect to GV-FWC for double-authentication application, face recognition plus card swipe.		
GV-CR420	IP Camera Reader	GV-CR420 is a card reader with built-in 4 MP wide angle IP camera that is able to transmit a wide-angle live view for enhanced access control management.
GV-DFR1352	Door Frame Card Reader	GV-DFR1352 is a card reader designed to be installed on the door frame or recognizing access cards.
GV-R1352	Card Reader	GV-R1352 is a card reader, featured with Wiegand and RS-485 outputs, designed to recognize access cards.
GV-Reader1251	Card Reader	GV-Reader1251 is a card reader that supports 125-kHz access cards for access control management
GV-RK1352	Card Reader	GV-RK1352 is a 13.56 MHz card reader with keypad. The reader has both Wiegand and RS-485 outputs that can be connected to any standard access control panel.
GV-RKD1352	Card Reader	GV-RKD1352 is a 13.56 MHz card reader with keypad. The reader has both Wiegand and RS-485 outputs that can be connected to any standard access control panel. It also supports OSDP communication and DESFire EV2 card.
GV-SR1251	Card Reader	GV-SR1251 is a card reader that supports 125-kHz access cards for access control management.