

Architectural and Engineering Specifications

GV-AS2110 Controller

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The document is written using industry standard formatting and language, and is designed for use by architects, consultants, and specifying engineers who are preparing bid specifications for security cameras, surveillance systems and access control systems.

The electronic version of these specifications may be copied into the appropriate sections of a complete bid specification by using the “cut and paste” method. They are written to highlight the features and specifications of GeoVision products. Section headings mention specific models only for clarity – these may be deleted after insertion into the complete specification.

Products covered in this document include:

- *GV-AS2110 Controller*

For more information on GeoVision products, please visit

www.geovision.com.tw.

GV-AS2110 Controller



A. General Requirements

1. GV-AS2110 shall be capable of controlling doors, parking gates and access to elevator call buttons.
2. GV-AS2110 shall support the following number of doors:
 - For one-way control, it shall support up to 4 doors.
 - For two-way control, it shall support up to 2 doors by Wiegand only, and up to 4 doors by Wiegand, RS-485 and network.
3. GV-AS2110 shall have a 32-bit ARM7TDMI CPU.
4. GV-AS2110 shall support up to 4 Wiegand card readers of 26 to 64 bits.
5. It shall support up to 8 GV-Readers / GV-GF Fingerprint Readers through RS485 connection.
6. GV-AS2110 shall support up to 100,000 user cards.
7. It shall be equipped with 8 digital inputs and 8 relay outputs.
8. GV-AS2110 shall have an event buffer of up to 1,000,000 events and log data.
9. GV-AS2110 shall support TCP/IP connection with GV-ASManager. With GV-ASManager, you shall be capable of accessing information and alarm messages from GV-AS2110.
10. GV-AS2110 shall be accessible on a network using:
 - Fixed or dynamic IP address
 - DDNS domain name

B. Interface Requirements

1. GV-AS2110 shall be equipped with 1 RS-485 interface for connection with up to 8 GV-Readers and GV-GF Fingerprint Readers
 - All 8 readers shall be connected together with a single RS-485 cable to the RS-485 interface on GV-AS2110.
 - The distance between GV-AS2110 and the reader through RS-485 connection shall be up to 600 meters.
2. GV-AS2110 shall have 4 Wiegand interfaces that are compatible with any Wiegand card readers of 26 to 64 bits.
3. GV-AS2110 shall have 1 TCP/IP interface for connection with GeoVision network readers and GV-ASManager.

C. Web Interface Requirements: You shall be able to access the following settings through the Web interface of GV-AS2110.

1. You shall be able to export GV-AS2110 settings, and then import the same settings to other controllers.
2. You shall be able to upgrade controller firmware.
3. You shall be able to manage login ID and password for the Web interface. An administrator account with full access to all functions, and a guest account with limited access rights shall be available.
4. You shall be able to set up the following functions across multiple door controllers.
 - **Anti-Passback (APB):** When enabled, a card used on an entry door cannot access the same entry door again unless it has been used on a corresponding exit door.
 - **All Zone Fire Sensor:** When enabled, the fire sensors on all associated controllers shall be triggered when the fire sensor on one door is triggered.
5. GV-AS2110 shall support the following authentication modes:
 - **Local Unlock Mode:** Doors remain open.
 - **Local Lock Mode:** Doors remain locked.
 - **Fixed Card Mode:** Grants access to door after the card is presented.
 - **Fixed Card + PIN Mode:** Grants access to door after the card is presented and a PIN code is entered.

- **Fixed Card/Common mode:** Grants access to door either after the card is presented or the door's password is entered.
 - **Authentication Schedule Mode:** Follows the authentication schedule set on GV-ASManager.
6. You shall be able to configure the following Parameter Setting.
 - **Lock Reset Time:** Doors remain open for the specified time period (between 1 and 255 seconds) and after that, doors will be automatically locked.
 - **Held Open Time:** Doors can be held open for the specified time period (between 5 and 9999 seconds) before an alarm is generated.
 - **Fire Action:** Doors lock or unlock when a fire condition occurs.
 - **Alarm Continuous Time:** When triggered, alarm will go off for the specified time period (between 1 and 10 seconds) before it automatically turns off.
 - GV-AS2110 shall support the following types of alarms: Held Open, Forced Open, Fire, Access Denied, and Tamper alarm.
 7. GV-AS2110 shall support the following time settings: manually set a time for GV-AS2110, synchronize with PC's time, and enable / disable day light time
 8. You shall be able to define the input devices connected to GV-AS2110 controller. Input sensors can be set to Normally Open (NO) or Normally Closed (NC).
 9. You shall be able to configure the output devices to specify the output types (Normal, Toggle, Pulse) and the output conditions in which the output device will be triggered.
 10. You shall be able to define the connected Wiegand readers.
 11. You shall be able to define the GV-Readers and GV-GF Fingerprint Readers connected to the controller through RS-485 or network connection.

D. Mechanical Requirements

1. GV-AS2110 controller shall have dimensions of 210 x 204 x 46.6 mm / 8.27 x 8.03 x 1.83 in including the case.
2. GV-AS2110 shall have a weight of 810 g / 1.79 lb including the case.
3. GV-AS2110 shall be able to connect with up to 8 input devices; all inputs are dry contact and can be set to NO/NC.

4. GV-AS2110 shall be able to connect with up to 8 output devices of voltage 30V DC, 110V AC ~ 250V AC and 3A (AC), 3A (DC) continuous load current.
5. GV-AS2110 shall have a micro SD card slot.
6. GV-AS2110 shall come with a replaceable button cell battery.
7. GV-AS2110 shall support any backup battery of 12V 12Ah.

E. Power Requirements

1. GV-AS2110 shall be capable of receiving power from 100~250V AC, 50~60 Hz.

F. Environmental Requirements

1. The operating temperature of GV-AS2110 shall be within the range of 0 ~ 65°C / 32 ~ 149°F.
2. The operating humidity of GV-AS2110 shall be within the range of 10% ~ 90% RH with no condensation.

G. Packing list

1. GV-AS2110
2. Power Adaptor 12V DC / 3A
3. Power Cord
4. Battery Cable
5. Micro SD Card 2 GB

H. Certifications and Approvals

1. CE, FCC, RoHS compliant

All specifications are subject to change without notice.