

Architectural and Engineering Specifications

GV-AS1110 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-AS1110 Controller*

For more information on GeoVision products, please visit

www.geovision.com.tw.

GV-AS1110 Controller



A. General Requirements

1. The GV-AS1110 shall be capable of being a single door controller with a built-in card reader and a built-in keypad.
2. GV-AS1110 shall be capable of controlling doors, parking gates and access to elevator call buttons.
3. GV-AS1110 shall support 1 door with one-way control or two-way control.
4. GV-AS1110 shall be equipped with a 32-bit ARM7TDMI CPU.
5. GV-AS1110 shall support up to 2 GeoVision network readers through network connection.
6. The GV-AS1110 shall support 1,000 cards in standalone mode, or up to 40,000 cards in network mode.
7. The built-in reader shall read frequency of 13.56MHz for ISO14443A, supporting Mifare DESFire, Mifare Plus, and Mifare Classic cards.
8. GV-AS1110 shall have an event buffer of up to 65,536 events and log data.
9. GV-AS1110 shall support TCP/IP connection with GV-ASManager. With GV-ASManager, you shall be capable of accessing information and alarm messages from GV-AS1110.
10. GV-AS1110 shall be accessible on a network using:
 - Fixed or dynamic IP address
 - DDNS domain name

B. Interface Requirements

1. GV-AS1110 comes with 1 TCP/IP interface to allow network 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-AS1110.

1. You shall be able to export GV-AS1110 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 **Anti-Passback (APB)** across multiple door controllers. 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.
5. GV-AS1110 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 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-AS1110 shall support the following types of alarms: Held Open, Forced Open, Fire, Access Denied, and Tamper alarm.
7. Card Setting page shall be available to set the built-in card reader to read UID (unique identification) or GID (GeoVision ID) on ID cards or key fobs.
 8. Card Information page shall be available to view the cards added by GV-AS1110.
 9. GV-AS1110 shall support the following time settings: manually set a time for GV-AS1110, synchronize with PC's time, and enable / disable day light time
 10. You shall be able to define the input devices connected to GV-AS1110 controller. Input sensors can be set to Normally Open (NO) or Normally Closed (NC).
 11. 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.
 12. You shall be able to define the GV-Readers and GV-GF Fingerprint Readers connected to the controller through network connection.

D. Mechanical Requirements

1. GV-AS1110 shall have dimensions of 95 x 108 x 23 mm / 3.74 x 4.25 x 0.91 in.
2. GV-AS1110 shall have a weight of 270 g / 0.59 lb.
3. GV-AS1110 shall be equipped with wires for 2 digital inputs, dry contact, NO / NC. GV-AS1110 shall support to types of inputs: sensor inputs and button inputs.
4. GV-AS1110 shall be equipped with wire for 1 door output of 30V DC, 1A; 110V AC~250V AC, 0.3A.
5. GV-AS1110 shall be equipped with a keypad to allow configuration of the following functions.
 - Add / delete cards
 - Set password
 - Lock Reset Time
 - Held Open Time

- Local Anti-Passback
 - Set Alarm Event
 - Door/Gate Function
 - Set Authentication Mode
 - Open door with card number and PIN code
 - Set ID
 - Security Mode
 - Two Person Entrance
 - Two Person Exit
 - Select Input Contact Type
 - Load Default
6. GV-AS1110 shall be equipped with a built-in reader that can be set to read the UID (unique identification) or GID (GeoVision ID) on ID cards / key fobs.
 7. The GV-AS1110 shall come with a built-in battery.
 8. GV-AS1110 shall be equipped with a built-in tampering alarm sensor.

E. Power Requirements

1. The GV-AS1110 shall be capable of receiving power from 100 ~ 240V AC, 50 ~ 60 Hz.

F. Environmental Requirements

1. The Operating temperature of GV-AS1110 shall be within the range of -35 ~ 65° C / -31 ~ 149° F.
2. The operating humidity shall be within the range of 10% ~ 90% RH with no condensation.
3. GV-AS1110 shall comply with IP66 protection classification.

G. Packing list shall include:

1. GV-AS1110
2. Power Adaptor 12V DC / 1.25A
3. Screw x 2
4. Screw Anchor x 2
5. Front Cover Plate x 2
6. Enroll Card
7. Delete Card
8. GV-AS ID F Card x 20

9. Torx Wrench

H. Certifications and Approvals

1. CE, FCC, RoHS compliant.

All specifications are subject to change without notice.