

## **Architectural and Engineering Specifications**

### **GV-FR2020 Face Recognition Reader**

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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.*

*Product covered in this document includes:*

- *GV-FR2020 Face Recognition Reader*

All specifications are subject to change without prior notice. For more information on GeoVision products, please visit [www.geovision.com.tw](http://www.geovision.com.tw).

## GV-FR2020 Face Recognition Reader



### A. General Requirements

1. The reader shall be capable of performing the following verification methods before access can be granted.
  - Face Recognition or Card Verification in network mode.
  - Face Recognition, Card Verification or Password Verification in standalone mode.
2. The reader shall store up to 2000 faces for Face Recognition mode.
3. The reader shall read frequency of 13.56 MHz, 26-bit Wiegand card formats according to ISO14443A, supporting Mifare DESFire, Mifare Plus and Mifare Classic cards.
4. The reader shall read (unique identification) on ID cards.
5. The reader shall support TCP/IP connection with the access control software GV-ASManager and compatible GV-AS Controllers.
  - The Face Recognition mode shall work with GV-ASManager and the reader to enroll faces. Access shall be granted if the user's face matches with the enrolled face image on the reader.
  - The Card mode shall work with GV-ASManager and the reader to enroll ID numbers. Access shall be granted if the user's ID number matches with the enrolled ID number on GV-ASManager.

6. The reader shall provide manager and user account settings on the User interface. The manager account shall have full access to all the functions, and the user account shall only have access to Face, Card or Password verification.

## **B. Networking Requirements**

1. The reader shall be accessible on a network using a fixed or dynamic IP address.
2. The reader shall come the TCP/IP interface to allow network connection between a compatible GV-AS Controller and the access control software GV-ASManager.
  - The user data shall distribute through GV-ASManager to the assigned reader installed on the GV-AS Controller for access control. GV-ASManager shall synchronize the face data enrolled in the reader.

## **C. User Interface Requirements:** You shall be able to access the following settings through the User interface of the reader.

1. You shall be able to export user data, and then import the same data to other face recognition readers.
2. You shall be able to upgrade the reader firmware from a USB device.
3. The Main Menu shall be available to access the following submenus:
  - **User:** Faces shall be enrolled after automatically detecting suitable lighting conditions. User accounts shall be able to be created, modified or deleted in standalone mode.
  - **Setting:** The Manager shall be able to customize network configurations and system-related parameters.
  - **Inquiry:** The user registration information, device information and simple instructions shall be able to be displayed.
4. You shall be able to manage login ID and password in standalone mode. A manager account with full access to all functions, and a user account with limited access rights shall be available.
5. The standalone reader shall support the following verification methods:
  - **Face Recognition Mode:** Access shall be granted after the face is matched with the face data stored in the reader.

- **Card Mode:** Access shall be granted after the assigned card is presented.
- **Password Mode:** Access shall be granted after the password is entered correctly.

#### **D. Alert and Notification Requirements**

1. After adding the access control software GV-ASManager, the operator shall receive a “Access Granted” message with its associated face image if the face is successfully authenticated.

#### **E. Mechanical Requirements**

1. The reader shall be equipped with a color 2.4” TFT LCD display with a resolution of 320 x 240.
2. The reader shall be equipped with special stereo dual sensors: lens and IR sensor.
3. The reader shall be equipped with 16-bit Hi-Fi voice and sound indication.
4. The reader shall be equipped with 1G MHz CPU.
5. The reader shall allow detection of ambient light up to 5000 lux.
6. The Face Recognition shall have the verification speed of less than or equal to 0.5 second.
7. The reader shall be equipped with a LED indicator, which turns green or red momentarily, to indicate verification success or failure.
8. The reader shall have dimensions of 147 x 175 x 62 mm / 5.79 x 6.89 x 2.44 in.
9. The reader shall have a weight of 0.33 kg / 0.73 lb.
10. The reader shall be equipped with 1 relay output of voltage 30V DC, 3A for connecting a locking device.

#### **F. Power Requirements**

1. The reader shall be capable of receiving power from PoE+ (IEEE 802.3at).
2. The reader shall work with the POE switch with mid-span power delivery.
3. The reader shall be capable of receiving 12V DC power for standalone operation.

### **G. Environmental Requirements**

1. The operating temperature of the face recognition reader shall be within the range of 0 ~ 40° C / 32 ~ 104° F.
2. The operating humidity shall be within the range of 20% ~ 80% RH with no condensation.
3. The reader is designed for indoor usage.

### **H. Packing list shall include:**

1. Face Recognition Reader
2. Mounting Plate
3. Standard Screw x 4
4. Plastic Screw Anchor x 4
5. Security Screw
6. Data Cable
7. Warranty Card

### **I. Certifications and Approvals**

1. CE, FCC.

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