

GV-CR420 4MP H.264 Camera Reader



Introduction

All-in-One Solution

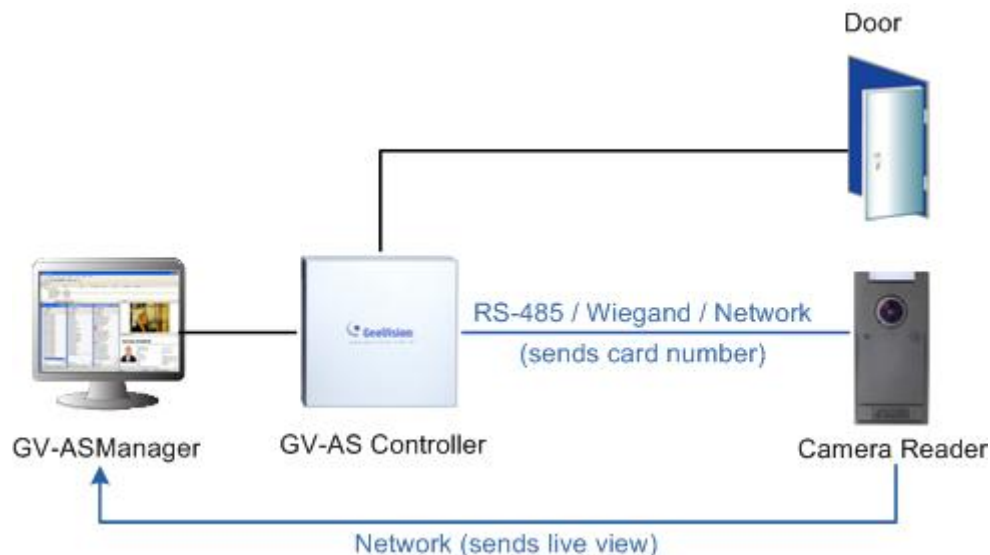
GV-CR420 is a card reader with a built-in 4 MP wide angle IP camera. The card reader recognizes identification cards and grants access accordingly. The wide angle camera captures all angles of the entrance and transmits live view to GV-ASManager and GV-System through network connection. The all-in-one solution eliminates the need of installing and maintaining a separate camera in addition to the card reader.

Card and Face Mode

In addition to granting access after a card is presented, the integration of card reader and wide angle camera allows you to enable the Card and Face Mode, where the camera reader needs to be able to both recognize the card and detect a face before access is granted.

Web Interface

Using a browser, you can watch live view and utilize functions such as motion detection, privacy mask and alert notifications through the Web interface.



Compatible GV-AS Controllers

- GV-AS100 / 110 / 120 / ASBox / ASNet: Firmware version 1.05 or later
- GV-AS210: Firmware version 1.1.0 or later
- GV-AS400: Firmware version 1.04 or later
- GV-AS810: Firmware version 1.1.0 or later

Note: Card and Face Mode by schedule and receiving card numbers through network connection are only supported in the following firmware versions:

- GV-AS100 / 110 / 120 / ASBox / ASNet: Firmware version 1.06 or later
- GV-AS210: Firmware version 1.1.0 or later
- GV-AS400: Firmware version 1.04 or later
- GV-AS810: Firmware version 1.1.0 or later

KEY FEATURES

Camera

- Wide angle IP camera with 4 MP progressive scan CMOS
- Stream 1 from H.264 and MJPEG; Stream 2 from H.264 and MJPEG
- Up to 15 fps at 2048 x 1944
- Built-in Web server for monitoring through Internet Explorer web browser
- Built-in microphone and speaker
- Wide Dynamic Reader (WDR)
- Defog
- Privacy mask to cover parts of the image that should not be viewable
- Tampering alarm
- Text overlay
- 28 languages on web interface
- ONVIF conformant

Reader

- GV-AS Controller connection through Wiegand interface, RS-485 interface and network
- 13.56 MHz for ISO14443A (Mifare DESFire, Mifare Plus and Mifare Class)
- Access by card plus face detection

Access Control

- Enabling different access control modes according to the Authentication Schedule: Card only mode (default), Card and Face Mode
- Receiving live view and capturing snapshots when card is presented

SPECIFICATIONS

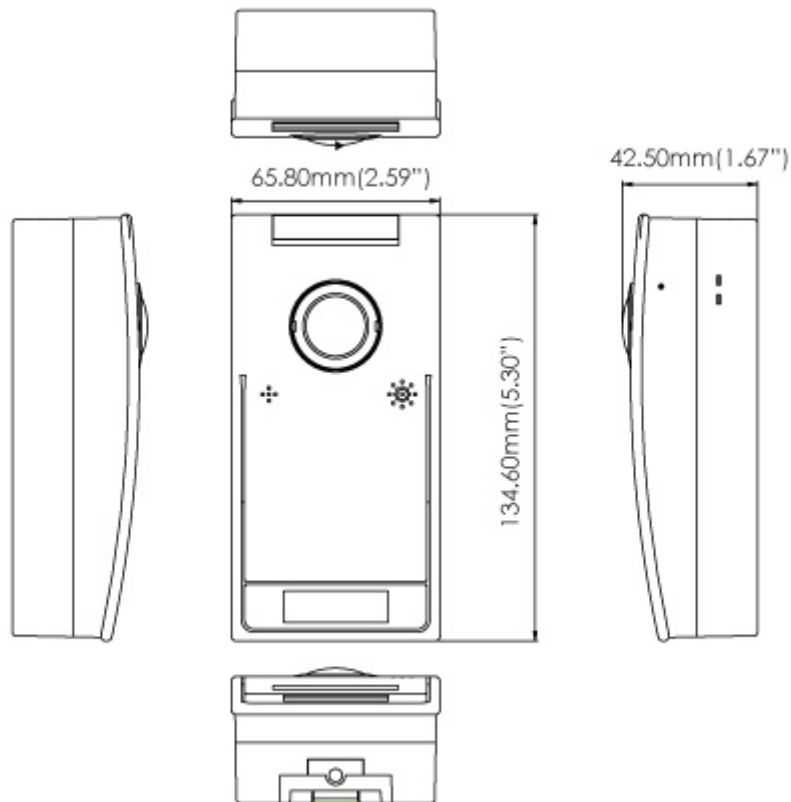
| | | |
|-----------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera | | |
| Image Sensor | | 1/2.5" progressive scan CMOS |
| Picture Elements | | 2048 (H) x 1944 (V) |
| Minimum Illumination | Color | 4 Lux (1/30 sec), 2 Lux (1/5 sec) |
| | B/W | |
| Minimum Illumination for Face Detection | | 41-50 Lux |
| Shutter Speed | | Automatic, Manual (1/5 ~ 1/8000 sec) |
| White Balance | | Automatic, Manual (2800K ~ 8500K) |
| Optics Lens | | |
| Megapixel | | Yes |
| Day / Night function | | Yes (Electronic) |
| Lens Type | | Fixed |
| Iris | | Fixed Iris |
| Focal Length | | 1.05 mm |
| Maximum Aperture | | F/2.8 |
| Mount | | M12, Pitch 0.5 mm |
| Image Format | | 1/2" |
| Operation | Focus | None |
| | Zoom | None |
| | Iris | Fixed |
| Operation | | |
| Video Compression | | H.264, MJPEG |
| Video Streaming | | Stream 1 and 2 from H.264 and MJPEG |
| Video Resolution | | 2048 x 1944 |
| Frame Rate | | 15 fps at 2048 x 1944 * The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes). |
| Image Setting | | Brightness, Contrast, Sharpness, Saturation, Gamma, White Balance, Flicker-less, Backlight Compensation, Image Orientation, Shutter Speed, Day / Night, WDR, Defog |
| Audio Compression | | G.711, AAC (16 kHz / 16 bit) |

| | | |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Network | | |
| Interface | 10/100 Ethernet | |
| Protocol | HTTP, HTTPS, TCP, UDP, SMTP, FTP, DHCP, NTP, UPnP, DynDNS, RTSP, PSIA, SNMP, QoS (DSCP) , ONVIF | |
| Mechanical | | |
| Lens Mounting | M12, Pitch 0.5 mm (0.02") | |
| Connectors | Power | 2-pin terminal block |
| | Ethernet | Ethernet (10/100 Base-T), RJ-45 Connector |
| | RS-485 | 2-pin terminal block |
| | Wiegand | 2-pin terminal block |
| | Audio | Built-in microphone and speaker |
| Reader | | |
| CPU | 8-bit RISC microprocessor | |
| Frequency | 13.56 MHz for ISO14443A (Mifare DESFire, Mifare Plus and Mifare Class) | |
| Wiegand Interface | Wiegand 26 bit, distance 30 m (98.43 ft) | |
| RS-485 | 9,600 bps, connect up to 8 GV-CR420 units | |
| LED | Red, Green and Blue LED | |
| Beeper | Buzzer | |
| General | | |
| Operating Temperature | 0°C ~ 40 °C (32 °F ~ 104 °F) | |
| Humidity | 10% to 90% (no condensation) | |
| Power Source | 12V DC, 0.35A | |
| Maximum Power Consumption | 15 W | |
| Regulatory | CE, FCC, C-Tick, RoHS compliant | |
| Dimension | 134.6 x 42.5 x 65.8 mm (5.3 x 1.7 x 2.6 in) | |
| Weight | 170 g (0.374 lb) | |
| Web Interface | | |
| Installation Management | Web-based configuration | |
| Maintenance | Firmware upgrade through Web Browser or Utility | |
| Access from Web Browser | Camera live view, video recording, change video quality, bandwidth control, image snapshot, audio, picture in picture, picture and picture, motion detection, privacy mask, tampering alarm, text overlay | |
| Language | Bulgarian / Czech / Danish / Dutch / English / French / German / / Greek / Hebrew / Hungarian / Italian / Indonesian / Japanese / Norwegian / Lithuanian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Thai / Traditional Chinese / Turkish | |
| Applications | | |
| Network Storage | GV-NVR, GV-System, GV-Recording Server | |
| Mobile Phone support | GV-Eye / GV-Eye HD for iPhone, iPod Touch and iPad, GV-Eye for Android | |
| Live Viewing | IE, GV-Multi View | |
| CMS Server Support | GV-Control Center, GV-Center V2, GV-VSM | |
| The number of GV-CR420 supported by GV-AS Controllers | | |
| GV-AS Controller Model | GV-R1352 Interface | |
| | Wiegand | RS-485 |
| GV-AS100 | 1 | 1 |
| GV-AS110 / GV-AS120 | 1 | Not supported |
| GV-AS100 / GV-AS110 / GV-AS120 with GV-ASBox | 2 | 4 |
| GV-AS100 / GV-AS110 / GV-AS120 with GV-ASNet | Not supported | 2 |
| GV-AS210 | 4 | 8 |
| GV-AS400 | 8 | 8 |
| GV-AS810 | 8 | 8 |

Note:

- To support face detection function, avoid placing the camera reader where the light source is directly behind the subject.
- All specifications are subject to change without notice

Dimension



Packing List

- GV-CR420 x 1
- Mounting Plate x 1
- Standard Screw x 2
- Plastic Screw Anchor x 2
- Security Screw x 1
- Torx Wrench x 1
- DC 12V Power Adapter x 1
- Software DVD x 1
- Quick Start Guide x 1

Accessories

| Name | Details |
|------------------------------------------------------------------------------------|------------------|
|  | 13.56MHz, Mifare |
| GV-AS ID Card & GV-AS ID Tag | |