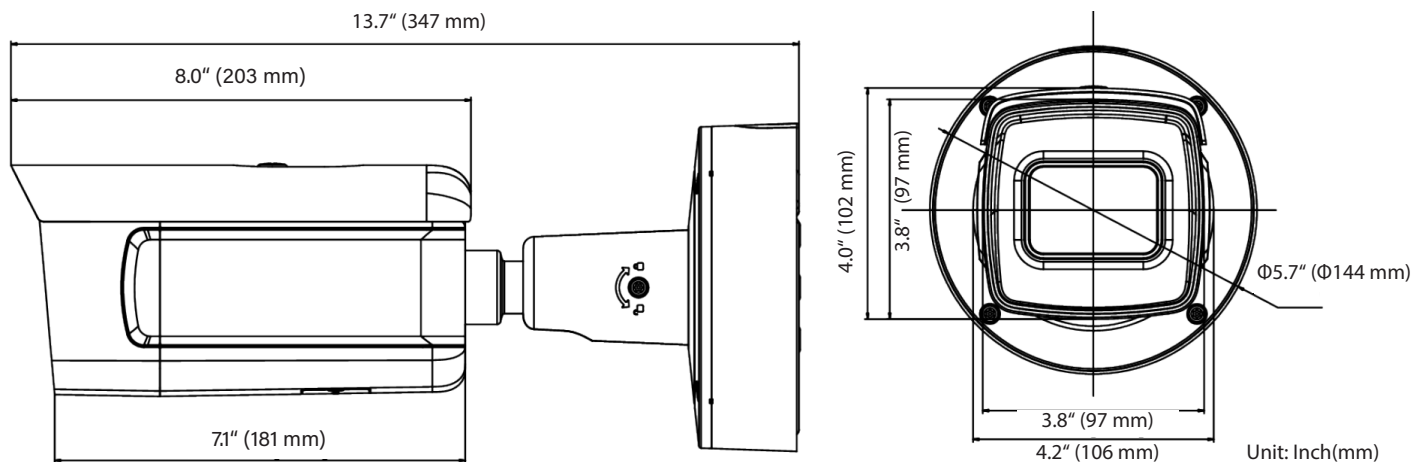


## 2 MP VF Bullet Network Camera GC-FRB22 and GC-FRB28



### Key Attributes

### Dimensions



Version 2.0

**govcomm**  
Intelligent Transportation Systems

Product picture and technical specifications are subject to change without notice.  
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# TECHNICAL SPECIFICATIONS

## Camera

- ◆ **Image Sensor:** 1/1.8" Progressive Scan CMOS
- ◆ **Min. Illumination:** Color - 0.002 Lux @ (F1.2, AGC ON), 0 Lux with IR
- ◆ **Shutter Speed:** 1 s to 1/100,000 s
- ◆ **Slow Shutter:** Yes
- ◆ **Day & Night:** IR Cut Filter
- ◆ **Digital Noise Reduction:** 3D DNR
- ◆ **WDR:** 140 dB
- ◆ **Angle Adjustment:**
  - ◆ **Bracket, Pan:** 0° to 355°
  - ◆ **Tilt:** 0° to 90°
  - ◆ **Rotate:** 0° to 360°

## Lens (GC-FRB22)

- ◆ **Focal Length:** 2.8 to 12 mm
- ◆ **Aperture:** F1.2
- ◆ **Focus:** Auto, Semi Auto, Manual
- ◆ **FOV:** 2.8 to 12 mm
  - ◆ **Horizontal FOV:** 103.3° to 38.6°
  - ◆ **Vertical FOV:** 54.2° to 21.9°
  - ◆ **Diagonal FOV:** 124.2° to 44.3°
- ◆ **Lens Mount:** Integrated

## Lens (GC-FRB28)

- ◆ **Focal Length:** 8 to 32 mm optional
- ◆ **Aperture:** F1.6
- ◆ **Focus:** Auto, semi auto, manual
- ◆ **FOV:** 8 to 32 mm
  - ◆ **Horizontal FOV:** 42.5° to 13.4°
  - ◆ **Vertical FOV:** 23.4° to 7.7°
  - ◆ **Diagonal FOV:** 49° to 15.3°
- ◆ **Lens Mount:** Integrated

## IR (GC-FRB22)

- ◆ **IR Range:** Up to 50m
- ◆ **Wavelength:** 850nm

## IR (GC-FRB28)

- ◆ **IR Range:** Up to 100m
- ◆ **Wavelength:** 850nm

## Compression Standard

- ◆ **Video Compression:**
  - ◆ **Main Stream:** H.265+/H.265/H.264+/H.264
  - ◆ **Sub Stream/Third Stream/Fourth Stream/ Fifth Stream/Custom Stream:** H.265/H.264/MJPEG
- ◆ **H.264 Type:** Baseline Profile/ Main Profile/ High Profile
- ◆ **H.264+:** Main Stream Support
- ◆ **H.265 Type:** Main Stream
- ◆ **H.265+:** Main Stream Support
- ◆ **Video Bit Rate:** 32 Kbps to 16 Mbps
- ◆ **Audio Compression:** No
- ◆ **Audio Bit Rate:** No

## Smart Feature-Set

- ◆ **Perimeter Protection:**
  - ◆ Line crossing, intrusion, region entrance, region exiting
  - ◆ Support alarm triggering by specified target types (human and vehicle)
  - ◆ Filtering out mistaken alarm caused by target types such as leaf, light, animal, and flag, etc.
- ◆ **Event Detection:** Unattended baggage detection, object removal detection, scene change detection, defocus detection
- ◆ **Face Detection and Capture:**
  - ◆ **Face Detection Performance:** Up to 30 faces per frame
  - ◆ **Detectable Face Position:** supports swing left and right from -65° to 65°, tilt up and down from -45° to 45°
- ◆ **Statistics:** Counting
- ◆ **Region of Interest:** Main stream/sub stream/third stream/fourth stream/fifth stream: 4 fixed regions and dynamic face tracking for each stream

## Image

- ◆ **Max. Resolution:** 1920 × 1080
- ◆ **Main Stream:** 60Hz - 60fps (1920 × 1080, 1280 × 960, 1280 × 720)
- ◆ **Sub Stream:** 60Hz - 30fps (704 × 480, 640 × 480)
- ◆ **Third Stream:** 60Hz - 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480)
- ◆ **Fourth Stream:** 60Hz - 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
- ◆ **Fifth Stream:** 60Hz - 30fps (704 × 480, 640 × 480)
- ◆ **Custom Stream:** 60Hz - 30fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480), Up to 5 custom streams are supported
- ◆ **Image Enhancement:** BLC, HLC, 3D DNR, Defog, EIS
- ◆ **Image Setting:** Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser
- ◆ **Target Cropping:** Yes
- ◆ **SVC:** H.264 and H.265 encoding
- ◆ **Day/Night Switch:** Day / Night / Auto / Schedule / Triggered by Alarm In
- ◆ **Picture Overlay:** LOGO picture can be overlaid on video with 128 × 128 24bit bmp format

## Network

- ◆ **Network Storage:** microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR
- ◆ **Alarm Trigger:** Motion detection, video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error
- ◆ **Protocols:** TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour
- ◆ **Security Measures:** Password Protection, HTTPS encryption, IEEE 802.1x port-based network access control, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF
- ◆ **General Function:** One-key reset, anti- flicker, five streams and custom stream, heartbeat, password protection, privacy mask, watermark, IP address filter
- ◆ **API:** ONVIF (PROFILE S, PROFILE G), ISAPI, SDK
- ◆ **Simultaneous Live View:** Up to 20 channels

## Network (Cont'd)

- ◆ **User/Host:** Up to 32 users. 3 user levels: administrator, operator and user
- ◆ **Client:** iVMS-4200, Hik-Connect, iVMS-5200, Hik-Central
- ◆ **Web Browser:** IE8+, Mozilla Firefox 30.0+, Safari 8.0+ Plug-in free live view supported

## Interface

- ◆ **Audio:** No
- ◆ **Communication Interface:** 1 RJ45 10M/100M/1000M Ethernet port
- ◆ **Alarm:** 2 inputs, 2 outputs (up to 24 VDC 1A or 110 VAC 500mA)
- ◆ **Video Out:** 1Vp-p composite output (75 Ω/CVBS), 4CIF resolution
- ◆ **On-board Storage:** Built-in micro SD/SDHC/SDXC slot, up to 256 GB
- ◆ **BNC:** CVBS analog output (4CIF resolution), internal
- ◆ **Reset Button:** Yes

## Audio

- ◆ **Environment Noise Filtering:** No
- ◆ **Audio Sampling Rate:** No

## General

- ◆ **Firmware Version:** 5.5.5/5.5.50
- ◆ **Operating Conditions:** -30 °C to 60 °C (-22 °F to 140 °F), -H: -40 °C to 60 °C (-40 °F to 140 °F), Humidity 95% or less (non-condensing)
- ◆ **Power Supply:** 12 VDC ± 20%, two-core terminal block; PoE (802.3at, class 4)
- ◆ **Power Consumption and Current:**
  - ◆ -IZS: 12 VDC, 1.2 A, 14 W; PoE (802.3at, 42.5 V to 57 V), 0.4 A to 0.3 A
  - ◆ -IZHS: 12 VDC, 1.4 A, 16.5 W; PoE (802.3at, 42.5 V to 57 V), 0.4 A to 0.3 A
- ◆ **Protection Level:** IP67, IK10
- ◆ **Heater:** -H yes
- ◆ **Material:** Aluminum Alloy
- ◆ **Dimensions Camera:** Φ144 × 347 mm (Φ5.7" × 13.7")
- ◆ **With package:** 405 × 190 × 180 mm (15.9" × 7.5" × 7.1")
- ◆ **Weight Camera:** Approx. 2.45 kg (5.40 lb.)