GIGAMEDIA
SMART BUILDING SOLUTIONS

# IP BULLET CAMERA
## GGM IPAB4VM5IR




ADVANCED RANGE

*This high-performance camera from the «Advanced» series is ideal for projects that require complex situation analysis such as tertiary projects, schools, supermarkets, parking lots, etc.*

The IPAB4VM5IR camera is a bullet camera with a resolution of 4 MP.

Its infrared can illuminate up to 100 m.

Its 5-50mm lens allows you to adapt its angle of view to the scene you want to see to keep maximum detail.

This camera has many smart analysis functions such as:

- Line crossing detection and zone intrusion with classification of people and vehicles.
- Triggering alarms on loitering, illegal parking or the detection of abandoned/lost objects.
- Counting statistics and heatmap functions provide relevant traffic information on your sales spaces.

This high-performance camera generates a large amount of metadata about people and vehicles, allowing criterion-based searches for fast and efficient results. (up to 13 human characteristics and 4 vehicles)

Equipped with a built-in microphone, you can allow remote audio verification or be alerted in case of abnormal sound.

It also integrates an audio input and output to connect an external sound system.

This camera has a micro SD card slot that can support a maximum capacity of 256 GB.

An alarm input and output is available to connect an external system in order to retrieve the status of a device (sensor, detector, probe) and trigger a third-party system (light, alarm, etc.)

Thanks to its IP67 rating, you can install it outdoors.

You can power the camera with 12V or PoE.

This camera is ONVIF and NDAA compliant.

## FEATURES

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|---|---|
| **Software :** | 5.2.3 |
| **Model Type :** | Bullet |
| **Chipset :** | Novatek |
| **Image sensor :** | 1/3" CMOS |
| **Image size :** | 2688 × 1520 |
| **Electronic shutter :** | 1 / 3 s ~ 1 / 100000 s |
| **Iris Type :** | DC Iris |
| **Minimum illumination :** | 0.005 lux@F1.6,AGC ON;0 lux with IR |
| **Lens :** | 2.8~12 mm@F1.3 |
| **Focus :** | Motorized |
| **Lens Mount :** | Ø14 |
| **Field of view H/V/D :** | H.FoV: 100.0°~28.9°; ; V.Fov:54.5°~16.7°; ; D.FoV:118°~35 |
| **Day & Night :** | ICR |
| **WDR (wide dynamic range) :** | 120dB |
| **BLC :** | Yes |
| **HLC :** | Yes |
| **Defog :** | Yes |
| **S/N ratio :** | ≥50dB |
| **Digital NR :** | 3D DNR |
| **EIS :** | No |
| **Angle adjustement :** | Pan: 0°~360° ; Tilt: 0°~90° ; Rotation: 0°~360° |

## PICTURE

| | |
|---|---|
| **Video compression :** | Main stream: H.265+ / H.265 / H.264+ / H.264<br>Sub/Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG |
| **H265 Compression standard :** | Baseline Profile/Main Profile/High Profile |
| **Privacy mask :** | 4 mask |
| **Main stream :** | 4MP/2592×1520/2K/3MP/1080P ( 60Hz : 1 ~ 30fps; 50Hz: 1~25fps ) |
| **Sub Stream :** | 720P/D1/VGA/640×360/480×240/CIF ( 60Hz : 1 ~ 30fps; 50Hz: 1~25fps ) |
| **Third stream :** | 720P/D1/CIF/480×240 ( 60Hz : 1 ~ 30fps; 50Hz: 1~25fps ) |
| **Bitrate :** | 64 Kbps ~ 8 Mbps |
| **Bit rate Type :** | VBR / CBR |
| **Audio Compression :** | G711A / U |
| **Image settings :** | ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, Image Mirror, Image Flip, NR, etc. adjustable through client software or web browser |
| **Corridor mode :** | Yes |
| **ROI :** | Each ROI to be configured separately |

## INTERFACES

| | |
|---|---|
| **Network :** | RJ 45 10M/100M self-adaptive Ethernet port |
| **Surge Protection :** | Differential Mode±2KV, Common Mode±4KV |
| **Video Output :** | CVBS output (BNC × 1) |
| **Number of audio in :** | 1 |
| **Number of audio out :** | 1 |
| **Buit-in speaker :** | / |
| **Built-in microphone :** | 1CH built-in MIC |
| **Storage :** | Network remote storage; micro SD card storage up to 256 Gb |
| **Reset :** | Yes |
| **Alarm in :** | 1CH alarm input |
| **Alarm out :** | 1CH alarm output |

## ANALYTICS

| | |
|---|---|
| **Smart Event :** | Line crossing, region intrusion/entrance/exiting, loitering detection, illegal parking detection, abandoned/ missing object detection |
| **Statistics :** | Target counting by line/area, heat map |
| **Exception detection :** | Scene change, video blur and abnormal color detection, audio exception |
| **Face detection :** | Face detection and face capture |
| **Video Metadata :** | Simultaneously captures human body, motor vehicle and non-motor vehicle and extracts 13 human features, 4 motor vehicle features and 1 non-motor vehicle feature |

## DORI (BASED ON 2.8mm/2.8-12mm)

| | |
|---|---|
| **Detect :** | W: 58m (193ft) ; T: 205m (675ft) |
| **Observe :** | W: 23m (77ft) ; T: 82m (270ft) |
| **Recognize :** | W: 11m (38ft) ; T: 41m (135ft) |
| **Identify :** | W: 5m (19ft) ; T: 20m (67ft) |

## FUNCTIONS

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|---|---|
| **Remote monitoring :** | Web browser /NVR/GGM CENTRAL/GGM WATCH |
| **Web browser :** | Chrome 89.0+/Edge 89.0+/Firefox 87.0+/Safari 14.0+ |
| **Online connection :** | Support simultaneous monitoring for up to 8 users;<br>Support multi-stream real time transmission |
| **Network protocol :** | UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTMP, RTCP, PPPoE, DDNS,<br>SMTP, FTP, SNMP, HTTP, HTTP POST, 802.1x, UPnP, HTTPS, P2P, QoS |
| **Onvif version/Profile :** | ONVIF 24.12/M, T, S, G |
| **Smart Alarm :** | Motion detection, SMD, SD card error, SD card full, IP address conflict,<br>Network disconnection, sensor alarm, audio alarm |
| **General function :** | Watermark, video mask, heartbeat, image distortion correction, corridor pattern,<br>ANR, cloud upgrade |
| **Security :** | Video encryption, firmware encryption, HTTPS encryption, configuration<br>encryption, illegal login lock,IP address filtering, 802.1x authentication,<br>basic and digest authentication for HTTP/RTSP |
| **POE :** | Yes , IEEE802.3 af |
| **IR distance :** | 50 ~ 70 m |
| **Warm led distance :** | / |
| **IP protection rate :** | IP67 |
| **IK protection rate :** | / |

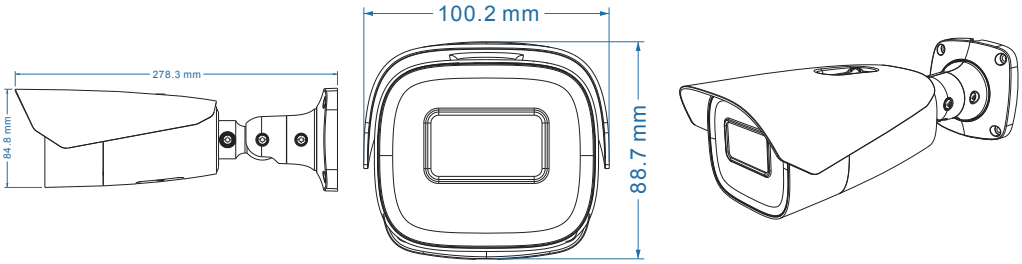
## OTHERS

| | |
|---|---|
| **Power supply :** | DC12V/PoE |
| **Power consumption :** | < 12.5W |
| **Storage conditions :** | - 30 °C ~ 65°C (-22°F~149°F), Humidity: less than 95 % (non-condensing) |
| **Operating conditions :** | - 30 °C ~ 60 °C (-22°F~140°F), Humidity: less than 95 % (non-condensing) |
| **Dimension :** | 278.3 x 100.2 x 88.7 |
| **Weight :** | Approx. 1.04KG |
| **Installation :** | Ceiling mounting; Wall mounting |
| **Certificate :** | CE, FCC |
| **Environmental protection :** | Directive EU RoHS, WEEE(2012/19/EU) , directive 94/62/EC and REACH(EC1907/2006) |

## PART-NUMBER

| PART-NUMBER | DESCRIPTION |
|---|---|
| **GGM IPAB4VM5IR** | Advanced Bullet series Res 4MP Mot Lens 5-50mm IR 100m IA functions IP67 |

## DIMENSIONS OF GGM IPAB4VM5IR




## ACCESSORIES FOR GGM IPAB4VM5IR



GGM AJB010



GGM AJB010+GGM ATMB003



GGM AJB010+GGM AWMB017+GGM ACMB001