



## FISHEYE NETWORK CAMERA GGM CAMF360



3-Megapixel CMOS Sensor

360° Sunround View

Triple codec  
H264, MPEG-4 & MJPEG

Day / Night function

WDR function

ePTZ

PoE

**GGM CAMF360** is a fisheye fixed dome network camera, featuring a detailed 3-Megapixel resolution sensor with superb image quality. Equipped with a fisheye lens for 180° panoramic view (wall mount) or 360° surround view (ceiling/floor/table mount) without blind spots, the camera is able to provide coverage of wide, open indoor areas, such as airports, shopping malls, train stations, retail stores, offices and more.

The **GGM CAMF360** offers various display layouts, including original surround view, panoramic view, and regional view for various mounting applications. With the latest cutting-edge image processing capabilities, hemispherical images captured from the fisheye camera can be converted into conventional rectilinear projection for viewing and analysis. In addition, in both the panoramic as well as regional viewing modes, users can utilize the ultra-smooth ePTZ function to easily zoom in and focus on a region of interest (ROI). The new cutting-edge pixel calculator function helps the user to ensure the image quality of a desired area.

### PRODUCT FEATURES

- 3-Megapixel CMOS Sensor
- 15 fps @ 1536x1536
- 1.19 mm Fisheye Lens for 180° Panoramic View and 360° Surround View
- Removable IR-cut Filter for Day & Night Function
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- ePTZ for Data Efficiency
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- Pixel Calculator for Image Clarity Measurement



## PRODUCT SPECIFICATION

### SYSTEM INFORMATION

CPU	Multimedia SoC (System-on-Chip)
Flash	128 MB
RAM	256 MB

### CAMERA FEATURES

Image Sensor	1/2.5" Progressive CMOS sensor
Max. Resolution	1536x1536
Lens Type	Fixed-focal
Focal Length	f = 1.19 mm
Aperture	F2.0
Field of View	180° (horizontal) 180° (vertical) 180° (diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Enhanced
Day/Night	Removable IR-cut filter for day & night function
Min. Illumination	0.2 Lux @ F2.0 (Color) 0.001 Lux @ F2.0 (B/W)
Pan/tilt/zoom	ePTZ: 12x digital zoom (12x on IE plug-in)
On-board Storage	MicroSD/SDHC/SDXC card slot

### VIDEO

Compression	H.264, MJPEG & MPEG-4
Max. Frame Rate	H.264: 15 fps at 1536x1536 MPEG-4: 15 fps at 1536x1536 MJPEG: 15 fps at 1536x1536
Max. Streams	3 simultaneous streams
S/N Ratio	Above 62 dB
Dynamic Range	57 dB
Video Streaming	Adjustable resolution, quality and bitrate
Image Settings	Adjustable image size, quality and bit rate Pixel Calculator Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks Scheduled profile settings

### AUDIO

Audio Capability	Audio input/output (full duplex)
Compression	GSM-AMR, AAC, G.711
Interface	Built-in microphone External microphone input
Effective Range	5 m

### NETWORK

Users	Live viewing for up to 10 clients
Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, UDP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X
Interface	10Base-T/100 BaseTX Ethernet (RJ-45) ONVIF

### INTELLIGENT VIDEO

Video Motion Detection	Five-window video motion detection
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### ALARM AND EVENT

Alarm Triggers	Video motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection
Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server File upload via HTTP, SMTP, FTP and NAS server

### GENERAL

Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output DC 12V power input Digital input x1 Digital output x1
LED Indicator	System power and status indicator
Power Input	DC 12V IEEE 802.3af PoE Class 2
Power Consumption	Max. 5.1 W (DC 12V) Max. 5.3 W (PoE)
Dimensions	Ø: 139 mm x 43 mm
Weight	Net: 353 g
Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
Operating T°	-25°C ~ 50°C (-13°F ~ 122°F)

### SYSTEM REQUIREMENTS

Operating System	Microsoft Windows 7/Vista/XP/2000
Web Browser	Mozilla Firefox 7 ~ 10 (streaming only) Internet Explorer 7.x or 8.x
Other Players	VLC: 1.1.11 or above QuickTime: 7 or above

### WARRANTY

24 months

### YOUR POINT OF CONTACT