

FISHEYE NETWORK CAMERA
GGM CAMF360M



HD RESOLUTION 2048 X 1536	360° ANGLE OF VIEW 360°	DAY / NIGHT FUNCTION DAY / NIGHT	IP66 WEATHER-PROOF IP66	ePTZ FUNCTION ePTZ	POE POE
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- 3-Megapixel CMOS Sensor
- 360° Sunround View
- Triple codec H264, MPEG-4 & MJPEG
- Day / Night function
- Vandal-proof IP66
- ePTZ
- PoE

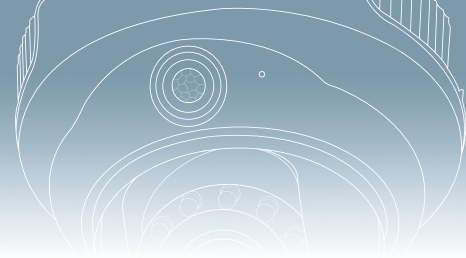
GGM CAMF360M is the first fisheye fixed dome network camera, featuring detailed 3-Megapixel resolution with superb image quality. Equipped with a fisheye lens for 180° panoramic view (wall mount) or 360° surround view (ceiling/floor/table mount) without blind spots, this camera is able to provide an 8X wider field of view than a standard VGA camera, significantly reducing the need for multiple camera installations. It is extremely suitable for monitoring open areas such as airports, shopping malls, parking lots, retail stores, offices, and much more.

The **GGM CAMF360M** offers more than seven display layouts, including original surround view, panoramic views, and regional views for various mounting applications. With the latest cutting-edge image processing, hemispherical images captured from the fisheye camera can be converted into conventional rectilinear projection for viewing and analysis. In addition, in the panoramic and regional viewing modes, users can utilize the ultra-smooth ePTZ function to easily zoom in and focus on a region of interest (ROI).

The **GGM CAMF360M** features a removable IR-cut filter, maintaining clear images 24 hours a day. Its IP66-rated housing is designed to help the camera body withstand rain and dust and ensures operation under a multitude of harsh weather conditions. Additionally, the vandal-proof IK10-rated housing effectively provides robust protection from vandalism. Together with 802.3af compliant PoE, microSD/SDHC card slot for on-board storage, EN50155 mobile surveillance, and iPad applications, the **GGM CAMF360M** is indisputably the top choice for constructing a robust surveillance system with the greatest coverage possible.

PRODUCT FEATURES

- 3-Megapixel CMOS Sensor
- 1.27 mm Fisheye Lens for 180° panoramic view or 360° surround view
- Removable IR-cut Filter for Day and Night Function
- EN50155 Compliance for Professional Mobile Surveillance
- Real-time H.264, MPEG-4 and MJPEG Compression (Triple Codec)
- Video Cropping for Bandwidth Savings
- ePTZ for Data Efficiency
- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage



PRODUCT SPECIFICATION

SYSTEM

CPU	TI DM368 SoC
Flash	128MB
RAM	256MB
Embedded OS	Linux 2.6

LENS

Board lens, Fixed, f = 1.27mm, F2.8
Removable IR-cut filter for day & night

ANGLE OF VIEW

Vertical	180°
Horizontal	180°

SHUTTER TIME

1/5 sec. to 1/32,000 sec.

IMAGE SENSOR

1/2" CMOS Sensor in 2048x1536 resolution

MINIMUM ILLUMINATION

1.0 Lux @ F2.8

VIDEO

Compression	H.264, MJPEG & MPEG-4
Streaming	Multiple simultaneous streams H.264 streaming over UDP, TCP, HTTP or HTTPS MPEG-4 streaming over UDP, TCP, HTTP or HTTPS H.264/MPEG-4 multicast streaming MJPEG streaming over HTTP or HTTPS Supports activity adaptive streaming for dynamic frame rate control Supports 3GPP mobile surveillance
Frame rates	H.264 : Up to 15 fps at 1536x1536 Up to 12 fps at 2048x1536 MPEG-4 : Up to 15 fps at 1536x1536 MJPEG : Up to 15 fps at 1536x1536 Up to 12 fps at 2048x1536

IMAGE SETTINGS

Adjustable image size, quality and bit rate
Time stamp and text caption overlay
Flip & mirror
Configurable brightness, contrast, saturation, sharpness, white balance and exposure
AGC, AWB, AES
Automatic, manual or scheduled day/night mode
BLC (Backlight Compensation)
Supports privacy masks

AUDIO

Compression	GSM-AMR speech encoding, bit rate: 4.75 kbps to 12.2 kbps MPEG-4 AAC audio encoding, bit rate: 16 kbps to 128 kbps G.711 audio encoding, bit rate: 64 kbps, μ -Law or A-Law mode selectable
Interface	External microphone input Audio output Supports two-way audio Supports audio mute

NETWORKING

	10/100 Mbps Ethernet, RJ-45 Onvif support
Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, and 802.1X

ALARM AND EVENT MANAGEMENT

Quintuple window video motion detection
Tamper detection
One D/I and one D/O for external sensor and alarm
Event notification using HTTP, SMTP or FTP
Local recording of MP4 file

ON-BOARD STORAGE

MicroSD/SDHC/SDXC card slot
Stores snapshots and video clips

SECURITY

Multi-level user access with password protection
IP address filtering
HTTPS encrypted data transmission
802.1X port-based authentication for network protection

USERS

Live viewing for up to 10 clients

DIMENSIONS

Camera	Ø 145 mm (D) x 52 mm (H)
Cable length	630 mm
Cable diameter	Ø 7 mm
Max width	Ø 18 mm

LED INDICATOR

System power and status indicator
System activity and network link indicator

POWER

12V DC
802.3af compliant Power-over-Ethernet

HOUSING

Vandal-proof IK10-rated metal housing
Weather-proof IP66-rated housing

APPROVALS

CE, LVD, FCC, VCCI, C-Tick
EN50155

OPERATING ENVIRONMENT

Temperature	-25°C ~ 50°C (13 ~ 122°C)
Humidity	90% RH

VIEWING SYSTEM REQUIREMENT

OS	Microsoft Windows 7/Vista/XP/2000
Browser	Mozilla Firefox, Internet Explorer 7.x or above
Cell phone	3GPP player
Real Player	10.5 or above
Quick Time	6.5 or above

INSTALLATION, MANAGEMENT AND MAINTENANCE

Installation Wizard 2
32-CH ST7501 recording software
Supports firmware upgrade

APPLICATION

SDK available for application development and system integration

WARRANTY

24 months

Your point of contact

