GIGAMEDIA
PROFESSIONNEL

Vidéo IP

GGM CAMF28M

The **GGM CAMF28M** is a high-end 2-megapixel network bullet camera for outdoor surveillance. With high resolution and a combination of outdoor-specific features such as concealed wiring to prevent tampering, the **GGM CAMF28M** is the camera of choice for applications such as parking lots, gas stations, and building entrances.

The **GGM CAMF28M** boasts high-definition 2-megapixel (1600 x 1200) resolution, allowing for the delivery of extremely detailed images and coverage 6 times larger than a VGA camera. To maximize the benefit of the 2-megapixel sensor, the **GGM CAMF28M** employs several innovative technologies for optimization bandwidth efficiency. The ePTZ function enables users to quickly move to a target area for close-up shots without moving the camera physically. Users can also receive only the portions of the images they are interested in via the cropping function. Furthermore, multiple video streams can be delivered simultaneously in different resolutions, frame rates, and image qualities for viewing on different platforms so as to meet different needs or bandwidth constraints. The **GGM CAMF28M** also offers activity adaptive streaming support that dynamically allocates bandwidth according to the video content and trigger state. Aimed at outdoor surveillance, the **GGM CAMF28M** features auto-iris capability to protect the lens from damage induced by direct sunlight.

To adapt to light changes throughout the day, the camera is furnished with a removable IR-cut filter and IR illuminators for superior image quality around the clock. The **GGM CAMF28M** also comes with an IP67-rated housing that offers protection against rain and dust to ensure functional operation in all types of weather conditions. For easy management and protection against tempering and vandalism, the IP7361 is also equipped with a mounting bracket that conceals all cables within the bracket.

With other advanced features such as tamper detection, 802.3af compliant PoE, SD/SDHC card on-board storage, and two-way audio via SIP protocol, the **GGM CAMF28M** is an all-in-one network camera for outdoor environments.

MAIN ASSETS

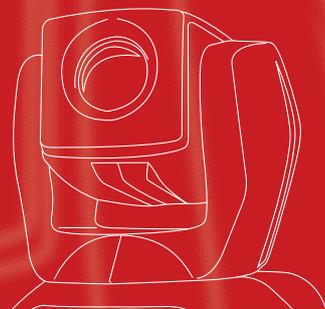|	
2MP	2 megapixels resolution at 15 fps
IP67	IP 67
SD SDHC	micro SD SDHC card
☼	Day/Night function
REC	Privacy mask

PRODUCT FEATURES

- → 2 megapixel résolution at 15 fps
- → CMOS sensor
- → Sensibility 0 lux IR LED ON
- → Dual Codec MJPEG/MPEG-4 simultaneously
- → Weather proof IP67

GIGAMEDIA

PROFESSIONNEL

PRODUCT SPECIFICATION

GGM CAMF28M

SYSTEM

CPU	Mozart 120 SoC
Flash :	16MB
RAM :	128MB + 128MB

Embedded OS Linux 2.6

LENS

Board lens vari-focal, f = 3 ~ 9 mm, F1.2 (wide), F2.1 (tele), auto-iris
Removable IR-cut filter for day & night function

ANGLE OF VIEW

Horizontal 31.7° ~ 93.0°
Vertical   23.8° ~ 68.4°

SHUTTER TIME

1/5 sec to 1/40000 sec.

IMAGE SENSOR

1/3.2" CMOS sensor in 1600x1200 resolution

MINIMUM ILLUMINATION

0.1Lux /F1.2
0 Lux /F1.2 (IR LED on)

IR ILLUMINATORS

Built-in IR illuminators, effective up to 25 meters

VIDEO

Compression MJPEG & MPEG-4
Streaming Simultaneous multiple streams
- MPEG-4 streaming over UDP, TCP, HTTP or HTTPS
- MPEG-4 multicast streaming
- MJPEG streaming over HTTP or HTTPS
Supports activity adaptive streaming for dynamic frame rate control
Supports video cropping for bandwidth saving
Supports ePTZ for data efficiency
Supports 3GPP mobile surveillance
Frame rates MPEG-4
- up to 30 fps at 800x600
- up to 10 fps at 1600x1200
MJPEG
- up to 30 fps at 800x600
- up to 15 fps at 1600x1200

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
Interface	External microphone input
Audio output	Supports two-way audio via SIP protocol Supports audio mute

NETWORKING

	10/100 Mbps Ethernet, RJ-45
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

Triple-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

SD/SDHC 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

Φ 83 x 210 mm

WEIGHT

Net   1600g (Including bracket)

LED INDICATOR

System restore status indicator

POWER

12V DC
24V AC
Power consumption: Max. 7 W
802.3af compliant Power-over-Ethernet

HOUSING

Weather-proof IP67-rated housing

APPROVALS

CE, LVD, FCC, VCCI, C-Tick

OPERATING ENVIRONMENTS

Temperature -20 ~ 50 °C (-4 ~ 122 °F)
Humidity   90% RH

VIEWING SYSTEM REQUIREMENTS

OS	Microsoft windows 2000/XP/Vista
Browser	Mozilla Firefox, Internet Explorer 6.x or above
Cell phone	3GPP player
Real Player	10.5 or above
Quick Time	6.5 or above

INSTALLATION, MANAGEMENT AND MAINTENANCE

Mounting bracket w/ cable concealment
RS-485 interface for scanners, pan/tilts
Installation Wizard 2
Supports firmware upgrade

COMPATIBILITY

GGM SOFTIPXX (april 2010)
GGM NVR4250G, GGM NVR 8500G, GGM NVR20CAM, GGM NVR40CAM (january 2010)
IMI STANDARD (ask us)

APPLICATIONS

SDK available for application development and system integration

WARRANTY

24 months