

## NETWORK BULLET CAMERA GGM CAMF28MHD



CMOS sensor

1-Megapixel

Triple codec  
H264, MPEG-4 & MJPEG

Day / Night function

Weather-proof IP67

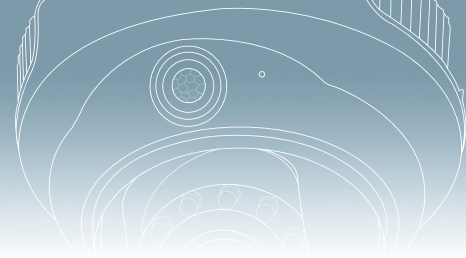
WDR Pro

**GGM CAMF28MH** network bullet camera features an HD WDR CMOS sensor for use in challenging lighting conditions. The resulting WDR Pro feature enables the camera to capture both the dark and bright parts of an image with double shutters, enabling two frames to be combined to generate a highly realistic image representative of the original scene, providing video quality close to the capabilities of a human eye. The P-iris lens controls the iris with extreme precision with its built-in stepper motor, maintaining the opening at an optimal level at all times, resulting in superior image clarity and depth of field as well as image quality. As such, the **GGM CAMF28MH** is suitable for high contrast environments such as lobby entrances, parking lots, ATMs, loading areas, and much more.

The day and night functionality and the IP67-rated weatherproof housing of the **GGM CAMF28MH** allows users to easily build a cost-effective IP surveillance system without additional accessories. Incorporating an IR-cut filter that can be removed automatically at night and built-in IR illuminators with coverage for up to 20 meters, the IP8335H is an outstanding choice for a 24-hour surveillance solution.

### PRODUCT FEATURES

- 1-Megapixel CMOS sensor
- 3 ~ 9 mm Vari-focal, P-iris lens
- Removable IR-cut filter for day & night function
- Built-in IR illuminators, effective up to 20 m
- WDR Pro for unparalleled visibility in high contrast environments
- Real-time H.264, MPEG-4 and MJPEG compression (triple codec)
- Weather-proof IP67-rated housing
- Built-in 802.3af compliant PoE
- Built-in MicroSD/SDHC card slot for on-board storage
- Mounting bracket with cable management for protected installation



## PRODUCT SPECIFICATION

<b>SYSTEM</b>		<b>IMAGE SETTINGS</b>		<b>WEIGHT</b>	
CPU	Multimedia SoC	Adjustable image size, quality and bit rate	Time stamp and text caption overlay	Net	996 g
Flash	128MB	Flip & mirror	Configurable brightness, contrast, saturation, sharpness, white balance and exposure	<b>LED INDICATOR</b>	
RAM	256MB	AGC, AWB, AES	Automatic, manual or scheduled day/night mode	System power and status indicator	
Embedded OS	Linux 2.6	WDR Pro	Supports privacy masks	System activity and network link indicator	
<b>LENS</b>		<b>AUDIO</b>		<b>POWER</b>	
Board lens, vari-focal, f = 3 ~ 9 mm, F1.2 (wide), F2.1 (tele), P-iris		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, $\mu$ -Law or A-Law mode selectable.	12 V DC	
Removable IR-cut filter for day & night function		Interface	External microphone input	24 V AC	
<b>ANGLE OF VIEW</b>		Supports two-way audio		Power consumption : Max. 8.6 W	
Horizontal	85.7°~31.46°	Supports audio mute		802.3af compliant Power-over-Ethernet (Class 3)	
Vertical	73.16°~25.4°	<b>NETWORKING</b>		<b>HOUSING</b>	
Diagonal	99.82°~39.67°	10/100 Mbps Ethernet, RJ-45		Weather-proof IP67-rated housing	
<b>SHUTTER TIME</b>		Onvif support		<b>APPROVALS</b>	
1/5 sec. to 1/25,000 sec		Protocols		CE, LVD, FCC, VCCI, C-Tick, UL	
<b>IMAGE SENSOR</b>		IPV4, IPV6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP and 802.1X		<b>OPERATING ENVIRONMENT</b>	
1/2.7" CMOS sensor in 1280 x 720 resolution		<b>ALARM AND EVENT MANAGEMENT</b>		Temperature	
<b>MINIMUM ILLUMINATION</b>		Triple-window video motion detection		-20 °C ~ 50 °C (-4°F ~ 122 °F)	
0.8 lx @ F1.2 (Color)		Tamper detection		Humidity	
0.001 lx @ F1.2 (B/W)		3 D/I and 1 D/O for external sensor and alarm		90% RH	
<b>IR ILLUMINATORS</b>		Event notification using HTTP, SMTP or FTP		<b>VIEWING SYSTEM REQUIREMENT</b>	
Built-in IR illuminators, effective up to 20 meters		Local recording of MP4 file		OS	
IR LEDx12		<b>SECURITY</b>		Microsoft Windows 7/Vista/XP/2000	
<b>VIDEO</b>		Multi-level user access with password protection		Browser	
Compression	H.264, MJPEG & MPEG-4	IP address filtering		Mozilla Firefox, Internet Explorer 6.x or above	
Streaming	Multiple simultaneous streams	HTTPS encrypted data transmission		Cell phone	
	H.264 streaming over UDP, TCP, HTTP or HTTPS	802.1X port-based authentication for network protection		3GPP player	
	H.264 streaming over UDP, TCP, HTTP or HTTPS	<b>USERS</b>		Real Player	
	MPEG-4 streaming over UDP, TCP, HTTP or HTTPS	Live viewing for up to 10 clients		10.5 or above	
	H.264/MPEG-4 multicast streaming			Quick Time	
	MJPEG streaming over HTTP or HTTPS			6.5 or above	
	Supports activity adaptive streaming for dynamic frame rate control			<b>INSTALLATION, MANAGEMENT AND MAINTENANCE</b>	
	Supports video cropping for bandwidth saving			Mounting bracket with cable concealment	
	Supports ePTZ for data efficiency			RS-485 interface for scanners, pan/tilts	
	Supports 3GPP mobile surveillance			Installation Wizard 2	
Frame rates	H.264 : Up to 25 fps at 1280x720			32-CH ST7501 recording software	
	MPEG-4 : Up to 25 fps at 1280x720			Supports firmware upgrade	
	MJPEG : Up to 25 fps at 1280x720			<b>APPLICATION</b>	
				SDK available for application development and system integration	
				<b>WARRANTY</b>	
				24 months	

### YOUR POINT OF CONTACT