



Features

- ATEX/IECEx certified; Ex db IIC T6 Gb / Ex tb IIIC T80°C Db explosion-proof marking
- Rated for Gas Zone 1 & Zone 2 (Groups IIA, IIB, IIC; Temperature Classes T1~T6); Dust Zone 21 & Zone 22
- 1/3" CMOS image sensor outputs maximum 4MP (2688 × 1520) resolution @ 30 fps
- 2.8–12 mm motorized varifocal lens
- Smart IR, up to 60 m (197 ft) IR distance
- Smart H.264+ and H.265+ dual-stream encoding with configurable ROI to optimize bandwidth and storage
- Hardware-level image enhancement including WDR, 3D DNR, HLC, BLC, rotation mode, and digital watermarking
- Built-in intelligent perimeter protection featuring intrusion and tripwire detection
- Automated anomaly detection for motion, video tampering, scene changes, and abnormal audio events
- Dual power input supporting both 12V DC and PoE
- IP66, IP68 (2m 2h), IP69 enclosure protection rating
- Housing available in 304 or 316L stainless steel, with an optional electropolished paint finish or corrosion-resistant coating

Available Models

MODEL	MATERIAL
2MEBS04-IP4MZ	304 Stainless Steel
2MEBS16-IP4MZ	316L Stainless Steel

Specifications

CAMERA			
Image Sensor		1/3" 4 Megapixel progressive CMOS	
Effective Pixels (W × H)		2688 × 1520	
ROM		128 MB	
RAM		512 MB	
Scanning System		Progressive	
Electronic Shutter Speed		Auto/Manual ⅓ sec. to 1/100,000 sec.	
Minimum Illumination		0.005 lux @ F1.5	
IR Distance		60 m (197 ft)	
IR On/Off Control		Auto/Manual	
IR LED Quantity		4 IR LEDs	
LENS			
Lens Type		Motorized varifocal	
Mount Type		φ14	
Focal Length		2.8–12 mm	
Maximum Aperture		F1.5	
Field of View	Horizontal	104°–27°	
	Vertical	55°–15°	
	Diagonal	124°–31°	
Iris Type		Fixed aperture	
Close Focus Distance		0.8 m (2.6 ft)	
DORI Distance	Lens	2.8 mm	12 mm
	Detect	64 m (210 ft)	222 m (728.3 ft)
	Observe	25.6 m (84 ft)	88.8 m (291.3 ft)
	Recognize	12.8 m (42 ft)	44.4 m (145.7 ft)
	Identify	6.4 m (21 ft)	22.2 m (72.8 ft)
VIDEO			
Video Compression		H.265, H.264, H.264H, H.264B, MJPEG	
Smart Codec		Supported	

Specifications

Video Frame Rate	Main Stream	2688 × 1520 @ 1–25/30 fps
	Sub Stream	704 × 576 @ 1–25 fps; 704 × 480 @ 1–30 fps
	Third Stream	1280 × 720 @ 1–25/30 fps
Streams		Triple streams
Resolution		4M (2688 × 1520); 3M (2304 × 1296); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); D1 (704 × 480); VGA (640 × 480); CIF (352 × 288); CIF (352 × 240)
Bit Rate Control		CBR/VBR
Video Bit Rate	H.264	3 Kbps to 8192 Kbps
	H.265	3 Kbps to 8192 Kbps
IMAGE		
Day/Night		Auto (ICR), Color, B/W
BLC		Supported
HLC		Supported
WDR		120 dB
White Balance		Auto, Natural, Street lamp, Outdoor, Manual, Regional custom
Gain Control		Auto/Manual
Noise Reduction		3D DNR
Privacy Masking		Up to 4 areas
ROI		Up to 4 areas
Motion Detection		OFF/ON (Up to 4 areas, rectangular)
Smart IR		Supported
Image Rotation		0°, 90° (1920 × 1080 resolution), 180°, 270° (1920 × 1080 resolution)
Mirror		Supported
Scene Self-Adaptation		Supported
AUDIO (OPTIONAL)		
Audio Compression		G.711a, G.711Mu, G726, AAC

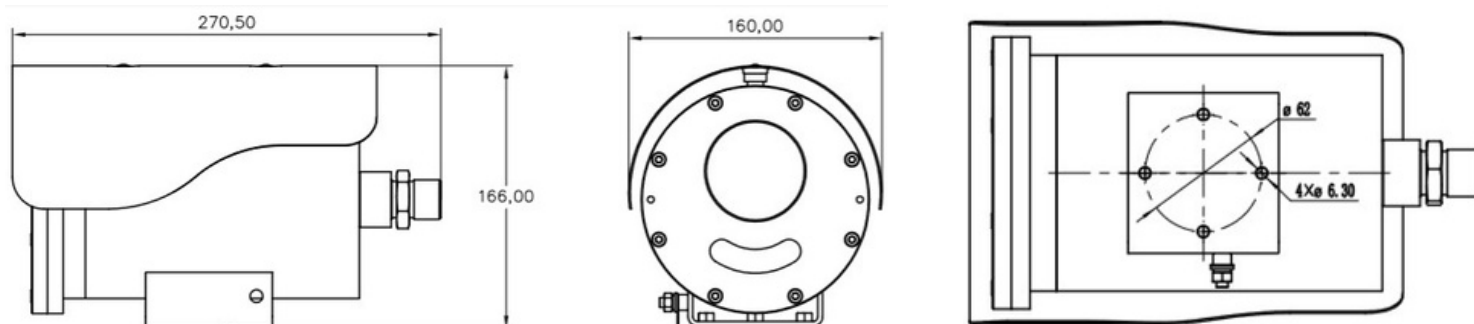
INTELLIGENT		
Perimeter Protection		Tripwire, Intrusion (recognition of human and vehicle)
Intelligent Search		Works with Smart NVR to perform refined intelligent searches, extract key events, and merge event videos
NETWORK		
Network		RJ-45 (10/100 Base-T)
Protocol		IPv4, IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, 802.1x, SNMP
Interoperability		ONVIF (Profile S, Profile G), CGI, P2P, Milestone, Genetec
User/Host		20 (Total bandwidth: 64 M)
Browser		IE8, IE9, IE11, Chrome, Firefox
Management Software		Smart PSS, DSS, DMSS
Mobile Phone		IOS, Android
STORAGE		
Edge Storage		MicroSD card up to 256 GB
Network Storage		FTP, SFTP, Dahua Cloud, NAS
PORT (OPTIONAL)		
Audio I/O	Input	1-channel RCA port
	Output	1-channel RCA port
Alarm I/O	Input	1-channel 5 mA 3V–5V DC
	Output	1-channel 300 mA 12V DC
ENVIRONMENT		
Operating Conditions	Temperature	-40°C to +60°C (-40°F to +140°F)
	Humidity	≤95% RH (non-condensing)
Storage Conditions	Temperature	-40°C to +60°C (-40°F to +140°F)
	Humidity	≤95% RH (non-condensing)

Specifications

POWER		
Power Supply		12V DC / PoE (802.3af)
Power Consumption		<9.8 W
CERTIFICATION		
Certifications		ATEX, IECEx certified
Explosion-Proof Certification		DNV 22 ATEX 51565X IECEx DNV 22.0097X
Explosion-Proof Marking	ATEX	⚡ II 2G Ex db IIC T6 Gb ⚡ II 2D Ex tb IIIC T80°C Db
	IECEx	Ex db IIC T6 Gb / Ex tb IIIC T80°C Db

STRUCTURE	
Housing Material	304 / 316L Stainless Steel
Ingress Protection	IP66, IP68 (2m/2h), IP69
Pigtail Cable	2 m standard combined cable (power+UTP)
Dimensions (L × W × H)	270.5 mm × 166 mm × 160 mm (10.6" × 6.5" × 6.3")
Net Weight	5.6 kg (12.34 lb)
Gross Weight	6.5 kg (14.33 lb)
Bracket	Wall bracket with adapter

Camera Dimensions – [mm]



Accessories

Wall bracket with adapter



MODEL	2MEWB04	2MEWB16
Material	304 Stainless Steel	316L Stainless Steel
Maximum Load	20 kg (44.1 lb)	
Gross Weight	2.5 kg (5.5 lb)	

Bracket Dimensions – [mm]

