



Features

- Ex ib I Mb explosion-proof marking
- Coal mining intrinsically safe mini PTZ dome camera
- Speed dome for rotation surveillance
- High quality image with 4MP, 1/2.8" CMOS sensor
- 2.8–12 mm lens, 4x optical zoom, 16x digital zoom
- 304/316L Stainless steel construction
- IP68 rated
- Aux lights for up to 20 meters night vision
- DC 12V voltage input
- With audio function, which can support pick up sound and audio output
- Suitable for coal mining, where there is an explosive mixture of methane and coal dust underground, but no corrosive gas that breaks the insulation

Specifications

CERTIFICATION		
Marking		Ex ib I Mb
Certificate No.		CCCMT21.0425
CAMERA		
Image Sensor		1/2.8" Progressive Scan CMOS
Max. Image Resolution		2560 × 1440 (4MP)
Min. Illumination	Color	0.005 Lux @(F1.5, AFC ON), 0 Lux with IR
	B&W	0.001 Lux @(F1.5, AGC ON), 0 Lux with IR
Shutter		1/1–1/30,000 s
Day & Night		ICR
S/N		>52 dB
WDR		120 dB
LENS		
Focal Length		2.8–12 mm
Optical Zoom		4x
Digital Zoom		16x
Aperture		Max. F1.5
Field of View		97°–32° (Wide to Tele)
Zoom Speed		Approx. 2 s
ILLUMINATOR		
Supplement Light		IR (Infrared)
Light Range		20 m (65.6 ft)
Wave Length		850 nm
VIDEO		
Frame Rate	Main Stream	50Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720), 50 fps (1280 × 960, 1280 × 720) 60Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720), 60 fps (1280 × 960, 1280 × 720)
	Sub Stream	50Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)

Specifications

Video Compression		H.265, H.264, MJPEG
H.264 Type		Baseline Profile, Main Profile, High Profile
Region of Interest (ROI)		Supported
Privacy Mask		24 programmable areas
IMAGE		
Image Settings		Saturation, Brightness, Contrast, Sharpness, Gain, White Balance (adjustable by client software or web browser)
SVC		Supported
HLC		Supported
BLC		Supported
Focus		Auto / Manual / Semi Auto
Digital Noise Reduction (DNR)		3D DNR
Environment Noise Filtering		Supported
Regional Focus		Yes
Regional Exposure		Yes
PTZ		
Pan	Angle	0°–355°
	Speed	0.1–100°/s
	Preset Speed	100°/s
Tilt	Angle	0°–90°
	Speed	0.1–100°/s
	Preset Speed	100°/s
Preset		300
Preset Freezing		Yes
Keep Watch		Preset
3D Positioning		Supported

Azimuth Information Display		Supported
Timed Task		Preset / Restart / Camera Verify
Power-Off Memory		Yes
EVENTS		
Smart Event		Intrusion detection, Line crossing detection, Exit region detection, Enter region detection
Alarm Linkage		Alarm actions, such as Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.
AUDIO		
Audio I/O		1/1
Audio Compression		G.711alaw / G.711ulaw / G.722.1 / G.726 / MP2L2 / PCM / AAC
Audio Compression Rate	AAC	16 Kbps, 32 Kbps, 64 Kbps
	MP2L2	2 Kbps, 40 Kbps, 48 Kbps, 56 Kbps, 64 Kbps, 80 Kbps, 96 Kbps, 112 Kbps, 128 Kbps, 114 Kbps, 160 Kbps, 192 Kbps
Audio Sampling Rate	AAC	16 kHz, 32 kHz, 48 kHz
	MP2L2	16 kHz, 32 kHz, 48 kHz
	PCM	8 kHz, 16 kHz, 32 kHz, 64 kHz
STORAGE		
Edge Storage		Built-in memory card slot, supports MicroSD/SDHC/SDXC, up to 256 GB
Network Storage		NAS (NFS, SMB/CIFS), ANR
NETWORK		
Compatible Integration		ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK
Protocols		IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, DHCP, PPPoE, Bonjour
Simultaneous Live View		Up to 20 channels
Web Browser		IE10–11, Chrome 67+, Firefox 52+, Safari 11+



Specifications

SECURITY		
User/Host	Users	Up to 32 users
	Levels	3 levels: Administrator, Operator, User
Security		User authentication (ID and PW), Host authentication (MAC address), HTTPS encryption, IEEE 802.1x port-based network access control, IP address filtering
INTERFACE		
Alarm I/O		1/1
Ethernet Interface		1 RJ45 10 M/100 M Ethernet Interface; PoE (802.3at, class4)
Cable Output		Integrated cable, 2 m (6.56 ft) long
ELECTRICAL		
Power		DC 12V
Power Consumption		Max. 11.2 W
ENVIRONMENTAL		
Atmospheric Pressure		80–106 KPa
Operating Temperature		0°C to 40°C (32°F to 104°F)
Operating Humidity		≤95% RH (+25°C)
MECHANICAL		
Housing Material		Stainless Steel 304 or 316L
Ingress Protection		IP68
GENERAL		
Dimensions (L × W × H)		312 × 233 × 263 mm (12.3" × 9.2" × 10.4")
Weight		7.8 kg (17.2 lb)

Dimensions

