



Features

- Rated Ex db IIC T6 Gb and Ex tb IIIC T80°C Db for safe operation in hazardous environments
- Captures 4MP (2688 × 1520) high-definition video at 30fps
- 6.4-160mm focal length and 25x optical zoom enables long-distance monitoring
- Includes auxiliary lighting for nighttime visibility at distances of up to 80 meters
- Supports advanced detection features such as motion detection, tripwire (boundary crossing), area intrusion, and audio detection
- Rated IP66/IP68 for maximum protection from water and dust ingress
- Utilizes H.265+, H.265, and H.264 compression standards to optimize bandwidth and storage efficiency without compromising image quality
- Built-in Micro SD/SDHC/SDXC card slot supporting up to 256GB
- Supports ONVIF and GB28181 protocols, ensuring integration with third-party platforms and mainstream manufacturer systems

Specifications

CERTIFICATION					
Marking	Ex db IIC T6 Gb/Ex tb IIIC T80°C Db				
MECHANICAL					
Housing Material	304 or 316L stainless steel				
Ingress Protection	IP66, IP68				
Cable Thread Hole	1pcs M25*1.25 or G3/4 or NPT3/4				
Wiper	No				
ELECTRICAL					
Voltage	DC 12V, AC 24V, PoE+ (customized)				
Max. Power	65W				
Night Vision Distance	<table border="1"> <tr> <td>IR Lights</td> <td>80 m (262.5 ft)</td> </tr> <tr> <td>White Lights</td> <td>60 m (197 ft)</td> </tr> </table>	IR Lights	80 m (262.5 ft)	White Lights	60 m (197 ft)
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White Lights	60 m (197 ft)				
ENVIRONMENTAL					
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)				
Atmospheric Pressure	80-106 KPa				
Relative Humidity	≤95% RH (no condensation)				
CAMERA					
Image Sensor	1/1.8" Progressive Scan CMOS				

Effective Pixel	4 megapixels	
Min. Illumination	Color	0.0005 Lux @(F1.5,AGC ON)
	B/W	0.0001Lux @(F1.5,AGC ON)
SNR	>52 dB	
Day & Night	Auto ICR Filter Switch, Auto, Color, B/W	
LENS		
Focal Length	6.4-160 mm, 25x optical zoom, 16x digital zoom	
Aperture	Auto/Manual, Max. Aperture: F1.5~F3.4	
Shutter	1/25~1/100,000s; slow shutter support	
Horizontal FOV	62°-3.5° (wide angle - telescopic)	
Close-Up Distance	100-1500mm (Wide-angle - Telescopic)	
VIDEO		
Video Compression Standard	H.265 / H.264 / H.265+ / H.264+	
H.265 Encoding Type	BaseLine Profile / Main Profile / High Profile	
H.264 Encoding Type	BaseLine Profile / Main Profile / High Profile	
Video Compression Bit Rate	64 Kbps~16 Mbps	



Specifications

Frame Rate	Primary Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720); 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
	Second Stream	50 Hz: 25 fps (720 × 576, 352 × 288); 60 Hz: 30 fps (720 × 576, 352 × 288)
	Third Stream	50 Hz: 25 fps (1280 × 720, 720 × 576, 352 × 288); 60 Hz: 30 fps (1280 × 720, 720 × 576, 352 × 288)
Audio Compression Standard	G.711A / G.711U / G.726 / AAC	
Audio Compression Bit Rate	16 Kbps	
IMAGE		
Image Settings	Brightness, Contrast, Saturation, Sharpness, Chroma, Browser-adjustable	
Backlight Compensation	Support, customizable area	
Strong Light Suppression	Support, eclipse function	
Exposure Mode	Auto, Manual, Anti-Drag, Low Light Priority, High Light Priority, Aperture Priority, Shutter Priority, Lock Mode	
Focus Mode	Auto / Manual / Semi-Auto	
Area Focus	Support	
Electronic Fogging	Support	
Electronic Stabilization	Support	
Day/Night Mode	Auto, Manual, Image Algorithm, Timing, Serial Trigger	
Digital Noise Reduction	3D DNR	
Image Overlay	BMP 24-bit image overlay, customizable regions	
Translucency	Automatic, region selection	
Region of Interest (ROI)	3 streams, set 4 fixed regions	
Intelligent Detection	Motion detection, video masking, tripwire (boundary crossing) detection, perimeter (area intrusion), lost items, items left behind, audio detection, etc.	

STORAGE

Edge Storage	256 GB Micro SD/SDHC/SDXC card Disconnected local storage
Network Storage	NAS (NFS, SMB/CIFS supported)
NETWORK	
Supported Protocols	TCP/IP, MTU, HTTP, HTTPS, FTP, DHCP, DDNS, UPNP, RTSP, RTMP, NTP, SMTP, PPPoE
Application Programming Interface	ONVIF, GB28181 protocol, SDK and third-party platforms, private protocols of mainstream manufacturers

GENERAL

Cable	Integrated cable
Size (Ø × H)	303.5 × 355.5mm (11.9" × 14")
Weight	17.3 kg (38 lb)
Mounting Methods	Wall, Pole
Optional Bracket	ZAZ637-B (Wall), ZAZ637-D (Ceiling)

Dimensions

