HWT-M2181-10-ELI(8-32mm)

1T 8MP IR/White-Light Al Bullet Camera





- ▶ 1TOPS computing power
- Supports multi-algorithm switchover, behavior analysis, crowd flow analysis, target detection, person detection, object (motor vehicle, non-motorized vehicle, and pedestrian) classification, vehicle recognition, vehicle event detection, and traffic flow statistics
- Supports backlight adaptation and overcast adaptation
- ▶ 1/1.8" CMOS sensor
- ▶ Online loading and upgrade of algorithms
- ▶ 120 dB super wide dynamic range (WDR), ensuring that both foreground and background objects are clearly identified in environments with sharp light contrast
- ▶ Supports switchover among multiple algorithms





Model	HWT-M2181-10-ELI((8-32mm)				
Major Specifications						
	Computing power	1TOPS				
Main control	Memory	DDR4 1.0 GB				
	Flash type	SPI NAND FLASH 512.0 MB				
	Max capacity	MicroSD card slot that supports microSDHC/microSDXC; maximum memory card capacity: 256 GB				
Camera	Focal length	8-32mm				
	Max Aperture	F1.6(W)-F1.7(T)				
	Image sensor	1/1.8" CMOS/8MP 3840(H)*2160(V)				
	Lens aperture type	P-iris (DC iris+Hall sensor)				
	Angle of view	Horizontal:15°(T) to 42°(W); Vertical:8.4°(T) to 22.8°(W)				
	IR range	50m				
	Illumination distance	30m				
	Digital zoom/Optical zoom	16X/4X				
	DORI		D(m)	O(m)	R(m)	I(m)
	(Complied to the EN	W	160.0	64.5	32.0	16.0
	62676-4)	Т	640.0	258.1	128.0	64.0

Target/Body	Target	Target detection/Target attribute recognition		
	Target recognition	Supported		
	Person	Person detection		
Vehicle	Vehicle analysis	Vehicle color/Vehicle type/Vehicle model		
	Traffic flow statistics	Motor vehicle/Non-motorized vehicle/Pedestrian		
Other intelligences	Behavior analysis	Fast movement/Tripwire crossing/Intrusion/Area entry or exit /Loitering		
	Crowd flow analysis	Queue length/Head counting/Crowd flow statistics		
	Non-motorized vehicle	Supported		
	Multi-algorithm switchover	Supported		
	Defocus	Supported		
	Alarm information	No SD card; SD card full; SD card error; Network disconnection; Defocus detection; IP Address Conflict Detection		

Open ecosystem		
Algorithm openness	Open OS	Supported
Data openness	Data openness	SDK (proprietary protocol)/REST API (proprietary protocol)/GA/T 1400/GB/T 28181 (2011, 2016) /ONVIF Profile S/G/T

Image		
	Video encoding format	MJPEG/H.264/H.265
Codec	Video encoding channels	Triple streams
	Intelligent encoding	Extra265/264

	Video frame rate	25 or 20 fps (configurable)	
Image Al	Scene adaptation	Backlight adaptation/Overcast adaptation	
	Min illumination	Color: 0.0004 lux (F1.2, AGC ON, 1/30s shutter speed); B/W: 0.0001 lux (F1.2, AGC ON, 1/30s shutter speed) or 0 lux (IR enabled)	
	Day/Night mode	Supported; automatic (ICR), Color, B/W, and scheduled (default: automatic); sensitivity level: high (default), medium, and low; image triggering/internal triggering	
	WDR	120db	
Image ISP	White balance	Auto/Manual/OnePush	
	HLC/BLC	Supported/Supported	
	Digital noise reduction	2D/3D noise reduction	
	Shutter speed	Supports slow shutter. Slow shutter speed levels: 1/3, 1/4, 1/8, 1/12, 1/15 Non-slow shutter speed levels: 1/25, 1/30, 1/50, 1/60, 1/90, 1/100, 1/120, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000, 1/30000, 1/100000, custom Full intelligence mode: Slow shutter is not supported. Face checkpoint: 1/100; Micro checkpoint: 1/250. Face checkpoint: 1/100 Micro checkpoint: 1/250 Behavior analysis: 1/25	
	Signal-to-Noise Ratio(SNR)	>45dB	
	Primary stream resolution	3840 x 2160 (4K), 3072 x 1728 (5MP), 2560 x 1440 (4MP), 2304 x 1296 (3MP), 1920 x 1080 (1080p), 1280 x 720 (720p)	
	Secondary stream resolution	Secondary stream 1: 720×576(PAL), 720×480(NTSC); secondary stream 2: 720 x 576 (PAL), 720 x 480 (NTSC), 352 x 288 (PAL), 352 x 240 (NTSC)	
	Video bit rate	Only for H.264 and H.265: 1080P~4K 512Kbps ~ 16Mbps 720P 384Kbps ~ 8Mbps D1 256K ~ 4Mbps CIF 32K ~ 1Mbps	
	Algorithm-assisted Defogging	Supported	
	EIS	Supported. Sensitivity levels are not supported.	
Audio			
Addio	Audia Facedina 5	C 741 / C 741 / C 700 / ODLIG	
Audio		G.711a/G.711u/G.726/OPUS	
	Audio sampling rate	G.711a/G.711u/G.726: 8 kHz OPUS: 8/12/16/24/48 kHz	
		G.711a/G.711u: 64 kbit/s G.726: configurable (16/24/32/40 kbit/s) OPUS: configurable (16/24/32/40/64/96/128/160/192/224/256/288 kbit/s)	
Networking			
Network transmission	Protocols supported by IPv4	TCP, UDP, IPv4, DHCP, DNS, ICMP, IGMP, HTTPS, FTP, SFTP, RTP, RTSP, RTCP, SIP, ARP, SSL, NTP, SNMP (V1/V2/V3), 802.1x, QoS, SMTP, and PPPoE. Note: The northbound protocol needs to adapt to the PPPoE dialup scenario.	
	Protocols supported by IPv6	HTTPS,RTP,RTCP,RTSP,Onvif,IPv6,ICMPv6,DHCPv6	

Security			
Data security	Media security	Supports web- or SDK-based media stream encryption; supports a maximum of two channels of encrypted media streams; media stream encryption and full intelligence, target recognition, or image upload through SFTP/FTP cannot be enabled at the same time; after the intelligent analysis function is enabled, only one-channel stream encryption is supported; supports encrypted data storage on SD cards.	
	Video digital watermark	Supported	
	Image digital watermark	Supported	
Service security	User rights	Three user roles: administrator, advanced operator, and common operator	
	Security mode	User name and password authentication, 802.1X authentication, and HTTPS digital certificate	
	Secure boot	Supported	
	System intrusion detection	Supported	
Port			
Storage port	MicroSD card slot that supports microSDHC/microSDXC; maximum memory card capacity: 256 GB		
Alarm port	2 input port and 1output port		
Network port	One RJ45 10M/100M adaptive Ethernet port		
Communication serial port	RS-485 port		
Audio port	Supported (one-channel LINE IN or one-channel external MIC)/Supported (one-channel LINE OUT)		
Power type	DC12V,PoE(IEEE 802.3at)		
Power consumption	Maximum:11.4W,typical:3.6W		
Operating temperature	−30°C to +55°C		
Operating humidity	5% to 95%(non-condensing)		
Surge protection	4kV		
IP rating	IP67		
Faciliana ant Anti	Class C corrosion resistance		
Equipment Anti Corrosion	Class C corrosion resistance	re	
	Class C corrosion resistance		
Corrosion		g window)	

Dimensions 107.1 206.4 Recommended Accessories









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