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

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



8≣ Features

- ▶ 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				
	Memory	DDR4 1.0 GI	В			
Main control	Flash type	SPI NAND F	FLASH 512.0 N	МВ		
Main Control	Max capacity		rd slot that si rd capacity: 2		SDHC/microS	DXC; maximum
	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 ir	is+Hall senso	or)		
6	Angle of view	Horizontal:1	5°(T) to 42°(\	W); Vertical:8.4	°(T) to 22.8°(\	N)
Camera	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

	Tananat	Toward data ships (Toward attails to account his s
Target/Body	Target	Target detection/Target attribute recognition
	Target recognition	Supported
	Person	Person detection
\/abiala	Vehicle analysis	Vehicle color/Vehicle type/Vehicle model
Vehicle	Traffic flow statistics	Motor vehicle/Non-motorized vehicle/Pedestrian
	Behavior analysis	Fast movement/Tripwire crossing/Intrusion/Area entry or exit /Loitering
	Crowd flow analysis	Queue length/Head counting/Crowd flow statistics
Other intelligences	Non-motorized vehicle	Supported
o the intelligences	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
	Video encoding channels	Triple streams
Codec	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; imag 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, 1/20 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 1 (3MP), 1920 x 1080 (1080p), 1280 x 720 (720p)
	Secondary stream resolution	Secondary stream 1: 1920 x 1080 (1080p), 1280 x 720 (720p), 720 x 576 (PAL), 720 x 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~4K512Kbps ~ 16Mbps 720P 384Kbps ~ 8Mbps D1 256K ~ 4Mbps CIF 32K ~ 1Mbps
	Smart Illumination	Not Supported
	Optical Defogging/Algorithm- assisted Defogging	Not Supported/Supported
	EIS	Supported. Sensitivity levels are not supported.

Audio		
	Audio Encoding Format	G.711a/G.711u/G.726/OPUS
Audio	Audio sampling rate	G.711a/G.711u/G.726: 8 kHz OPUS: 8/12/16/24/48 kHz
	Audio bit rate	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	
	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	
Service security	Secure boot	Supported	
	System intrusion detection	Supported	
Port	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 (illuminator disabled) -30°C to +40°C (illuminator enabled)		
Operating humidity	5% to 95%(non-condensing)		
Surge protection	4kV		
IP rating	IP67		
Equipment Anti Corrosion	Class C corrosion resistance		

Device dimensions 206mm×108mm×89mm;Package dimensions 117mm×141mm×296mm

Net weight 1005g; Gross weight 1196g

Weight

Dimensions

Dimensions 107.1 206.4 Recommended Accessories









HOLOWITS Contact

Address: 6 Temasek Boulevard, 29th Floor, Suntec Tower Four, Singapore

038986

Web: www.holowits.com

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