

HWT-M2121-10-EI (8-32mm)

1T 2MP Multi-Algorithm Bullet Camera



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, overcast adaptation, and speed 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

Technical Specifications

Model		HWT-M2121-10-EI(8-32mm)				
Major Specifications						
Main control	Computing power	1TOPS				
	Memory	DDR3 0.5 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) to F1.65 (T)				
	Image sensor	1/1.8" CMOS/2MP 1920(H)*1080(V)				
	Lens aperture type	DC-Iris				
	Angle of view	Horizontal: 13.44° (T) to 42.3° (W); vertical: 7.7° (T) to 23.34° (W)				
	IR range	100m				
	Digital zoom/Optical zoom	16X/4X				
	DORI (Complied to the EN 62676-4)		D(m)	O(m)	R(m)	I(m)
		W	85.3	34.4	17.1	8.5
T		341.3	137.6	68.3	34.1	
Intelligence						
Target/Body	Target	Target detection/Target attribute recognition				
	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						
Codec	Video encoding format	MJPEG/H.264/H.265				
	Video encoding channels	Triple streams				
	Intelligent encoding	Extra265/264				
	Video frame rate	Configurable (60 fps, 50 fps, 30 fps, or 25 fps); default value: 25 fps				
Image AI	Scene adaptation	Backlight adaptation/Overcast adaptation/Speed adaptation				

Image ISP

Min illumination	Color: 0.001 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 (infrared illuminator enabled)
Day/Night mode	Supported; automatic (ICR)/Color/B/W (default: automatic) Sensitivity level: high (default), medium, and low Image triggering /Internal triggering
WDR	120dB
White balance	Auto/Manual/OnePush
HLC/BLC	Supported/Supported
Digital noise reduction	2D/3D noise reduction
Shutter speed	Full intelligence mode: Face checkpoint: 1/25s to 1/68250s (default value: 1/100) Micro checkpoint: 1/100s to 1/68250s (default value: 1/250) Other modes: 1/3s to 1/68250s The default value is 1/25.
Signal-to-Noise Ratio(SNR)	>45dB
Primary stream resolution	1920×1080(1080P),1280×720(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-4K 512Kbps - 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	Audio Encoding Format	G.711a/G.711u/G.726/OPUS
	Audio sampling rate	G.711a/G.711u/G.726:8K OPUS:8K/12K/16K/24K/48K
	Audio bit rate	G.711a/G.711u:64kbps G.726:16 kbit/s, 24 kbit/s, 32 kbit/s, or 40 kbit/s 16/24/32/40/64/96/128/160/192/224/256/288Kbps: configurable

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,PPPOE
	Protocols supported by IPv6	HTTPS,RTP,RTCP,RTSP,Onvif,IPv6,ICMPv6,DHCPv6

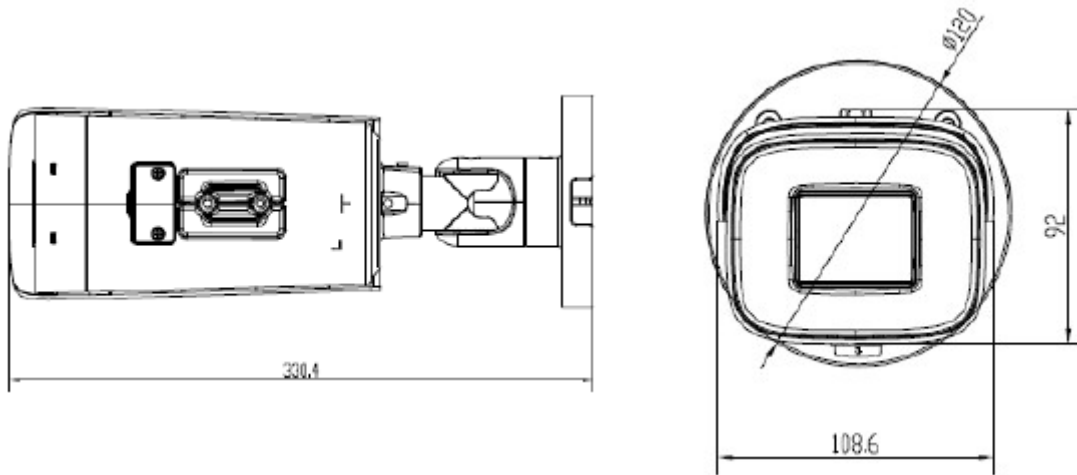
Security

Data security	Media security	AES256-based SDK stream encryption; encrypted storage of video and images on SD cards
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 ports and 1 output 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)

General Specifications	
Power type	12 V DC and PoE (IEEE 802.3af)
Power consumption	Maximum: 16 W; typical: 5 W
Operating temperature	-30°C to +60°C (illuminator disabled) -30°C to +40°C (illuminator enabled)
Operating humidity	5% to 95% (non-condensing)
Surge protection	4 kV
IP rating	IP67
Equipment Anti Corrosion	Class C corrosion resistance
IK rating	IK10
Weight	Net weight 1.7 kg;Gross weight 2.2 kg
Dimensions	Device dimensions 120 mm x 330 mm x 120 mm;Package dimensions 182 mm x 376 mm x 139 mm

Dimensions



Recommended Accessories



ACC3213



ACC3231

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