

HWT-M2120-10-EI (7-35mm)

1T 2MP IRAI 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
- ▶ 1/2.7" 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-M2120-10-EI(7-35mm)			
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	7-35mm			
	Max Aperture	F1.4 (W) to F1.8 (T)			
	Image sensor	1/2.7" CMOS/2MP 1920(H)*1080(V)			
	Lens aperture type	DC-Iris			
	Angle of view	Horizontal: 10° (T) to 33.5° (W); vertical: 5.7° (T) to 18.9° (W)			
	IR range	100m			
	Digital zoom/Optical zoom	16X/5X			
	DORI (Complied to the EN 62676-4)		D(m)	O(m)	R(m)
	W	96.6	38.9	19.3	9.7
	T	482.8	194.7	96.6	48.3
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: 0.005 lux (F1.2, AGC ON, 1/30s shutter speed); B/W: 0.0025 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. Note: The full intelligence mode does not support slow shutter.
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

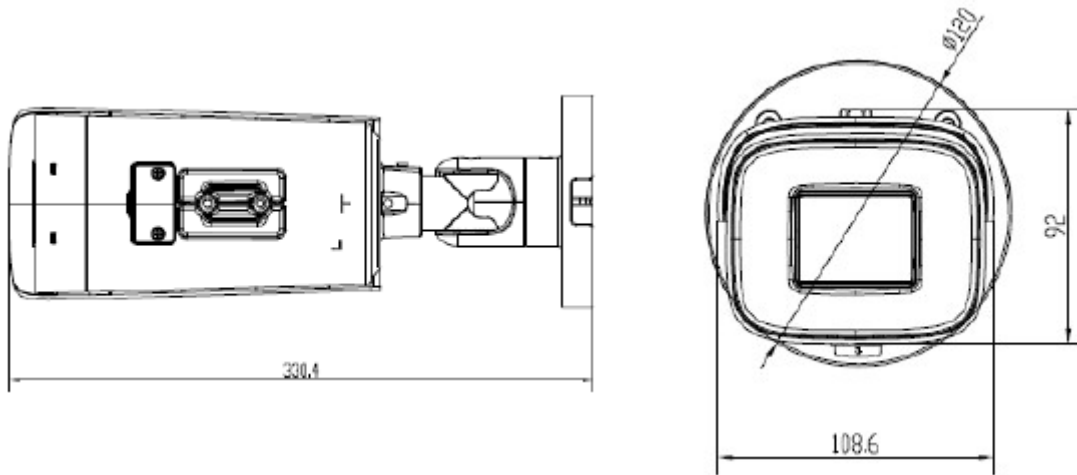
Security

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	12V 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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