HWT-D2020-10-I-P(3.6mm)

1T 2MP AI IR Bullet Camera

Features

- 1TOPS computing power
- Supports behavior analysis, crowd flow analysis, target detection, and person detection
- 1/2.7" CMOS sensor
- 120 dB super wide dynamic range (WDR), ensuring that both foreground and background objects are clearly identified in environments with sharp light contrast

Technical Specifications

Model	HWT-D2020-10-I-P(3.6mm)				
Major Specifications					
Main control	Computing power	1TOPS			
	Memory	DDR3 0.25 GB			
	Flash type	SPI NAND FLASH 256.0 MB			
	Max capacity	MicroSD card slot that supports microSDHC/microSDXC; maximum memory card capacity: 256 GB			
Camera	Focal length	3.6mm			
	Max Aperture	F1.6			
	Image sensor	1/2.7" CMOS/2MP 1920(H)*1080(V)			
	Lens aperture type	Fixed iris			
	Angle of view	Horizontal:91.09°Vertical:48.18°			
	IR range	50m			
	Digital Zoom	Not Supported			
	DORI (Complied to the EN 62676-4)		D(m)	O(m)	R(m)	I(m)
		W	48.0	19.4	9.6	4.8

Intelligence			
Target/Body	Target	Target detection	
	Person	Person detection	
Other intelligences	Behavior analysis	Fast movement/Tripwire crossing/Intrusion/Area entry or exit /Loitering	
	Crowd flow analysis	Queue length/Head counting/Crowd flow statistics	
	Defocus	Supported	
	Alarm information	No SD card; SD card full; SD card error; Network disconnection; Defocus detection; IP Address Conflict Detection	

Open ecosystem		
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 (25 fps or 30 fps)
Image ISP	Min illumination	Color: 0.005 lux (F1.2, AGC ON, 1/30s shutter speed); B/W: 0.0005 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

Image ISP	HLC/BLC	Supported/Supported
	Digital noise reduction	2D/3D noise reduction
	Shutter speed	1/3s to 1/68250s: The level drop-down list box is added, and the time can be manually set. Slow shutter level: 1/3, 1/4, 1/8, 1/12, 1/15; Non-slow shutter level: 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; ; Default value: 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), 352×240(NTSC)
	Video bit rate	Only for H.264 and H.265 1080P 512Kbps -8Mbps 720P 384Kbps -4Mbps D1 256K - 4Mbps CIF 32K - 1Mbps
	Smart Illumination	Not Supported
	Optical Defogging/Algorithm-assisted Defogging	Not Supported/Supported
	EIS	Not supported; Sensitivity levels are not supported.

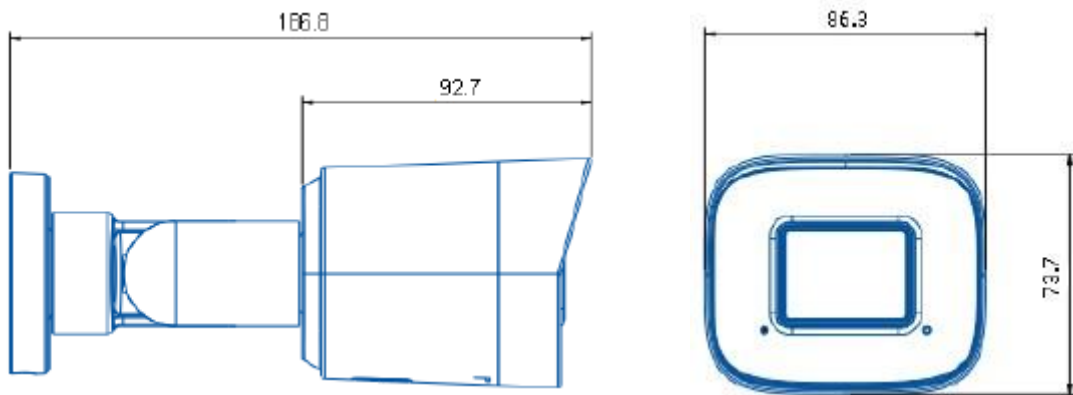| **Audio**		
Audio	Audio Encoding Format	G.711a/G.711u/G.726/OPUS
	Audio sampling rate	G.711a/G.711u/G.726:8K OPUS:8K/12K/16K/24K/48K
	Audio bit rate	G.711a/G.711u:64kbps G.726:16 kbit/s, 24 kbit/s, 32 kbit/s, or 40 kbit/s 16/24/32/40/64/96/128/160/192/224/256/288Kbps: configurable

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, 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	AES256-based SDK stream encryption
	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

Port	
Storage port	MicroSD card slot that supports microSDHC/microSDXC; maximum memory card capacity: 256 GB
Network port	One RJ45 10M/100M adaptive Ethernet port
Audio port	Supported (one-channel built-in MIC)

General Specifications	
Power type	DC12V,PoE(IEEE 802.3af)
Power consumption	Maximum:8.2W,typical:2.9W
Operating temperature	-30°C to 60°C
Operating humidity	5% to 95%(non-condensing)
Surge protection	4kV
IP rating	IP67
Equipment Anti Corrosion	Class C corrosion resistance
IK rating	IK10
Weight	Net weight 0.6kg;Gross weight 0.75kg
Dimensions	Device dimensions 187mm×86.5mm×74mm;Package dimensions 191mm×112mm×120mm

⬡ Dimensions

166.8
92.7
86.3
73.7

✿ Recommended Accessories

ACC3233

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