

HWT-D3020-10-I -P(2.8mm)

1T2MP IR AI Fixed Dome Camera

Indoor Application



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-D3020-10-I-P(2.8mm)

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	2.8mm			
	Max Aperture	F1.6			
	Image sensor	1/2.7" CMOS/2MP 1920(H)*1080(V)			
	Lens aperture type	Fixed iris			
	Angle of view	Horizontal: 111.4°; vertical: 58.9°			
	IR range	30m			
	Digital Zoom	Not Supported			
	DORI (Complied to the EN 62676-4)		D(m)	O(m)	R(m)
	W	37.3	15.1	7.5	3.7

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
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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: 0.002 lux (F1.6, AGC ON); B/W: 0.001 lux (F1.6, AGC ON) 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	120 dB
	White balance	Auto/Manual/OnePush
	HLC/BLC	Supported/Supported
	Digital noise reduction	2D/3D noise reduction

Image ISP	Shutter speed	1/3s to 1/68250s: 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 x 240 (NTSC)
	Video bit rate	Only for H.264 and H.265 1080P-4K 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

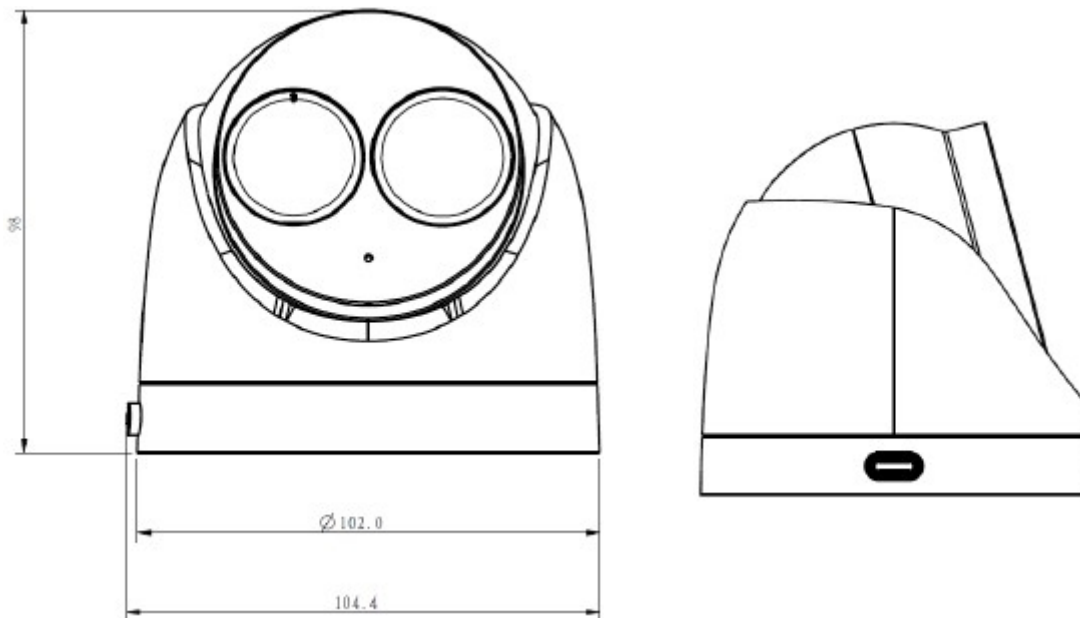
Data security	Media security	Supports web- or SDK-based media stream encryption; supports a maximum of two channels of encrypted media streams; supports encrypted data storage on SD cards
Service security	User rights	Three user roles: administrator, advanced operator, and common operator
	Security mode	User name and password authentication, 802.1X authentication, and HTTPS digital certificate
	Secure boot	Supported

Port

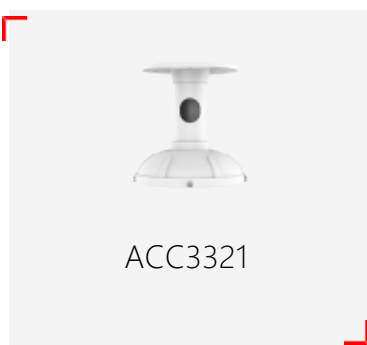
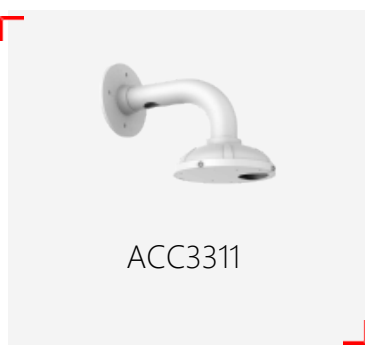
Storage port	MicroSD card slot that supports microSDHC/microSDXC; maximum memory card capacity: 256 GB
Network port	One RJ45 10M/100M adaptive Ethernet port
Audio port	Supported (one-channel built-in MIC)

General Specifications	
Power type	12 V DC and PoE (IEEE 802.3af)
Power consumption	Maximum: 5.8 W; typical: 3.3 W
Operating temperature	-30°C to +60°C
Operating humidity	5% to 95% (non-condensing)
Surge protection	2 kV
IP rating	IP67
Equipment Anti Corrosion	Class C corrosion resistance
Weight	Net weight 0.38 kg;Gross weight 0.5 kg
Dimensions	Device dimensions $\varnothing 104$ mm x 98 mm;Package dimensions 115 mm x 125 mm x 113 mm

Dimensions



Recommended Accessories



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