

HWT-D2150-10-LI-SV

1T5MP IR/White-Light AI Bullet Camera
with Intercom



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
- ▶ 1/2.7" 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 intelligent infrared/white-light compensation
- ▶ Built-in dual microphones and speaker for voice intercom
- ▶ Supports voice intercom, alarm-triggered announcement playing, and customized audio files
- ▶ Audible and visual alarm

Technical Specifications

Model		HWT-D2150-10-LI-SV				
Major Specifications						
Main control	Computing power	1TOPS				
	Memory	DDR3 1.0 GB				
	Flash type	EMMC 8192.0 MB				
Camera	Focal length	2.8-12mm				
	Max Aperture	F1.2				
	Image sensor	1/2.7" CMOS/5MP 2560(H)*1920(V)				
	Angle of view	31°(T) to 95°(W);Vertical:23°(T) to 67°(W)				
	IR range	50m				
	Illumination distance	30m				
	Digital Zoom/Optical Zoom	16X/4X				
	DORI (Complied to the EN 62676-4)		D(m)	O(m)	R(m)	I(m)
		W	56.0	22.6	11.2	5.6
		T	240.0	96.8	48.0	24.0
Intelligence						
Target/Body	Target	Target detection/Target enhancement/Target attribute recognition				
	Target recognition	Supported				
	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/Battery Vehicle Detection				
	Crowd flow analysis	Queue length/Head counting/Crowd flow statistics				
	Non-motorized vehicle	Supported				
	Multi-algorithm switchover	Supported				
	Defocus	Supported				
	Basic Event	Motion detection/Abandoned object detection/Removed object detection				
	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	5-megapixel: 20fps/25fps; < 5-megapixel: 30 fps or 25 fps				
Image AI	Scene adaptation	Backlight adaptation/Overcast adaptation				
		Color: 0.002 lux (F1.2, AGC ON, 1/30s shutter speed); B/W: 0.0005 lux				

Image ISP

Min illumination	(F1.2, AGC ON, 1/30s shutter speed) or 0 lux (infrared illuminator enabled)
Day/Night mode	Supported; automatic (ICR), color, B/W, and scheduled (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	Supports slow shutter; Slow shutter speed levels: 1/3s, 1/4s, 1/8s, 1/12s, 1/15s; Non-slow shutter speed levels: 1/25s, 1/30s, 1/50s, 1/60s, 1/90s, 1/100s, 1/120s, 1/125s, 1/180s, 1/250s, 1/350s, 1/500s, 1/725s, 1/1000s, 1/1500s, 1/2000s, 1/3000s, 1/4000s, 1/6000s, 1/10000s, 1/30000s, 1/100000s, and customized; (default: 1/25s)
Signal-to-Noise Ratio(SNR)	> 45 dB
Primary stream resolution	2560×1920(5MP),2560×1440(4MP),2048×1536(3MP),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), 352 x 288 (PAL), 352 x 240 (NTSC) Secondary stream 2: 352 x 288 (PAL), 352 x 240 (NTSC)
Video bit rate	Only for H.264 and H.265: 1080p to 4K: 512 kbit/s to 16 Mbit/s 720p: 384 kbit/s to 8 Mbit/s D1: 256 kbit/s to 4 Mbit/s CIF: 32 kbit/s to 1 Mbit/s
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/AAC
Audio	Audio sampling rate	G.711a/G.711u/G.726: 8 kHz OPUS: 8/12/16/24/48 kHz
Audio	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

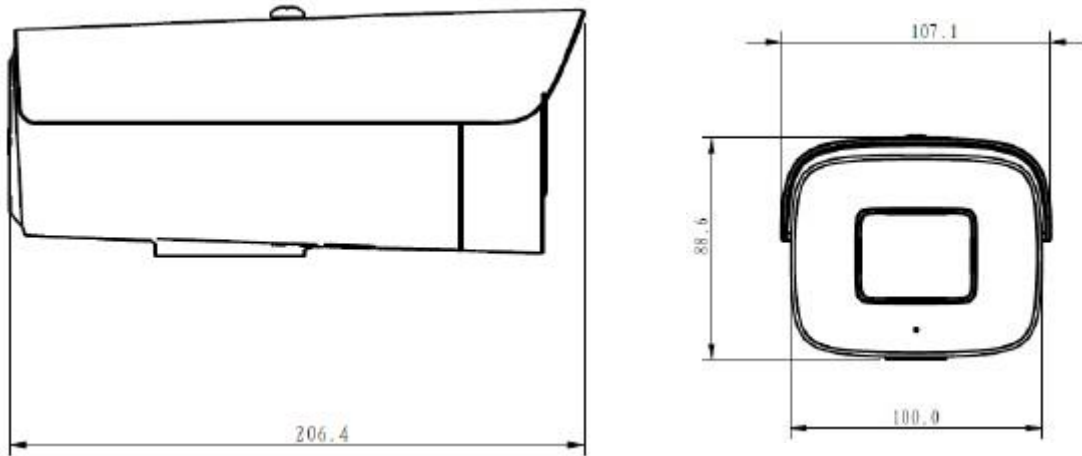
Protocols supported by IPv4	TCP, UDP, IPv4, DHCP, DNS, ICMP, IGMP, HTTPS, FTP, SFTP, RTP, RTSP, RTCP, SIP, ARP, SSL, NTP, SNMP (V1/V2/V3), 802.1X, QoS, SMTP, and PPPoE Note: 1.The northbound protocol should adapt to the PPPoE dialup scenario.
Protocols supported by IPv6	HTTP,HTTPS,RTP,RTCP,RTSP,Onvif,IPv6,ICMPv6,DHCPv6

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
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	Provides one microSD card slot that supports microSDHC/microSDXC (maximum memory card capacity: 256 GB).
Alarm port	2 input port and 1 output port
Network port	One RJ45 10M/100M adaptive Ethernet port
Communication serial port	RS-485 port
Audio port	Supported (2-channel built-in MIC)/Supported (one-channel LINE OUT or one-channel speaker)

General Specifications	
Power type	DC12V,PoE(IEEE 802.3at)
Power consumption	Maximum:12.8W,typical:3.2W
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 (except for the viewing window)
Weight	Net weight 1.0kg;Gross weight 1.2KG
Dimensions	Device dimensions 88mm×107mm×206mm;Package dimensions 115mm×140mm×294mm

Dimensions



Recommended Accessories



ACC3217



ACC3285



ACC3233

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