# HOLOWITS

# HWT-D2150-10-SIU

## 1T 5MP AI IR Bullet Camera

## ⊟ Features

▶ 1TOPS computing power

▶ Supports multi-algorithm switchover, behavior analysis, crowd flow analysis, target and 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 switchover among multiple algorithms

# ⚙ Technical Specifications

| Model | HWT-D2150-10-SIU | | | | |
|---|---|---|---|---|---|
| **Major Specifications** | | | | | |
| Main control | Computing power | 1TOPS | | | |
| | Memory | DDR4 1.0 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 | 2.8-12mm | | | |
| | Max Aperture | F1.6(W)-F3.2(T) | | | |
| | Image sensor | 1/2.7" CMOS/5MP 2560(H)*1920(V) | | | |
| | Lens aperture type | Fixed iris | | | |
| | Angle of view | W ≥:Horizontal95°; T ≤:Horizontal33°. | | | |
| | IR range | 50m | | | |
| | 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 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 |
| | 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: 20 fps; < 5-megapixel: 30 fps or 25 fps |

| Image ISP | Scene adaptation | Backlight adaptation/Overcast adaptation |
|---|---|---|
| Image AI | | |
| | Min illumination | Color: 0.005 lux (F1.6, AGC ON); B/W: 0.0025 lux (F1.6, AGC ON) 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 | The 1/3s to 1/68250s drop-down list box is added. The time can be manually set to 1/3, 1/4, 1/8, 1/12, or 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; The default value is 1/100 for face checkpoint mode, 1/250 for micro checkpoint mode, and 1/25 for behavior analysis. |
| | Signal-to-Noise Ratio(SNR) | >45dB |
| | Primary stream resolution | 2560×1920(5MP),2560×1440(4MP),2048×1536(3MP),1920×1080(1080P),1280×720(720P) |
| | Secondary stream resolution | Secondary stream 1:720 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-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. |

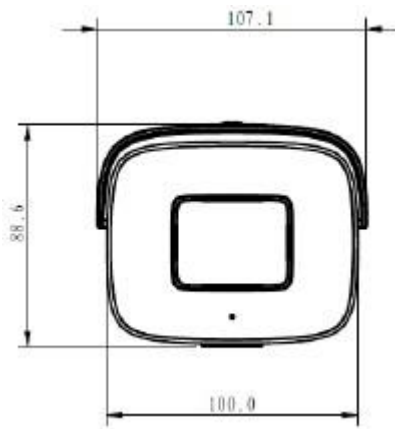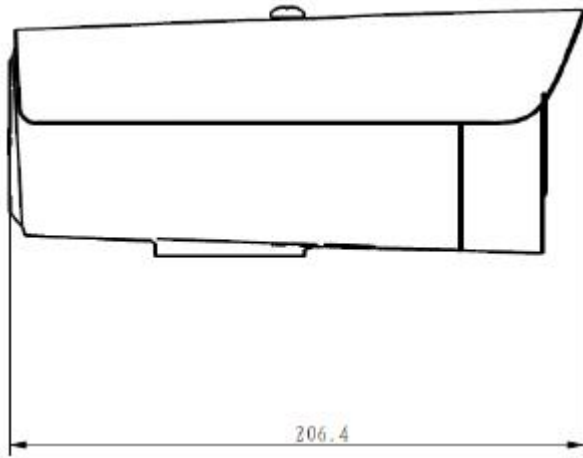| Audio | | |
|---|---|---|
| **Audio** | Audio Encoding Format | G.711a/G.711u/G.726/OPUS |
| | Audio sampling rate | G.711a/G.711u/G.726:8K OPUS:8K/12K/16K/24K/48K |
| | Audio bit rate | G.711a/G.711u:64kbps G.726:16 kbit/s, 24 kbit/s, 32 kbit/s, or 40 kbit/s 16/24/32/40/64/96/128/160/192/224/256/288Kbps: 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, 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; 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 | MicroSD card slot that supports microSDHC/microSDXC; maximum memory card capacity: 256 GB |
| Alarm port | 2 input port and 1output 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 | DC12V,PoE(IEEE 802.3af) |
| Power consumption | Maximum:12.2W,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 |
| Weight | Net weight 1.0kg;Gross weight 1.2kg |
| Dimensions | Device dimensions 88mm×107mm×206mm;Package dimensions 115mm×140mm×297mm |

## Dimensions



107.1

88.6

206.4

100.0

## Recommended Accessories



ACC3217

ACC3285

ACC3233

# Product selector

Scan the QR code on the right to view and
compare specifications of HOLOWITS
products and select the best camera for you.