HOLOWITS

HWT-M1281-10-Q-FA

2T 8MP AI Box Camera



8≣ Features

- ▶ 2 TOPS computing power
- Supports omni-data structuring, 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

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- ▶ 1/1.8" 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
- Supports omni-data structuring



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Technical Specifications

| Model | HWT-M1281-10-Q-F | HWT-M1281-10-Q-FA | |
|----------------------|--------------------|---|--|
| Major Specifications | | | |
| Main control | Computing power | 2 TOPS | |
| | Memory | DDR4 2.0 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 | Image sensor | 1/1.8" CMOS/8MP 3840(H)*2160(V) | |
| | Focal length | 3.8-16/11-50mm | |
| | Lens aperture type | DC iris (drive impedance \geq 190 ohms; braking impedance \geq 500 ohms) | |
| Intelligence | | | |
| | Target | Target detection/Target enhancement/Target attribute recognition | |
| Target/Body | Target recognition | Supported | |
| | Person | Person detection/Personal attribute recognition | |
| | Vehicle analysis | Vehicle color/Vehicle type/Vehicle model | |

| Vehicle | venicle analysis | venicle color/venicle type/venicle model |
|---------------------|-------------------------------|---|
| venicie | Traffic flow statistics | Motor vehicle/Non-motorized vehicle/Pedestrian |
| | Omni-Data Structuring | Supported |
| | Behavior analysis | Fast movement/Tripwire crossing/Intrusion/Area entry or exit /Loitering |
| | Crowd flow analysis | Queue length/Head counting/Crowd flow statistics |
| Other intelligences | 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 | | | |
| | Video encoding format | MJPEG/H.264/H.265 | |
| Codec | Video encoding channels | Triple streams | |
| | Intelligent encoding | Extra265/264 | |
| | Video frame rate | Configurable (25 fps or 30 fps) | |
| Image Al | Scene adaptation | Backlight adaptation/Overcast adaptation/Speed adaptation | |
| | Min illumination | Color: 0.015 lux (F1.2, AGC ON, 1/30s shutter speed); B/W: 0.0075 lux (F1.2, AGC ON, 1/30s shutter speed) | |
| | | Supported; automatic (ICR)/Color/B/W (default: color); Sensitivity | |

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| Day/Night mode | 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 |
| Shutter speed | 1/3s to 1/68250s drop-down list box: 1/3, 1/4, 1/8, 1/12, and 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. The default value for micro checkpoint mode is 1/250, the default value for full intelligence mode is 1/250, and the default value for behavior analysis is 1/25. |
| Signal-to-Noise Ratio(SNR) | >45dB |
| Primary stream resolution | 3840×2160(4K),3072×1728(5MP),2560×1440(4MP),2304×1296(3MP),192 0×1080(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 | Supported/Supported |
| Signal-to-Noise Ratio(SNR) | |
| 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; supports encrypted data storage on SD cards |
| | | Video digital watermark | Supported |
| | | Image digital watermark | Supported |
| | | User rights | Three user roles: administrator, advanced operator, and common operator |
| | Service security | 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 | 1input port and 1output port |
| Network port | One RJ45 10M/1000M adaptive Ethernet port |
| Communication serial port | RS-485 port |
| Optical port | One SFP slot |
| Audio port | Supported (one-channel LINE IN or one-channel external MIC)/Supported (one-channel LINE OUT) |

| General Specifications | | |
|------------------------|---|--|
| Power type | 12 V DC, 24 AC, and PoE (IEEE 802.3af) | |
| Power consumption | Maximum: 8.2 W; typical: 7.3 W | |
| Operating temperature | -30°C to +60°C | |
| Operating humidity | 5% to 95% (non-condensing) | |
| Surge protection | 4 kV | |
| Weight | Net weight 589 g;Gross weight 778 g | |
| Dimensions | Device dimensions 153 mm x 78 mm x 62 mm (excluding the lens);Package dimensions 108 mm x 230 mm x 125 mm | |

| © Dimensions | • | HOLOWITS |
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| Recommended Accessor | ies | o |
| and the | | |
| ACC3280 | ACC3211 | ACC3282 |
| | 8 A A | |
| ACC3217 | ACC3231 | |

HOLOWITS

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