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
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	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
Recommended Accessor	ies	o
and the		
ACC3280	ACC3211	ACC3282
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ACC3217	ACC3231	

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