

## HWT-M6781-10-GZ40

2T 8MP AI PTZ Dome Camera



### ☰ Features

- ▶ 2 TOPS computing power
- ▶ Supports omni-data structuring, automatic tracking, behavior analysis, crowd flow analysis, target detection, person detection, object classification (motor vehicle, non-motorized vehicle, and pedestrian), vehicle detection, vehicle event detection, and traffic flow statistics
- ▶ Supports backlight adaptation and overcast adaptation
- ▶ 1/1.8" CMOS sensor
- ▶ Online loading and upgrade of algorithms
- ▶ 120dB super wide dynamic range (WDR), ensuring that both foreground and background objects are clearly identified in environments with sharp light contrast
- ▶ Built-in GPS, BDS, and time calibration modules
- ▶ Built-in electronic compass and accelerometer, reflecting the PTZ direction and tilt range in real time
- ▶ Supports omni-data structuring

## Technical Specifications

Model		HWT-M6781-10-GZ40				
Major Specifications						
Main control	Computing power	2 TOPS				
	Memory	DDR4 2.0 GB				
	Flash type	SPI NAND FLASH 5120 MB				
	Max capacity	MicroSD card slot that supports microSDHC/microSDXC; maximum memory card capacity: 256 GB				
Camera	Focal length	6-240mm				
	Max Aperture	F1.35(W)-F4.6(T)				
	Image sensor	1/1.8" CMOS/8MP 3840(H)*2160(V)				
	Lens aperture type	Precise iris (P-iris)				
	Angle of view	Horizontal:2°(T) to 60.9°(W);Vertical:1.2°(T) to 35.3°(W)				
	IR range	250m				
	Digital zoom/Optical zoom	16X/40X				
	DORI (Complied to the EN 62676-4)		D(m)	O(m)	R(m)	l(m)
W	120.0	48.4	24.0	12.0		
T	4800.0	1935.5	960.0	480.0		
PTZ	PTZ rotation angle	Pan: 0° ~ 360° Vertical-20° ~ 90°				
	Pan speed	Manual: :0.1° to 160°/S Speed for moving to the preset position:240° /S				
	Tilt speed	Manual: :0.1 to 120°/s Speed for moving to the preset position:200°/s				
	Park action	Supported				
	Tour	Supported				
	Preset position	256 (including one home position)				
	Home position	One home position				
Intelligence						
Target/Body	Target	Target detection/Target enhancement/Target attribute recognition				
	Target recognition	Supported				
	Person	Person detection/Personal attribute recognition				
Vehicle	Vehicle analysis	Vehicle color/Vehicle type/Vehicle model				
	Traffic flow statistics	Motor vehicle/Non-motorized vehicle/Pedestrian				
Other intelligences	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				
	Non-motorized vehicle	Supported				
	Vehicle event detection	Parking violation				
	Intelligent tracking	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	Configurable (25 fps or 30 fps)
Image AI	Scene adaptation	Backlight adaptation/Overcast adaptation
Image ISP	Min illumination	Color: 0.001 lux (F1.2, AGC ON, 1/30s shutter speed); B/W: 0.0001 lux (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/Auto tracking/Manual/OnePush
	HLC/BLC	Supported/Supported
	Digital noise reduction	2D/3D noise reduction
	Shutter speed	Supports slow shutter. Slow shutter speed levels: 1/3, 1/4, 1/8, 1/12, 1/15 Non-slow shutter speed levels: 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, custom Non-slow shutter speed levels in full intelligence or face checkpoint mode: 1/25, 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, custom Non-slow shutter speed levels in full intelligence or micro checkpoint mode: 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, custom  Full intelligence: Slow shutter is not supported. Face checkpoint: 1/100. Micro checkpoint: 1/100 Face checkpoint: 1/100 Micro checkpoint: 1/250 Behavior analysis: 1/25
	Signal-to-Noise Ratio(SNR)	>45dB
	Primary stream resolution	3840×2160(4K),3072×1728(5MP),2560×1440(4MP),2304×1296(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) 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	
EIS	Supported. Sensitivity levels are supported.	

Audio		
Audio	Audio Encoding Format	G.711a/G.711u/G.726/OPUS
	Audio sampling rate	G.711a/G.711u/G.726: 8 kHz OPUS: 8/12/16/24/48 kHz
	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)

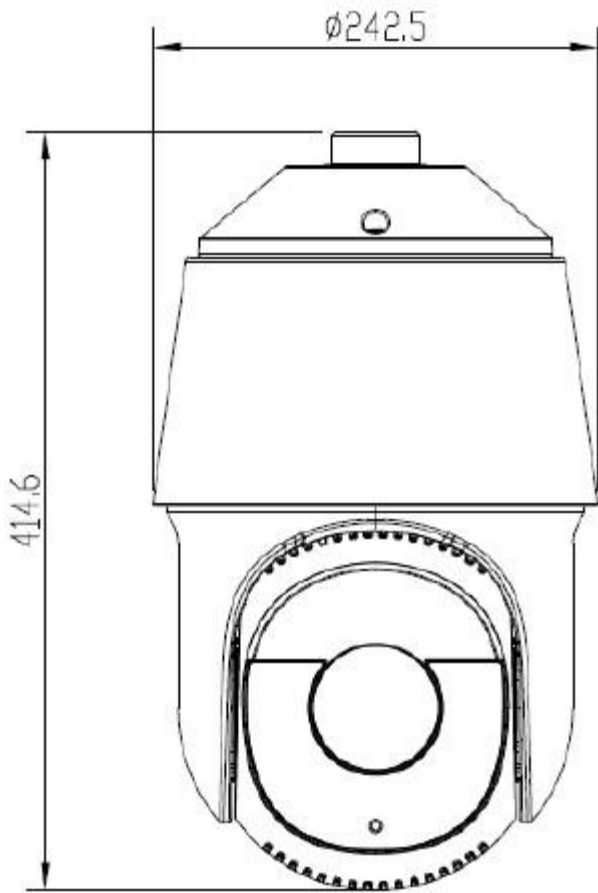
Networking		
Network transmission	Protocols supported by IPv4	TCP, UDP, IPv4, DHCP, DNS, ICMP, IGMP, HTTPS, FTP, SFTP, RTP, RTSP, RTCP, SIP, ARP, SSL, NTP, SNMP (V1/V2/V3), 802.1x, QoS, SMTP, and PPPoE. Note: The northbound protocol needs to adapt to the PPPoE dialup scenario.
	Protocols supported by 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
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	4 input port and 2 output 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	AC24V, POE (IEEE 802.3 BT)
Power consumption	Maximum: 51.8W, typical: 14W
Operating temperature	-40°C to +60°C (illuminator disabled); -40°C to +40°C (illuminator enabled)
Operating humidity	5% to 95% (non-condensing)
Surge protection	6kV
IP rating	IP66
Equipment Anti Corrosion	Class C corrosion resistance
IK rating	IK10
Weight	Net weight 7.8kg; Gross weight 9.6kg
Dimensions	Device dimensions $\varnothing$ 242.5mm $\times$ 414.6mm; Package dimensions 590mm $\times$ 325mm $\times$ 355mm

## Dimensions



## Recommended Accessories



ACC3651



ACC3631



ACC3621



ACC3611

## HOLOWITS Contact

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