

HWT-X6741-20- GZ40-E2-Wp

4MP Super-Low Light Full-Color Dual-
Lens AI PTZ Dome Camera



Features

- ▶ 4 TOPS computing power
- ▶ Supports behavior analysis
- ▶ Supports backlight adaptation and overcast adaptation
- ▶ 1/1.8" CMOS sensor
- ▶ Super wide dynamic range (WDR), ensuring that both foreground and background objects are clearly identified in environments with sharp light contrast
- ▶ Dual 4MP lenses for both panoramic view and detail capture
- ▶ Ultra-sensitivity imaging technology and full-color images in low light conditions, delivering ultimate image experience
- ▶ Double-layer anti-reflection (AR) coating, enhancing light transmission performance
- ▶ AI ISP-based video stream noise reduction technology, enhancing video image quality
- ▶ Contactless air blower design
- ▶ GPS/BDS-based real-time positioning

Technical Specifications

Model		HWT-X6741-20-GZ40-E2-Wp				
Major Specifications						
Main control	Computing power	4 TOPS				
	Memory	LPDDR4X 4.0 GB				
	Flash type	eMMC 8192.0 MB				
Camera	Focal length	Minimum focal length: 5 mm; maximum focal length: 208 mm				
	Max Aperture	Prime lens: F1.0 Zoom lens: F1.8 (W) to F3.8 (T)				
	Image sensor	1/1.8" CMOS/Prime lens: 2560 x 1440 pixels Zoom lens: 2560 x 1440 pixels				
	Lens aperture type	Prime lens: fixed iris; zoom lens: P-iris				
	Angle of view	AoV of the prime lens: 90° (horizontal); 48° (vertical) Horizontal AoV of the zoom lens: horizontal: 20.7° (W); 2.31° (T) AoV deviation: ≤ 5%				
	IR range	200 m				
	Illumination distance	30 m				
	Digital zoom/Optical zoom	16X/40X				
	DORI (Complied to the EN 62676-4)		D(m)	O(m)	R(m)	I(m)
		W(5mm0	69.0	27.8	13.8	6.9
		W	280.0	112.9	56.0	28.0
T		2773.3	1118.3	554.7	277.3	
PTZ	PTZ rotation angle	Pan: 0° to 360° Tilt: -10° to +90°				
	Pan speed	Manual: 0.1-160°/s Maximum speed for rotating to a preset position: 240°/s				
	Tilt speed	Manual control speed: 0.1-120°/s Maximum speed for rotating to a preset position: 200°/s				
	Park action	Supported				
	Tour	Supported				
	Preset position	512 (including one home position)				
	Home position	One home position				
Intelligence						
Other intelligences	Behavior analysis	Fast movement/Tripwire crossing/Intrusion/Area entry or exit /Loitering				
	Defocus	Supported				
	Alarm information	No SD card; SD card full; SD card error; Network disconnection; Defocus detection; IP Address Conflict Detection				
Open ecosystem						
Data openness	Data openness	SDK (proprietary protocol)/REST API (proprietary protocol)/GA/T 1400/GB/T 28181 (2011, 2016)				
Image						
Codec	Video encoding format	MJPEG/H.264/H.265				
	Video encoding channels	Dual streams				
	Intelligent encoding	Extra265/264				
	Video frame rate	Zoom lens: configurable (30 fps or 25 fps); Wide-angle prime lens: configurable (30 fps or 25 fps)				
Image AI	Scene adaptation	Backlight adaptation/Overcast adaptation				

Image ISP

Min illumination	Color: 0.0003 lux (F1.2, AGC ON, 1/30 shutter speed); B/W: 0.0001 lux (F1.2, AGC ON, 1/30 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	Digital WDR
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; Full intelligence or target checkpoint mode: 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; Full intelligence or micro checkpoint mode: 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; Full intelligence mode: Slow shutter is not supported; target checkpoint: 1/100s; micro checkpoint: 1/100s; Target checkpoint: 1/100s; Micro checkpoint: 1/25s; Behavior analysis: 1/25s
Signal-to-Noise Ratio(SNR)	>45dB
Primary stream resolution	Zoom lens: 2560 x 1440 (4MP), 2304 x 1296 (3MP), 1920 x 1080 (1080p), 1280 x 720 (720p); Wide-angle prime lens: 2560 x 1440 (4MP), 2304 x 1296 (3MP), 1920 x 1080 (1080p), 1280 x 720 (720p)
Secondary stream resolution	Zoom lens: Secondary stream 1: 720 x 576 (PAL), 720 x 480 (NTSC), 352 x 288 (PAL), 352 x 240 (NTSC) Wide-angle prime lens: Secondary stream 1: 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 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	Supported/Supported
EIS	Supported; Supports sensitivity levels.

Audio

Audio Encoding Format	G.711a/G.711u/G.726/OPUS/AAC
Audio sampling rate	G.711a/G.711u/G.726: 8 kHz OPUS: 8/12/16/24/48 kHz AAC: 8/16/22.05/24K/32/44.1K/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) AAC: 8 kHz sampling rate: 16/22/24/32/48 kbit/s 16 kHz sampling rate: 24/32/48/64/96 kbit/s 22.05/24/32 kHz sampling rate: 32/48/64/96/128 kbit/s 44.1/48 kHz sampling rate: 48/64/96/128/256 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, and DHCPv6

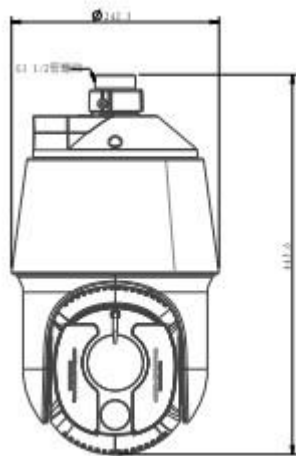
Security		
Data security	Media security	Supports web- or SDK-based media stream encryption; supports a maximum of two channels of encrypted media streams; media stream encryption and full intelligence, target recognition, or image upload through SFTP/FTP cannot be enabled at the same time; after the intelligent analysis function is enabled, only one-channel stream encryption is supported; supports encrypted storage of data in SD cards. By default, RTSP uses MD5 digest authentication.
	Video 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	One microSD card slot that supports microSDHC/microSDXC (maximum memory card capacity: 256 GB)
Alarm port	4 input ports and 2 output ports
Network port	One RJ45 10/100 Mbit/s Ethernet port
Communication serial port	RS-485 port
Audio port	Supported (one LINE IN port or one external microphone)/Supported (one-channel LINE OUT)

General Specifications	
Power type	24 V AC, PoE (IEEE 802.3Bt)
Power consumption	Maximum power consumption: 56.7 W; typical power consumption: 17.6 W
Operating temperature	−40°C to +60°C

Operating humidity	5% to 95% (non-condensing)
Surge protection	6 kV
IP rating	IP66
Equipment Anti Corrosion	Class C corrosion resistance
IK rating	IK10 (excluding the viewing window and air blower)
Weight	Net weight 8.4 kg;Gross weight 9.9 kg
Dimensions	Device dimensions ϕ242.3 mm x 443.6 mm;Package dimensions 355 mm x 590 mm x 325 mm

Dimensions



Recommended Accessories



ACC3651



ACC3631



ACC3621



ACC3611

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