

Camera	Image Sensor	1/1.8" Progressive Scan CMOS
	Max. Resolution	3504 × 3504
	Min. Illumination	Color: 0.03 Lux @ (F2.2, AGC ON), B/W: 0.006 Lux @ (F2.2, AGC ON), B/W: 0 Lux with IR
	Shutter Time	1 s to 1/100,000 s
	Day & Night	IR cut filter
Lens	Lens Type	Fixed focal lens, 1.29 mm
	Focal Length & FOV	1.29 mm, horizontal FOV 180°, vertical FOV 180°
	Iris Type	Fixed
	Aperture	F2.2
	Depth Of Field	0.2 m to ∞
DORI	DORI	D: 27.9 m O: 11.1 m R: 5.6 m I: 2.8 m
Illuminator	Supplement Light Type	IR
	Supplement Light Range	Up to 15 m
	Supplement Light Number	3
	IR Wavelength	850 nm
	Smart Supplement Light	Yes
HEOP	Open Resources	Memory: 60 MB, Smart RAM: 800 MB, eMMC: 2 GB
	Computing Power	2 TOPS
	Open Capability	Open Capability
	Deep Learning Structure	Caffe, TensorFlow, PyTorch
	Programming Language	C, C++
Video	Main Stream	50 Hz: 25 fps/60 Hz: 30 fps: Fisheye View: 3504 × 3504, 3024 × 3024, 2560 × 2560, 2048 × 2048 180 Panorama View: 3072 × 2304, 2048 × 1536 180 Dual Channel Panorama View: 3072 × 1152 Panorama View: 3072 × 2304, 2048 × 1536 4PTZ View: camera 01/camera 02/camera 03/camera 04: 1600 × 1200 Fisheye + 3PTZ View: camera 01: 2560 × 2560, 2048 × 2048, 1280 × 1280 camera 02/camera 03/camera 04: 1600 × 1200 4PTZ Fusion View: 3200 × 2400, 2048 × 1536
	Sub-Stream	50 Hz: 25 fps/60 Hz: 30 fps: Fisheye View: 720 × 720, 480 × 480 180 Panorama View: 640 × 480, 320 × 240 180 Dual Channel Panorama View: 640 × 480, 320 × 240 Panorama View: 640 × 360, 320 × 240 4PTZ View: camera 01/camera 02/camera 03/camera 04: 640 × 480, 320 × 240 Fisheye + 3PTZ View: camera 01: 720 × 720 camera 02/camera 03/camera 04: 640 × 480, 320 × 240
	Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG
	Video Bit Rate	32 Kbps to 16 Mbps
	H.264 Type	Baseline Profile, Main Profile, High Profile
	H.265 Type	Main Profile
	Bit Rate Control	CBR, VBR

	Scalable Video Coding (SVC)	H.264 and H.265 encoding
	Region Of Interest (ROI)	4 fixed regions for each stream
Fisheye Display	Mount Type	Support wall/table/ceiling mounting
	Decoding Mode	Support hardware decoding and software decoding
	Display Mode	20 display modes in total, Software decoding: fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 2PTZ, 4PTZ, fisheye + 3PTZ, fisheye + 8PTZ, hemisphere, AR hemisphere, cylinder, Hardware decoding: fisheye view, 180 panorama view, 180 dual channel panorama, panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion
Audio	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
	Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)
	Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz
	Environment Noise Filtering	Yes
Network	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, ISUP, ARP, WebSocket, WebSockets
	Simultaneous Live View	Up to 20 channels
	API	Open Network Video Interface (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP
	User/Host	Up to 32 users 3 user levels: administrator, operator, and user
	Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, host authentication (MAC address)
	Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
	Client	iVMS-4200,iVMS-4500,iVMS-5200,Hik-Connect
	Web Browser	Plug-in required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
Image	Image Parameters Switch	Yes
	Image Settings	saturation,brightness,contrast,sharpness,white balance,AGC,adjustable by client software or web browser
	Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger
	Wide Dynamic Range (WDR)	Digital WDR
	Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog
	Privacy Mask	8 programmable polygon privacy masks
Interface	Ethernet Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port
	On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256 GB
	Built-In Microphone	Yes, 4 built-in microphones
	Built-In Speaker	Yes, 1 built-in speaker
	Audio	1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
	Alarm	2 inputs, 2 outputs (max. 24 VDC, 1 A)
Event	Basic Event	Motion detection,video tampering alarm,alarm input and output,exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
	Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, scene change detection,audio exception detection,defocus detection, unattended baggage detection,object removal detection
	Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording,trigger capture
	People Counting	Counts people entering, exiting and passing by separately (The data is stored in the flash.) Supports real-time uploading and uploading by statistic cycle Sends email reports on daily, weekly, monthly or annually basis

Deep Learning Function	Queue Management	<p>Supports up to 8 detection regions, and independent arming schedule and linkage method</p> <p>Supports 2 detection modes: regional people queuing-up, waiting time detection</p> <p>Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue</p> <p>Supports raw data export for further analysis</p> <p>Supports real-time data uploading and scheduled data uploading</p> <p>Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold</p> <p><del>Waiting time detection: supports 1 alarm trigger condition, including greater than</del></p>
	Heat Map	<p>A graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.,</p> <p>Two report types are available, space heat map and time heat map line chart.</p>
	Intersection Analysis	<p>Detects and analyze flow in an intersection-like scene, and generate reports</p> <p>Support one intersection of up to 10 ways</p>
General	Power	12 VDC $\pm$ 20%, 1 A, max. 11.5 W, two-core terminal block, PoE: IEEE 802.3af, Class 3, max. 12.5 W
	Material	Metal
	Dimension	$\varnothing$ 140.3 mm $\times$ 59.4 mm ( $\varnothing$ 5.5" $\times$ 2.3")
	Package Dimension	260 mm $\times$ 230 mm $\times$ 135 mm (10.2" $\times$ 9.1" $\times$ 5.3")
	Weight	Approx. 715 g (1.58 lb.)
General Function	Heartbeat, flash log, password reset via email, password protection, one-key reset, anti-banding	