

## Specification

Camera Module	
<b>2MP 50× Laser Network Positioning System</b>	
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.05 Lux @(F1.8, AGC ON) B/W: 0.01 Lux @(F1.8, AGC ON) 0 Lux with IR
White Balance	Auto/Manual/ATW (Auto-tracing White Balance)/ Indoor/Outdoor/Fluorescent lamp/Sodium lamp
AGC	Auto/Manual
Shutter Time	1/1 s to 1/30,000 s
Day & Night	IR Cut Filter
Digital Zoom	16×
Privacy Mask	24 programmable privacy masks
Focus Mode	Auto/Semi-automatic/Manual
WDR	120 dB WDR
Lens	
Focal Length	6.6 mm to 330 mm, 50× Optical
Zoom Speed	Approx. 4.5 s (optical lens, wide-tele)
FOV	Horizontal field of view: 41.3° to 1.1° (wide-tele) Vertical field of view: 23.6° to 0.6° (wide-tele) Diagonal field of view: 47.4° to 1.3° (wide-tele)
Working Distance	10 mm to 1500 mm (wide-tele)
Aperture Range	F1.8 to F5.5
PTZ	
Movement Range (Pan)	360° endless
Pan Speed	Configurable, from 0.1°/s to 100°/s, Preset Speed: 100°/s
Movement Range (Tilt)	From -90° to 40° (auto-flip)
Tilt Speed	Configurable, from 0.1°/s to 50°/s, Preset Speed: 100°/s
Proportional Zoom	Support
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Power-off Memory	Support
Park Action	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan
PTZ Position Display	ON/OFF
Preset Freezing	Support
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output
Compression Standard	
Video Compression	Main Stream: H.265+/H.265/H.264+/H.264 Sub-Stream: H.265/H.264/MJPEG Third Stream: H.265/H.264/MJPEG
H.264 Type	Baseline Profile/Main Profile/High Profile
H.264+	Support
H.265 Type	Main Profile
H.265+	Support
Video Bitrate	32 kbps to 16384 kbps
Audio Compression	G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM
Audio Bitrate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-160Kbps(MP2L2)

Smart Feature	
Smart Detection	Face Detection, Intrusion Detection, Line Crossing Detection, Audio Exception Detection, Region Entrance Detection, Region Exiting Detection
ROI encoding	Main stream, sub-stream and third stream respectively support eight fixed areas.
Smart Record	ANR (Automatic Network Replenishment), Dual-VCA
Laser	
Laser Distance	1000 m
Smart IR	Support
Image	
Max. Resolution	1920 × 1080
Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720) 60fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Image Enhancement	HLC/BLC/3D DNR/Defog/OIS/Regional Exposure/Regional Focus
SVC	Support
Network	
Network Storage	Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 256 GB; NAS (NPS, SMB/ CIFS), ANR
Alarm Linkage	Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, Bonjour
API	Open-ended, support ONVIF, PSIA and CGI, support HIKVISION SDK and Third-Party Management Platform
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering
Client	iVMS-4200, iVMS-5200
Web Browser	IE 8+, Firefox 30+, Safari 8.0+ web browser
Interface	
Audio	1-ch audio input/1-ch audio output
Network Interface	1 RJ45 10 M/100 M Ethernet Interface
Alarm	7-ch alarm input/2-ch alarm output
RS-485	Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive
BNC	1.0 V [p-p]/75 Ω, NTSC (or PAL) composite, BNC
Power	24 VAC (Max. 110 W)
Working Environment	Temperature: Outdoor: -40°C to 70°C (-40°F to 158°F) Humidity: ≤ 90%
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Material	Aluminum alloy ADC12
Dimensions	Φ360 mm × 508 mm (Φ 14.17" × 20.00")
Weight	Approx. 13 kg (28.66 lb)