

Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	Resolution	256 × 192
	Pixel Pitch	12 μm
	Spectral Range	8 μm to 14 μm
	NETD	< 40 mK (25°C, F1.0)
	Focal Length	9.7 mm
	IFOV	1.24 mrad
	Field of View	18.0° × 13.5° (H × V)
	Aperture	F1.0
Optical Module	Digital Zoom	×2, ×4
	Image Sensor	1/2.7" Progressive Scan CMOS
	Resolution	2688 × 1520
	Min. Illumination	0.0089Lux @(F1.6,AGC ON) ,0 Lux with IR
	Shutter Speed	1 s to 1/100,000 s
	Focal Length	8.0 mm
	Field of View	39.4° × 22.1° (H × V)
	Aperture (Range)	F1.6
Image Effect	WDR	120 dB
	Target Coloration	Yes. Supported in white hot and black hot mode.
Illuminator	IR Distance	Up to 30 m
	IR Intensity and Angle	Automatically adjusted
Audible and Visual Alarm	White Light Range	Up to 30 m
	Visual Alarm	Yes. White light alarm with adjustable flashing frequencies
	Audio alarm	Yes, for two types of audible alarm (VCA and Temperature Exception) 2 preset voice alerts (one for each) 6 importable user-defined voice alerts (6 options shared in the two types)
Smart Function	VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total.
	Temperature Measurement	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line)
	Temperature Range	-20°C to 150°C (-4°F to 302°F)
	Temperature Accuracy	± 8°C (± 14.4°F)
Video and Audio	General Function	Fire detection, smoking detection, sun-reflection filter
	Main Stream	Thermal: 25 fps (1280 × 720, 704 × 576, 640 × 512, 320 × 240) Optical: 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
	Sub-stream	Thermal: 25 fps (704 × 576, 640 × 512, 320 × 240) Optical: 50 Hz: 25 fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 480, 352 × 240)
	Video Compression	Main Stream: H.265/H.264 Sub-Stream: H.265/H.264/MJPEG
	Audio Compression	G.722.1/G.711ulaw/G.711alaw/MP2L2/G.726/PCM
Network	Protocols	IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,SFTP,SRTP,TLS
	Network Storage	MicroSD/SDHC/SDXC card (up to 256 G) local storage, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
	API	ISAPI, HIKVISION SDK,ISUP, and third-party management platform, Open Network Video Interface,ONVIF (Profile S, Profile G)
	Simultaneous Live View	Up to 20 channels
	User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
	Security	User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering

	Client	iVMS-4200, Hik-Connect
	Web Browser	Live view (plug-in allowed) : Internet Explorer 11 Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 + Local service : Chrome 57.0 +, Firefox 52.0 +
General	Web Client Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
	Power Supply	24 VAC $\pm$ 25%, 12 VDC $\pm$ 25%, two-core terminal block PoE (802.3af, class 3)
	Power Consumption	24 VAC $\pm$ 25%: 0.8 A, Max.8.5 W 12 VDC $\pm$ 25%: 0.7 A, Max.8.5 W PoE (802.3af, class 3): 36 V to 57 V, 0.24 A to 0.15 A, Max. 8.5 W
	Protection Level	IP67 Standard TVS 6000V lightning protection, surge protection, voltage transient protection IK10-rated housing
	Dimensions	321.3 mm $\times$ 106.1 mm $\times$ 107.0 mm (12.65" $\times$ 4.18" $\times$ 4.21")
	Weight	1550 g (3.41 lb)