

Specifications

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max. Resolution	160 × 120 (the resolution of output image is 320 × 240)
Pixel Interval	25μm
Response Waveband	8μm to 14μm
NETD	less than 50 mk (0.05°C), F#=1.0
Lens (Focal Length)	10 mm
MRAD	2.50 mrad
Field of View	23.3° × 17.6° (H × V)
Min. Focusing Distance	1.0 m
Aperture	F1.0
Optical Module	
Max. Image Resolution	1920 × 1080
Image Sensor	1/2.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux @(F1.5,AGC ON), B/W: 0.0002 Lux @(F1.5, AGC ON)
Shutter Speed	1s to 1/100,000s
Lens (Focal Length)	8 mm
Field of View	40.0° × 22.4°(H × V)
WDR	Digital WDR
Day & Night	IR cut filter with auto switch
Image Function	
Bi-spectrum Image Fusion	Fusion view of thermal view and overlaid details of the optical channel
Picture in Picture	Combines details of thermal and optical image PIP, overlay thermal image on optical image
Smart Function	
VCA (Video Content Analysis)	4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules.
Temperature Measurement	3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line).
Temperature Range	-20 °C to +150 °C (-4 °F to +302°F)
Temperature Accuracy	± 8 °C (± 14.4 °F)
Fire detection	Dynamic fire point detection, up to 10 fire points detectable.
Infrared	
IR Distance	Up to 40 m
IR Intensity and Angle	Automatically adjusted

Network	
Main Stream	Visible Light: 50Hz: 25fps (1920 × 1080), 25fps (1280 × 960), 25fps (1280 × 720) Visible Light: 60Hz: 30fps (1920 × 1080), 30fps (1280 × 960), 30fps (1280 × 720) Thermal: 50fps (160 × 120 (the resolution of output image is 320 × 240))
Sub Stream	Visible Light: 50Hz: 25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144) Visible Light: 60Hz: 30fps (704 × 480), 30fps (352 × 240), 30fps (176 × 120) Thermal: 50fps (160 × 120 (the resolution of output image is 320 × 240))
Video Compression	H.265/H.264/MJPEG, H.265+/H.264+ encoding with Baseline/Main/High Profile
Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
Simultaneous Live View	Up to 20
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security Measures	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering
Integration	
Alarm Input	2-ch inputs (0-5vDC)
Alarm Output	2-ch relay outputs, alarm response actions configurable
Alarm Action	SD recording/Relay output/Smart capture/FTP upload/Email linkage
Audio Input	1 3.5mm Mic in/Line in interface. Line input: 2-2.4V[p-p], output impedance:1KΩ±10%
Audio Output	Linear Level; Impedance: 600Ω
Reset	1 Reset Button
Ethernet	1 RJ45 10M/100M Self-adaptive Ethernet interface
SD Memory Card	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 128G), support manual/alarm recording
Analog Video Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC
Application Programming	Open-ended API, support ISAPI, HIKVISION SDK and third-party management platform
Client	iVMS-4200
Web Browser	IE9+, chrome31-chrome44, Firefox 30-Firefox51, Safari 5.02+(mac)
General	
Menu language	English
Power	24 VAC± 25%, 12 VDC± 20%, two-core terminal block PoE (802.3at, class 4)
Power Consumption	24 VAC± 25%: 0.84 A, 12 VDC ± 20%: 1.6 A, max. 10W (20 W with De-icing Heater On), PoE (802.3at, class 4): 42.5 V to 57 V, 0.35 A to 0.47 A
Working Temperature/Humidity	-40 °C to 60 °C (-40 °F to 140 °F), 90% or less
Protection Level	IP66 Standard TVS 6000V Lightning protection, surge protection, voltage transient protection
Dimensions	314 mm × 104 mm × 104 mm (12.36 " × 4.09" × 4.09 ")
Weight	Approx. 1.55Kg (3.42lb)