

Thermal

Image Sensor VOx Uncooled Focal Plane Arrays

Resolution 384×288

Pixel Interval 17μm

Response Waveband 8μm to 14μm

NETD Less than 40 mK (@25°C,F#=1.0)

Focal Length 9.7mm

Focus Mode Athermalized

IFOV 1.75 mrad

Aperture F1.0

Field Of View 37.5° × 28.5° (H × V)

Min. Focusing Distance 1 m

Optical

Image Sensor 1/2.7" Progressive Scan CMOS

Resolution 2688×1520, 4MP

Min. Illumination Color: 0.0089 Lux @(F1.6, AGC ON), B/W: 0.0018 Lux @(F1.6, AGC ON)

Field Of View 84° × 44.8° (H × V)

Focal Length 4mm

Focus Mode Fixed

Shutter Speed 1s to 1/100,000s

White Balance Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Daylight Lamp/Sodium Lamp

Day & Night Mode	IR cut filter with auto switch
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WDR	120 dB
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Illuminator

IR Distance	Up to 50 m
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IR Intensity And Angle	Automatically adjusted
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Feature

Bi-Spectrum Image Fusion	Display the details of optical channel on thermal channel
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Fusion

Picture In Picture	Display partial image of thermal channel on the full screen of optical channel
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Smart Function

Temperature Measurement	Support 3 temperature measurement rule types, 21 rules (10 points, 10 areas, and 1 line).
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Temperature Range	From 30°C to 45°C (86°F ~ 113°F)
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Temperature Accuracy	± 0.5 °C
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Network

Main Stream	Thermal: 50fps(1280 × 720, 704 × 576, 384 × 288, 352 × 288);Optical: 50Hz: 25fps (1920 × 1080), 25fps (1280 × 960), 25fps (1280 × 720);Optical: 60Hz: 30fps (1920 × 1080), 30fps (1280 × 960), 30fps (1280 × 720)
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Sub Stream	Thermal: 25fps(704 × 576, 352 × 288, 320 × 240);Optical: 50Hz:
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25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144);Optical:
60Hz: 30fps (704 × 480), 30fps (352 × 240), 30fps (176 × 120)

Video Compression	H.264 (Baseline/Main/High Profile) /MJPEG/H.265
Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK
Security	Password protection, HTTPS encryption, 802.1X authentication (EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, RTP over HTTPS
Simultaneous Live View	Up to 20

Interface

Client	iVMS-4200, Hik-Connect
Web Browser	Plug-in required: IE8-IE11, Chrome 41-44, Firefox 30.0-51
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, 3.5 mm Mic in/Line in interface. Line input: 2 - 2.4 V [p-p], output impedance: 1 K Ω \pm 10%
Audio Output	Linear Level; Impedance: 600 Ω

RS485	1, RJ45 10M/100M Self-adaptive Ethernet interface. 1, RS-485 interface
Analog Video Output	1.0V [p-p]/75Ω, BNC, PAL/NTSC
Communication Interface	1, RJ45 10M/100M Self-adaptive Ethernet interface. 1, RS-485 interface
On-Board Storage	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 128G), support manual/alarm recording
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)
Wiper	No
User/Host Level	Up to 32 users, 3 levels: Administrator, Operator, User
Power	24 VAC ± 25%;12 VDC ± 25%;PoE (802.3af, class 3): 44 V to 57 V, 0.22 A to 0.17 A
Power Consumption	18 VAC to 30 VAC: 0.38 A to 0.22 A, max. 9 W 9 VDC to 15 VDC: 0.63 A to 1.06 A, max. 9 W PoE (802.3af, class 3): 44 V to 57 V, 0.22 A to 0.17 A, max. 9.5 W
Work Temperature/Humidity	From 10 °C to 35 °C (Indoor and windless environment use only); Humidity: 95% or Less

Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimension	376.1 mm × 119.1 mm × 118.1 mm (14.81" × 4.68" × 4.65")
Weight	Approx. 1.82 kg (4.01 lb)