

## Thermal

**Image Sensor** VOx Uncooled Focal Plane Arrays

**Resolution** 160×120

**Pixel Interval** 17μm

**Response Waveband** 8μm to 14μm

**NETD** Less than 40 mK (@25°C,F#=1.1)

**Focal Length** 6.2mm

**IFOV** 2.74 mrad

**Aperture** F1.1

**Field Of View** 25.0° × 18.7° (H × V)

**Min. Focusing Distance** 0.6 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** 39.42° × 22.14°(H × V)

**Focal Length** 8mm

**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

**WDR** 120 dB

## **Illuminator**

<b>IR Distance</b>	Up to 15 m
<b>IR Intensity And Angle</b>	Automatically adjusted

## **Feature**

<b>Bi-Spectrum Image</b>	Display the details of optical channel on thermal channel
<b>Fusion</b>	
<b>Picture In Picture</b>	Display partial image of thermal channel on the full screen of optical channel

## **Smart Function**

<b>Temperature Range</b>	From 30°C to 45°C (86°F ~ 113°F)
<b>Temperature Accuracy</b>	± 0.5 °C

## **Network**

<b>Main Stream</b>	Thermal: 25fps(1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240);Optical: 50Hz: 25fps (2688 × 1520), 25fps (1920 × 1080), 25fps (1280 × 720);Optical: 60Hz: 30fps (2688 × 1520), 30fps (1920 × 1080), 30fps (1280 × 720)
<b>Sub Stream</b>	Thermal: 25fps(704 × 576, 352 × 288, 320 × 240);Optical: 50Hz: 25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144);Optical: 60Hz: 30fps (704 × 480), 30fps (352 × 240), 30fps (176 × 120)
<b>Video Compression</b>	H.264 (Baseline/Main/High Profile) /MJPEG/H.265
<b>Audio Compression</b>	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM

<b>Protocols</b>	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour
<b>API</b>	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK
<b>Security</b>	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
<b>Simultaneous Live View</b>	Up to 20
<b>Interface</b>	
<b>Client</b>	iVMS-4200, Hik-Connect
<b>Web Browser</b>	Plug-in required: IE8-IE11, Chrome 41-44, Firefox 30.0-51
<b>Alarm Input</b>	1-ch inputs (0-5 VDC)
<b>Alarm Output</b>	1-ch relay outputs, alarm response actions configurable
<b>Alarm Action</b>	SD recording/Relay output/Smart capture/FTP upload/Email linkage
<b>Audio Input</b>	1, 3.5 mm Mic in/Line in interface. Line input: 2 - 2.4 V [p-p], output impedance: 1 K $\Omega$ $\pm$ 10%
<b>Audio Output</b>	Linear Level; Impedance: 600 $\Omega$
<b>Communication Interface</b>	1, RJ45 10M/100M Self-adaptive Ethernet interface. 1, RS-485 interface
<b>On-Board Storage</b>	Built-in MicroSD card slot, supporting MicroSD/SDHC/SDXC card (up to 256 G), supports manual/alarm recording

## General

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<b>Web Client Language</b>	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)
<b>User/Host Level</b>	Up to 32 users, 3 levels: Administrator, Operator, User
<b>Power</b>	PoE (802.3af, class 3), 42.5 V to 57 V, 0.14 A to 0.22 A;DC 12V, 0.5A
<b>Power Consumption</b>	PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, max. 6.5 W 12 VDC $\pm$ 20%: 0.5 A, max. 6 W
<b>Work</b>	From 10 °C to 35 °C (Indoor and windless environment use only);
<b>Temperature/Humidity</b>	Humidity: 95% or Less
<b>Protection Level</b>	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
<b>Dimension</b>	138.3 mm $\times$ 138.3 mm $\times$ 123.1 mm (5.45 " $\times$ 5.45" $\times$ 4.85 ")
<b>Weight</b>	940 g (2.07 lb)

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