

FEATURES

- Thermal & Optical Bi-Spectrum Video with One IP
- Vanadium Oxide Uncooled Focal Plane Detector
- Thermal: 256x192 Resolution, 12 $\mu\text{m} \leq 40\text{mK}$ @ 25°C F1.0
- Optical: 2592 x 1944 (5MP)
- Supports Reliable Fire Detection and Fire Shield Area
- Supports Various AI Functions at Thermal and Optical Both Streams
- Supports Dual Image Fusion
- Temperature Exception Alarm
- Temperature Range: -20°C ~ 150°C
- Supports Audio and Light Alarm with Built-in Red and Blue Flashing Lights



SPECIFICATIONS

Thermal Module

Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max Resolution	256x192
Pixel Interval	12 μm
Response	8-14 μm
Waveband	
NETD (Noise Equivalent Temperature Difference)	$\leq 40\text{mK}$ @ 25°C F1.0, 25Hz
Lens (Focal Length)	3.2mm
IFOV	3.75 mrad
Field of View	56°x 42°
Min. Focusing Distance	0.3m
DRI Distance Human	Detection: 126m (413Ft), Recognition: 32m (105Ft), Identification: 21m (69Ft)
DRI Distance Vehicle	Detection: 421m (1381Ft), Recognition: 90m (295Ft), Identification: 53m (174Ft)
Heat Detection Distance	20m (66 Ft)
Aperture	F1.1

Image Function

Bi Spectrum Image Fusion	Fusion View of Thermal View and Overlaid Details of the Optical Channel
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Optical Module

Max Image Resolution	2592 x 1944
Image Sensor	1 / 2.7" Progressive Scan CMOS
Min. Illumination	Color: 0.003 Lux (F1.6, AGC On), B/W: 0 @ IR On
Shutter Speed	1/5s to 1/100,000s
Lens (Focal Length)	3.6mm
Field of View	Horizontal: 81°, Vertical: 57°, Diagonal: 108°
WDR	DWDR
Day & Night	IR Cut Filter with Auto Switch

Smart Function

Intelligent Analytics	Optical: Intrusion Region Entrance Region Exiting Line Crossing Pedestrian and Vehicle Object Detection Cross Counting Crowd Density Queue Length Heat Map Rare Sound Face Detection
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Intelligent Analytics

Thermal:
Intrusion
Region Entrance
Region Exiting
Line Crossing
Pedestrian and Vehicle
Temperature Exception Alarm

Temperature Measurement

Global, 12 Points, 12 Areas,
And 12 Lines

Temperature Range

-20°C ~ 150°C
(-4°F ~ 1302°F)

Temperature Accuracy Fire Detection

± 8°C (± 14.4°F)
Yes

Illuminator

Supplement Light Type

IR and Warm Light

Supplement Light Range

Up to 30m (IR) / 15m
(Warm Light)

IR Wavelength Smart Supplement Light Warning Light

850nm
Yes
1 Red and 1 Blue Flashing
Light

Integration

Alarm Input Alarm Output Alarm Action

1-Channel Input
1-Channel Input
SD Recording / Alarm Output
Smart Capture / FTP Upload
E-mail Linkage / Audio Alarm
Red and Blue Flashing Light

Audio Input Audio Output

1-Channel
1-Channel Output /
1 Built-in Speaker

Reset Communication Interface

Yes
1, RJ45 10M/100M
Self-Adaptive Ethernet Interface

SD Memory Card

Built-in Micro SD Card Slot
(Up to 256 GB)

BNC Output Web Browser

No
IE10/11, Safari V12.1 Above,
Firefox V.52 Above, Google
Chrome V.57 Above, Edge
V.79 Above

Network

Main Stream

Visible Light

50Hz @ 25FPS
5MP (2592 x 1944)
4MP (2592 x 1520)
3MP (2304 x 1296)
1080P (1920 x 1080)
960P (1280 x 960)
720P (1280 x 720)

Thermal

50Hz/60Hz @ 25FPS
1280 x 720
640 x 480

Sub-Stream

50Hz @ 25FPS
5MP (2592 x 1944)
4MP (2592 x 1520)
3MP (2304 x 1296)
1080P (1920 x 1080)
960P (1280 x 960)
720P (1280 x 720)

Mobile Stream

Visible Light

50Hz @ 25FPS
VGA(640 x 480)
QVGA(640 x 480)
60Hz @ 30FPS
VGA(640 x 480)
QVGA(640 x 480)

Video Compression

H.265/H.265+/H.264/
H.264+MJPEG

Audio Compression Protocols

G.711u/G.711a
TCP/IP,HTTP,DHCP,DNS,
DDNS,RTP/RTSP,SMTP,
NTP,UPnP,SNMP,HTTPS,
FTP

General

Menu Language

English, Russian, German,
Italian, French, Portugese
Spanish, Turkish, Japanese

Power

Power Consumption

12VDC ±20%, POE (802.3af)
Max 10.4W

Working Temperature

-35°C ~ 60°C
(-31°F ~ 140°F)

Humidity

Dimensions

90% or less
108mm x 314.6mm
(4.25" x 12.39 ")

Weight

Environment

1.25kg (2.76lb)
RoHS2.0

DIMENSIONS