ThermTec

ZS-HM2X Series

Dual Spectrum Bullet Camera

HM2X is on-going updating AI-behavior analysis algorithm, temperature measurement and fire detection in the bullet camera, which adopts resolution 256*192,12um pixel pitch infrared detector and a 4MP visible COMS,its widely used in perimeter security in residential and industrial areas.

Image Rotation Model

Based on advanced algorithm to realize image out 9:16 which can be suitable for narrow scene, corridor, staircase etc.

Powerful Behavior Analysis Algorithms

New generation video content analysis(VCA) function for high accuracy vehicle/human recognition.

Perfect Software Access Capacity

Support kinds of network protocols for easily access third party platform: ONVIF,API,http,SDK etc.Perfect communication with Network Optix system.

Affordable Price With The Dual Spectrum Images

Entry level infrared thermal image & daylight camera, and significant image coding technique H.264/H.265 to save cost.

Compact Design

Lightweight dual channels bullet camera, more convenient installation, protection level IP66.

Intelligent Alarm Linkage

Support alarm linkage functions both VCA and fire detection events, as well as inbuilt sound-light alarm.

Applications

Perimeter protection

Solar power plant

Fire protection

Warehouse security

Specifications

Thermal Module	HM2-X			
Detector	VOx Uncooled FPA			
Resolution/ Pixel pitch	256x192/12μm			
NETD	≤35mK@ 25℃			
Spectral range	8-14μm			
Focus Method	Fixed lens			
Focal Length	2mm	3.6mm	7mm	10mm
FOV	90°x 65.9°	50°x 37°	24.8°x 18.6°	17°x 13°
Image adjustment	Auto/Manual adjustment for contrast ratio & brightness & acutance			
Uniformity correction	Auto/Manual shutter, background corrextion			

Optical Module

Image Sensor	1/2.8" Progressive Scan CMOS			
Resolution	2560(H)×1440(V)			
Focal Length	3mm	4mm	6mm	8mm
FOV	106.7°x 56.2°	87.5°x 44.4°	54°x 29°	41.4°x 23.9°
IR Range	30m			

Image Effect

Thermal image process	AGC, IDE
Image fusion	Support
Color Palette	Optional 9 color palettes(rust, rainbow, white/black, etc.)

Smart Function

VCA	4 VCA types (motion detection, cross line, intrusion, area entry and exit)
Fire Detection	Support
Sound and light alarm	Add speakers and embedded flashing lights alarm
Temperature Measurement	3 temperature measurement rule types (points, areas, lines).
Temperature Range	-20℃~+135℃
Temperature Accuracy	± 8 ℃ (± 14.4 °F)

Video and Audio

Video Compression	H.264 / H.265
Main-Stream (Visible)	2560*1440,1920*1080,1280*720
Sub-stream (Visible)	1280*720,768*576,640*480,384*288
Main-Stream (Thermal)	384*288，256*192
Audio	Sound pick-up

Network

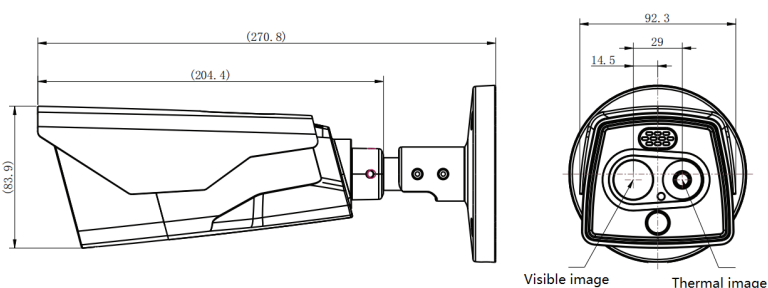| Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP, TCP,UDP,DHCP
API	ISAPI,SDK, third-party management platform, ONVIF
Common function	Hearbet, password protection, multi-user access control
Security	Support password protection, bonding MAC ID, IP filtration
Simultaneous Live View	10 channels
User/Host level	Up to 9 users, 3 levels: Administrator, Operator, General
Web Browser	Google Kernel Browser, Edge

Interface

Alarm	1x ch input, 1x ch output
Serial port	1x ch RS485
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet
Storage	Embedded EMMC 16GB

General

Web Client Language	English
Power Supply	DC 12V/POE
Power Consumption	3W(w/o IR)
Work Temperature/ Humidity	-20℃~+60℃ (customizated -40℃), <90%RH
Storage temperature	−45℃ ~ +75℃
Protection	IP67
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection
Dimension	276. 9mm*92. 21*89. 8
Weight	＜1. 3kg

Dimension

Visible image   Thermal image

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