

ZS-HM2 Series

Dual Spectrum Bullet Camera

HM2 series 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 algorithm

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



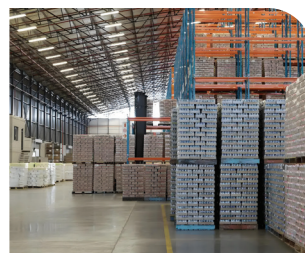
Perimeter protection



Solar power plant



Fire protection



Warehouse security

Specifications

Thermal Module	HM2			
Detector	VOx Uncooled FPA			
Resolution/Pixel pitch	256x192/12μm			
NETD	< 50mK@ 25°C			
Spectral range	8-14μm			
Focus Method	Fixed lens			
Focal Length	2mm	3.6mm	7mm	10mm
FOV	90°x65.9°	50°x37°	24.8°x18.6°	17°x13°
Image adjustment	Auto/Manual adjustment for contrast ratio & brightness & acutance			
Uniformity correction	Auto/Manual shutter, background correction			

Optical Module

Image Sensor	1/2.8" Progressive Scan CMOS			
Resolution	2560(H)x1440(V)			
Focal Length	3mm	4mm	6mm	8mm
FOV	106.7°x56.2°	87.5°x44.4°	54°x29°	41.4°x23.9°

Image Effect

Thermal image process	AGC, IDE			
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°C~+ 135°C
Temperature Accuracy	± 8 °C (± 14.4 °F)

Interface

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

General

Power Supply	DC 12V/POE
Power Consumption	3W(w/o IR)
Work Temperature/ Humidity	-20°C~+60°C (customized -40°C) , <90% RH
Protection	IP67
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection
Dimension	271mm*93mm*84mm
Weight	< 1.2kg

DORI Range Table

Thermal lens	Detection Range (Vehicles: 1.4x4 m)	Detection Range (Humans: 1.8x0.5 m)	Recognition Range (Vehicles: 1.4x4 m)	Recognition Range (Humans: 1.8x0.5 m)	Identification Range (Vehicles: 1.4x4 m)	Identification Range (Humans: 1.8x0.5 m)
2 mm	156m	56m	39m	14m	19m	7m
3.6 mm	280m	100m	70m	25m	35m	13m
7 mm	544m	194m	136m	49m	68m	24m
10 mm	778m	278m	194m	69m	97m	35m

*The table is only for reference and the performance may vary according to different environment.

*The optimal human detection, recognition, and identification distances are calculated according to Johnson's Criteria.

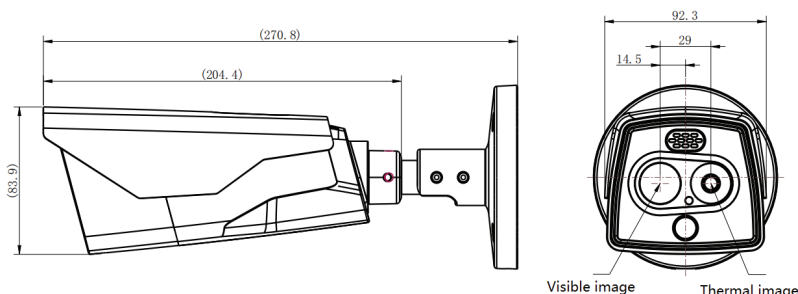
Notice:

Detection Range: In order to distinguish an object from the background.

Recognition Range: In order to classify the object(animal, human, vehicle, etc.).

Identification Range: In order to identify the object and describe it in details.

Dimension



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