



- Thermal: 12μm 640×512
- Thermal lens: 9.1mm/13mm/19mm/25mm athermalized lens
- Visible: 1/2.8" 5MP CMOS
- Visible lens: 4mm/6mm/6mm/12mm
- Support tripwire/intrusion/abandon detection
- Support up to 20 color palettes
- 2/2 alarm in/out, 1/1 audio in/out
- Micro SD Card, IP67, PoE
- Support Fire Detect, Temperature Measurement

## Specification

Model Number	DI-HM54-69	DI-HM56-613	DI-HM56-619	DI-HM512-625
<b>Thermal Module</b>				
Detector Type	Vanadium Oxide Uncooled Focal Plane Arrays			
Max. Resolution	640×512			
Pixel Pitch	12μm			
Spectral Range	8 ~ 14μm			
NETD	≤40mk (@25°C, F#=1.0, 25Hz)			
Focal Length	9.1mm	13mm	19mm	25mm
Field of View	48°×38°	33°×26°	22°×18°	17°×14°
F Number	1.0	1.0	1.0	1.0
I FOV	1.32mrad	0.92mrad	0.63mrad	0.48mrad
Color Palettes	20 color modes selectable such as Whitehot, Blackhot, Iron, Rainbow.			
<b>Optical Module</b>				
Image Sensor	1/2.8" 5MP CMOS			
Resolution	2560×1920			
Focal Length	4mm	6mm	6mm	12mm
Field of View	65°×50°	46°×35°	46°×35°	24°×18°
Low Illuminator	0.005Lux @ (F1.2, AGC ON), 0 Lux with IR			
WDR	120dB			
Day/Night	Auto IR-CUT / Electronic ICR			
Noise Reduction	3DNR			
IR Distance	Up to 40m			
<b>Image Effect</b>				
Bi-Spectrum Image Fusion	Display the details of optical channel on thermal channel			
Picture In Picture	Display thermal channel on optical channel with picture-in-picture mode			

Network		
Network Protocols	IPv4, HTTP, HTTPS, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP	
API	ONVIF, SDK	
Simultaneous Live View	Up to 20 channels	
User Management	Up to 20 users, 3 levels: Administrator, Operator, User	
Web Browser	IE, support English, Chinese	
Video & Audio		
Main Stream	Visual	50Hz: 25fps (2560×1920, 2560×1440, 1920×1080, 1280×720) 60Hz: 30fps (2560×1920, 2560×1440, 1920×1080, 1280×720)
	Thermal	50Hz: 25fps (1280×1024, 1024×768) 60Hz: 30fps (1280×1024, 1024×768)
Sub Stream	Visual	50Hz: 25fps (704×576, 352×288) 60Hz: 30fps (704×480, 352×240)
	Thermal	50Hz: 25fps (640×512) 60Hz: 30fps (640×512)
Video Compression	H.264/H.265	
Audio Compression	G.711a/G.711u/AAC/PCM	
Picture Compression	JPEG	
Temperature Measurement		
Temperature Range	-20°C~+550°C	
Temperature Accuracy	±2°C/±2% with max. Value	
Temperature Rule	Support global, point, line, area and other temperature measurement rules to linkage alarm	
Smart Features		
Fire Detection	Support	
Smart Record	Alarm recording, Network disconnection recording	
Smart Alarm	Network disconnection, IP addresses conflict, SD card error, Illegal access, burn warning and other abnormal detection to linkage alarm	
Smart Detection	Support Tripwire, intrusion and others IVS detection	
Voice Intercom	Support 2-ways voice intercom	
Alarm Linkage	Video recording / Capture / email / alarm output / audible and visual alarm	
Interface		
Network Interface	1 RJ45, 10M/100M Self-adaptive Ethernet interface	
Audio	1 in, 1 out	
Alarm In	2-ch inputs (DC0-5V)	
Alarm Out	2-ch relay output (Normal Open)	
Storage	Support Micro SD card (up to 256G)	
Reset	Support	
RS485	1, support Pelco-D protocol	

General	
Work Temperature /Humidity	-40°C~+70°C, < 95% RH
Protection Level	IP67
Power	DC12V±25%, POE (802.3at)
Power Consumption	Max. 8W
Dimensions	319.5mm×121.5mm×103.6mm
Weight	Approx. 1.8Kg

## DRI Distance

Target: Human size is 1.8m×0.5m (Critical size is 0.75m), Vehicle size is 1.4m×4.0m (Critical size is 2.3m).  
The target detection, recognition and identification distances are calculated according to Johnson's Criteria.

The recommended distances of Detection, Recognition and Identification are as follows:

Lens	Detect		Recognize		Identify	
	Vehicle	Human	Vehicle	Human	Vehicle	Human
9.1mm	1163m (3816ft)	379m (1243ft)	291m (955ft)	95m (312ft)	145m (476ft)	47m (154ft)
13mm	1661m (5449ft)	542m (1778ft)	415m (1362ft)	135m (443ft)	208m (682ft)	68m (223ft)
19mm	2428m (7966ft)	792m (2598ft)	607m (1991ft)	198m (650ft)	303m (994ft)	99m (325ft)
25mm	3194m (10479ft)	1042m (3419ft)	799m (2621ft)	260m (853ft)	399m (1309ft)	130m (427ft)

## Dimension

