

HM-TD2H67H1-15/Q Thermographic Heat Resistant Bullet Camera



HIKMICRO HM-TD2H67H1-15/Q Thermographic Heat Resistant Bullet Camera is able to measure object's temperature at a high temperature of environment in real time. With the advantage of standing high temperature, low power consumption, it can independently be used for failure detection, and industrial process control. The industries can be applied to devices for molten steel/molten iron detection, cement rotary kiln, glass processing, automobile lab, temperature measurement of conveyor belt for transferring billet, rail rolling temperature measurement, etc.

- 640 × 512 resolution, high sensitivity sensor
- Object temperature range: 0°C to 800°C (32°F to 1472°F), 600°C to 1800°C (1112°F to 3272°F); Max. ($\pm 2^{\circ}\text{C}$, $\pm 2\%$)
- Temperature measurement at user-defined points, lines, and areas
- Color alarm (isotherm) available for Above, Between, and Below object temperatures
- Air Cooling and Liquid Cooling Housing with Gas and Water Thread on the Top for High Ambient Temperature Environment
- Working Temperature/Humidity with Air Cooling and Liquid Cooling: 0 °C to 200 °C (32 °F to 392 °F); 95% or less
- Working Temperature/Humidity without Air Cooling and Liquid Cooling: -20 °C to 65 °C (-4 °F to 149 °F); 95% or less
- Real-time Temperature Data Reporting

• Specification

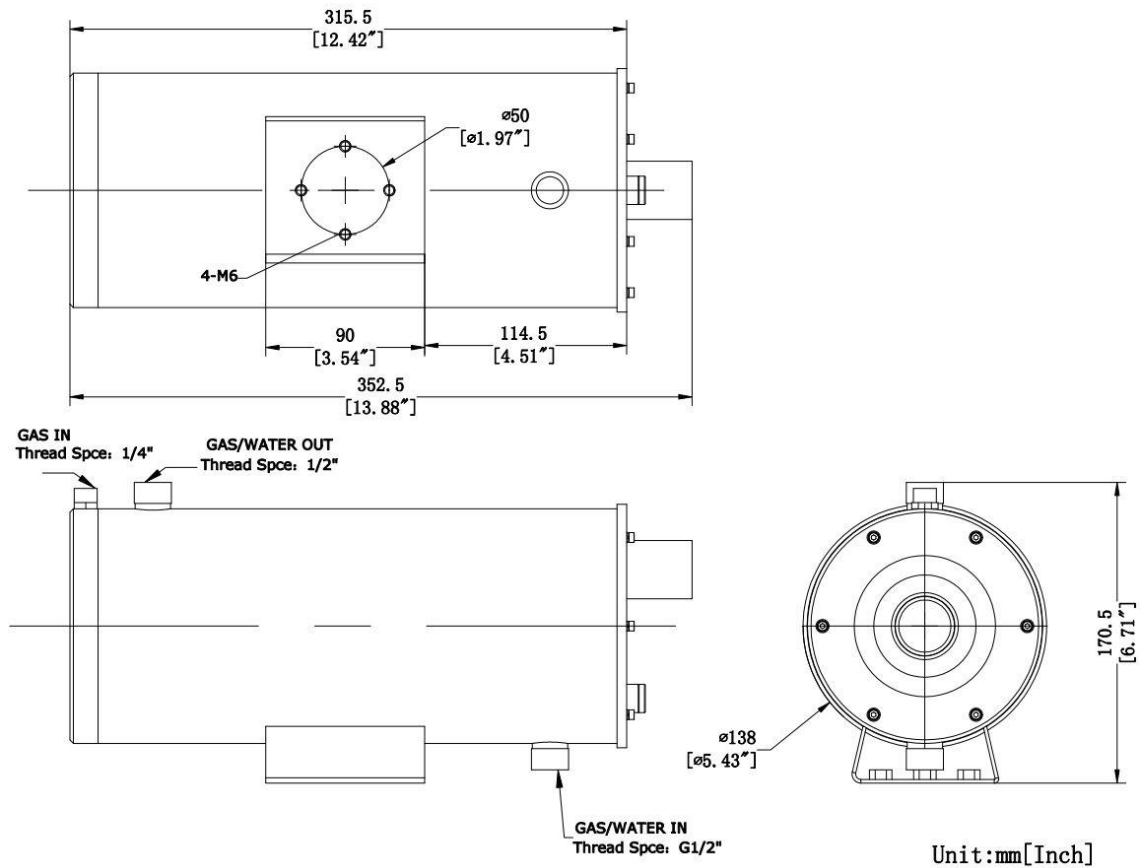
Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	640 x 512
Pixel Pitch	17 μm
Spectral Range	8 μm to 14 μm
NETD	$\leq 35 \text{ mK}$ (@25° C, F# = 1.0)
Focal Length	15 mm
Focus Mode	Athermalized
IFOV	1.13 mrad
Aperture	F1.5
Field of View	41.5° x 33.3° (H x V)
Min. Focusing Distance	0.5 m
Digital Zoom	1x, 2x, 4x, 8x
Measurement and Analysis	
Object Temperature Range	0°C to 800°C (32°F to 1472°F), 600°C to 1800°C (1112°F to 3272°F)
Temperature Accuracy	Object temperature 100°C to 1800°C (212°F to 3272°F), $\pm 2\%$ for ambient temperature 18°C to 25°C (64.4°F to 77°F) and $\pm 3\%$ for ambient temperature 25°C to 50°C (64.4°F to 77°F)
Measurement Presets	Hot spot, cold spot in real time
Point	10 User Presets
Line	1 User Presets
Area	10 User Presets
Color Alarm (Isotherm)	Above/Between/Below
Thermographic Integration	
Temperature Metadata	Continuous output data of preset thermographic rules and measured temperature
Thermographic Data Encoding	4 fps, 32-bit 640 x 512 per frame
Thermographic Data Upload	Real-time full-screen thermographic data matrix (16-bit or 32-bit 640 x 512) via RTSP, ISAPI, and SDK
Raw Data Upload	Real-time full-screen YUV data via RTSP and SDK
Video and Image	
Main Stream	50 fps (640 x 512)
Video Compression	H.264/H.265/MJPEG
Color Palettes	15 options: White Hot, Black Hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2, Speia, Color 1, Color 2, Ice Fire, Rain, Red Hot, Green Hot, Dark Blue
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE

API	MODBUS, ISAPI, Network SDK, Open Network Video Interface (Profile S, Profile G)
Simultaneous Live View	Up to 20 channels
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering
Client	HIKMICRO Studio
Interface	
Alarm Input	1, alarm input (0-3.3 VDC)
Alarm Output	1, alarm output; NC, level quantity
Communication Interface	1, RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available)
Analog Output	1, CVBS output
General	
Menu Language	English
Power Supply	10-30 VDC, Max. 4.8 W
Material	SUS304
Working Temperature/Humidity	0 °C to 200 °C (32 °F to 392 °F); 95% or less with air cooling and liquid cooling ; -20 °C to 65 °C (-4 °F to 149 °F); 95% or less without air cooling or liquid cooling
Protection Level	IP67
Dimensions	352.5 mm × 170.5 mm × 138 mm (13.88" x 6.71" x 5.43")
Weight	Approx. 6520 g (14.37 lb)
High-temperature Resistance	
Cooling Liquid	(application example with incoming water at 20 °C (68 °F) temperature): Ambient Temperature 80 °C (176 °F), Flow Rate above 0.65 L/min ; Ambient Temperature 100 °C (212 °F), Flow Rate above 1.22 L/min ; Ambient Temperature 150 °C (302 °F), Flow Rate above 1.76 L/min ; Ambient Temperature 200 °C (392 °F), Flow Rate above 3.3 L/min ;
Cooling Air	(application example with incoming air at 20 °C (68 °F) temperature and with pressure 7 bar): Ambient Temperature 70 °C (158 °F), Flow Rate above 15.34 m ³ /h ; Ambient Temperature 85 °C (185 °F), Flow Rate above 32.54 m ³ /h ; Ambient Temperature 100 °C (212 °F), Flow Rate above 37.82 m ³ /h ; Ambient Temperature 120 °C (248 °F), Flow Rate above 53.97 m ³ /h ;

▪ Available Model

HM-TD2H67H1-15/Q

▪ Dimension



- Accessory
- Optional

DS-1707ZJ-E
Wall Mount Bracket



COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.

