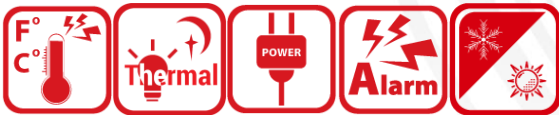


HM-TD2H67H1-15/Q Thermographic Heat Resistant Bullet Camera



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 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

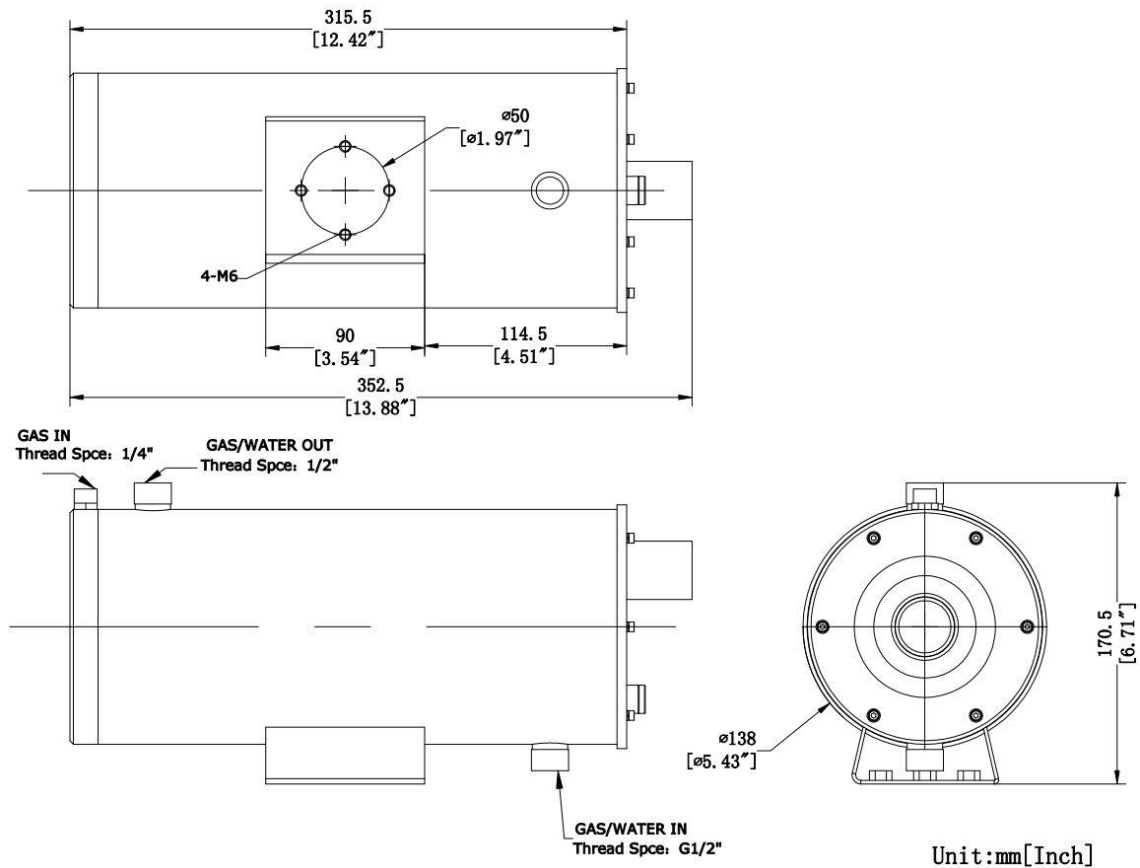
| Thermal Module | |
|-----------------------------|---|
| Image Sensor | Vanadium Oxide Uncooled Focal Plane Arrays |
| Resolution | 640 x 512 |
| Pixel Pitch | 17 μm |
| Spectral Range | 8 μm to 14 μm |
| NETD | $\leq 35 \text{ mK}$ (@25° C, F# = 1.0) |
| Focal Length | 15 mm |
| Focus Mode | Athermalized |
| 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 |
| 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



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.

