

HM-TD2037T-25/X Thermographic Network Box Camera



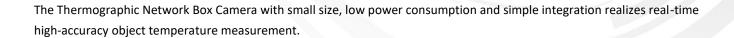












Key Feature

- 384 × 288 resolution, high sensitivity sensor
- Object temperature range: -20°C to 150°C (-4°F to 302°F), 0°C to 550°C (32°F to 1022°F); Max. (± 2°C, ± 2%)
- Temperature measurement at user-defined points, lines, and areas
- A highlighted cross at the max. temperature in the thermal image
- Thermal image frame rate: 50 fps
- Color alarm (isotherm) available for Above, Between, and Below object temperatures



Specification

Image Sensor Vanadium Oxide Uncooled Focal Plane Arrays Resolution 38 × 288 Pixel Pitch 17 μm Spectral Range 8 μm to 14 μm NETD < 35 mK (25°C, F# = 1.0)	Thermal Module	
Pixel Pitch 17 μm Spectral Range 8 μm to 14 μm NETD < 35 mk (25°C, F# = 1.0) Focal Length 25 mm Focal Length 25 mm Fled of View 14.8" × 11.2" (H × V) Min. Focusing Distance 5 m Aperture F1.0 Measurement and Analysis View Presentire Range Object Temperature Range -20°C to 150°C (-4"F to 302"F), 0°C to 550°C (32"F to 1022"F) Temperature Accuracy Max. (± 2°C, ± 2%) Measurement Presets Hot spot, cold spot in real time Point 10 User Presets Line 1 User Presets Area 7 User Presets Color Alarm (Isotherm) Above/Between/Below Thermographic Integration To Yuser Presets Thermographic Data Encoding 4 fps, 32-bit 384 × 288 per frame Thermographic Data Upload Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, ISAPI, and SDK Raw Data Upload Real-time full-screen YUV data via RTSP and SDK Video Compression H. 264/MJPEG Color Palettes 50 fps (384 × 288)	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Spectral Range 8 µm to 14 µm NETD < 35 mK (25°C, Fif = 1.0) Focal Length 25 mm IFOV 0.68 mrad Field of View 14.8" × 11.2" (H × V) Min. Focusing Distance 5 m Aperture F1.0 Measurement and Analysis Object Temperature Range -20°C to 150°C (-4"F to 302"F), 0°C to 550°C (32"F to 1022"F) Temperature Accuracy Max. (± 2°C, ± 2%) Measurement Presets Hot spot, cold spot in real time Point 10 User Presets Line 1 User Presets Area 7 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 [ps, 32-bit 384 × 288] per frame Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, iSAPI, and SDK Raw Data Upload Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, and SDK Video Compression H. 264/MIPEG Color Palettes 50 fps (384 × 288)	Resolution	384 × 288
NETD < 35 mK (25°C, F# = 1.0)	Pixel Pitch	17 μm
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IFOV 1.4.8" × 11.2" (H × V)	NETD	< 35 mK (25°C, F# = 1.0)
Field of View 14.8" × 11.2" (H × V) Min. Focusing Distance 5 m Aperture F1.0 Measurement and Analysis Object Temperature Range -20"C to 150"C (-4"F to 302"F), 0"C to 550"C (32"F to 1022"F) Temperature Accuracy Max. (± 2"C, ± 2%) Measurement Presets Hot spot, cold spot in real time Point 10 User Presets Line 1 User Presets Area 7 User Presets Color Alarm (Isotherm) Above/Between/Below Temperature Metadata Continuous output data of preset thermographic rules and measured temperature Thermographic Data Encoding 4 fps, 32-bit 384 × 288 per frame Raw Data Upload Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, isAP), and SDK Raw Data Upload Real-time full-screen YUV data via RTSP and SDK Video Compression 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 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 Network Network Network	Focal Length	25 mm
Min. Focusing Distance 5 m Aperture F1.0 Measurement and Analysis Object Temperature Range -20°C to 150°C (-4°F to 302°F), 0°C to 550°C (32°F to 1022°F) Temperature Accuracy Max. (± 2°C, ± 2%) Measurement Presets Hot spot, cold spot in real time Point 10 User Presets Line 1 User Presets Area 7 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 384 × 288 per frame Raw Data Upload Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, iSAPI, and SDK Raw Data Upload Real-time full-screen YUV data via RTSP and SDK Video Compression 15 Ofts (384 × 288) Video Compression 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 IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 3 channels User authen	IFOV	0.68 mrad
Aperture F1.0 Measurement and Analysis Object Temperature Range -20°C to 150°C (-4°F to 302°F), 0°C to 550°C (32°F to 1022°F) Temperature Accuracy Max. (± 2°C, ± 2%) Measurement Presets Hot spot, cold spot in real time Point 10 User Presets Line 1 User Presets Area 7 User Presets Color Alarm (Isotherm) Above/Between/Below Thermographic Integration Continuous output data of preset thermographic rules and measured temperature Temperature Metadata Continuous output data of preset thermographic rules and measured temperature Thermographic Data Encoding 4 fps, 32-bit 384 × 288 per frame Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, ISAPI, and SDK Raw Data Upload Real-time full-screen YUV data via RTSP and SDK Video and Image Video Analyse Wais Stream 50 fps (384 × 288) Video Compression H.264/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 IPV4/IPV6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPNP, SNMP, DNS, DDNS, NTP, RTSP	Field of View	14.8° × 11.2° (H × V)
Measurement and Analysis Object Temperature Range -20°C to 150°C (-4°F to 302°F), 0°C to 550°C (32°F to 1022°F) Temperature Accuracy Max. (± 2°C, ± 2%) Measurement Presets Hot spot, cold spot in real time Point 10 User Presets Line 1 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 384 × 288 per frame Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, ISAPI, and SDK Raw Data Upload Real-time full-screen YUV data via RTSP and SDK Video and Image Video Amaly Separation Main Stream 50 fps (384 × 288) Video Compression H.264/MJPEG Color Palettes 35 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, RTP, TCP, UDP, IGMP, IcMP, DHCP Simultaneous Live View </td <td>Min. Focusing Distance</td> <td>5 m</td>	Min. Focusing Distance	5 m
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Temperature Accuracy Max. (± 2°C, ± 2%) Measurement Presets Hot spot, cold spot in real time Point 10 User Presets Line 1 User Presets Area 7 User Presets Color Alam (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 384 × 288 per frame Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, ISAPI, and SDK Raw Data Upload Real-time full-screen YUV data via RTSP and SDK Video and Image Video Compression H.264/MJPEG Color Palettes 50 fps (384 × 288) 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, RTP, TCP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 3 channels User/Host level Up to 32 users, 3 levels: Administrator, Operator, User Security Security Security Security (ID and PW), HTTPS encryption, IEEE Security (ID and PW), HTTPS encryption, IEEE	Measurement and Analysis	
Measurement Presets Hot spot, cold spot in real time Point 10 User Presets Line 1 User Presets Area 7 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 384 × 288 per frame Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, ISAPI, and SDK Raw Data Upload Real-time full-screen YUV data via RTSP and SDK Video and Image Wideo Compression H.264/MIPEG Color Palettes 50 fps (384 × 288) Video Compression H.264/MIPEG 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, RTP, CCP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 32 users, 3 levels: Administrator, Operator, User User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MDS, EAP-TLS), access control, IP address filtering	Object Temperature Range	-20°C to 150°C (-4°F to 302°F), 0°C to 550°C (32°F to 1022°F)
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Main Stream 50 fps (384 × 288) Video Compression H.264/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, RTP, TCP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 3 channels User/Host level Up to 32 users, 3 levels: Administrator, Operator, User Security User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	Raw Data Upload	Real-time full-screen YUV data via RTSP and SDK
Video Compression H.264/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 IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 3 channels User/Host level Up to 32 users, 3 levels: Administrator, Operator, User Security User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	Video and Image	
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, RTP, TCP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 3 channels User/Host level Up to 32 users, 3 levels: Administrator, Operator, User Security User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	Main Stream	50 fps (384 × 288)
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, RTP, TCP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 3 channels User/Host level Up to 32 users, 3 levels: Administrator, Operator, User User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	Video Compression	H.264/MJPEG
Network Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 3 channels User/Host level Up to 32 users, 3 levels: Administrator, Operator, User User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	Color Palettes	15 options: White Hot, Black Hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2,
Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 3 channels User/Host level Up to 32 users, 3 levels: Administrator, Operator, User User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity		Speia, Color 1, Color 2, Ice Fire, Rain, Red Hot, Green Hot, Dark Blue
RTP, TCP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 3 channels User/Host level Up to 32 users, 3 levels: Administrator, Operator, User User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	Network	
User/Host level Up to 32 users, 3 levels: Administrator, Operator, User User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	Protocols	
Security User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	Simultaneous Live View	Up to 3 channels
802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	Security	User authentication (ID and PW), HTTPS encryption, IEEE
Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity		802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering
Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output 1, alarm output; NC, level quantity	Client	HIKMICRO Studio
Alarm Output 1, alarm output; NC, level quantity	Interface	
	Alarm Input	1, alarm input (0 to 3.3 VDC)
Analog Output 1, CVBS output	Alarm Output	1, alarm output; NC, level quantity
	Analog Output	1, CVBS output



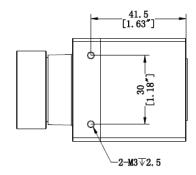
Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available)
General	
Menu Language	English
Power Supply	10 to 30 VDC, Max. 2.3 W
Working Temperature/Humidity	-20°C to 50°C (-4°F to 122°F)
	90% or less
Protection Level	IP40
Mount	M3
Weight	Approx. 140 g (0.33 lb)
Dimensions	74 mm × 45 mm × 45 mm (2.91" × 1.77" × 1.77")

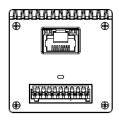
Available Model

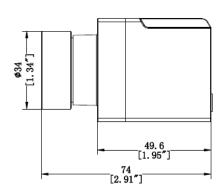
HM-TD2037T-25/X

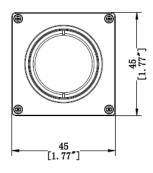


Dimension









Unit:mm[Inch]

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.



