

HM-TD2037T-15/X Thermographic Network Box Camera













The Thermographic Network Box Camera with small size, low power consumption and simple integration realizes real-time high-accuracy object temperature measurement.

Key Features

- 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 384 × 288 Pixel Pitch 17 μm Spectral Range 8 μm to 14 μm NETD < 35 mK (25°C, Fil = 1.0)	Thermal Module	
Pixel Pitch 17 μm Spectral Range 8 μm to 14 μm NETD < 35 mK (25°C, F# = 1.0)	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Spectral Range 8 µm to 14 µm NETD < 35 mk (25°C, F# = 1.0) Focal Length 15 mm IFOV 1.13 mrad Field of View 24.3° x 18.4° (H × V) Min. Focusing Distance 3 m Aperture F1.0 Measurement and Analysis Volume 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 demographic Data Encoding 4 fps, 32-bit 384 × 288 per frame Remographic 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 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,	Resolution	384 × 288
NETD < 35 mK (25°C, F# = 1.0)	Pixel Pitch	17 μm
Focal Length 15 mm 16 OV 1.13 mrad 17 mrad 1	Spectral Range	8 μm to 14 μm
IFOV	NETD	< 35 mK (25°C, F# = 1.0)
Field of View 24.3" × 18.4" (H × V) Min. Focusing Distance 3 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 Raccuracy 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 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 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 <	Focal Length	15 mm
Min. Focusing Distance 51.0 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 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, ISAP, and SDK 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 thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, ISAP, and SDK 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 IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, CUPP, UDP, IGMP, ICMP, DHCP Simultaneous Live View Up to 3 channels User JHost level Up to 3 channels User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MDS, EAP-TLS), access control, IP address filtering Client HIKMICRO Studio HikMICRO Studio HikMICRO Studio Laarm input (0 to 3.3 VDC) Alarm Input 1, alarm input (0 to 3.3 VDC)	IFOV	1.13 mrad
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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 Lline 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 Main Stream 50 fps (384 × 288) Video Compression H.264/MIPEG 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 32 users, 3 level	Min. Focusing Distance	3 m
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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 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 Simultaneous Live View Up to 3 channels User Johnst Ievel Up to 3 channels Security User authentication (ID and PW), HTTPS encryption, IEEE Security 302.1x (EAP-MDS, 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	Measurement Presets	Hot spot, cold spot in real time
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Video and ImageMain Stream50 fps (384 × 288)Video CompressionH.264/MJPEGColor Palettes15 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 BlueNetworkProtocolsIPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCPSimultaneous Live ViewUp to 3 channelsUser/Host levelUp to 32 users, 3 levels: Administrator, Operator, UserSecurityUser authentication (ID and PW), HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filteringClientHIKMICRO StudioInterfaceAlarm Input1, alarm input (0 to 3.3 VDC)Alarm Output1, alarm output; NC, level quantity		ISAPI, and SDK
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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	Video and Image	
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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	Cinquiltana a una Livra Vianu	
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		•
Security 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	· · · · · · · · · · · · · · · · · · ·
Interface Alarm Input	Security	
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



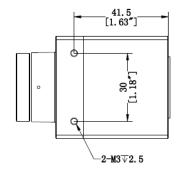
Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface
	1, RS-485 interface (ModBus available)
General	
Menu Language	English
Power Supply	10 to 30 VDC, Max. 2.3 W
Working Temperature/Humidity	-20°C to 50°C (-4°F to 122°F)
	90% or less
Protection Level	IP40
Mount	M3
Weight	Approx. 140 g (0.33 lb)
Dimensions	67 mm × 45 mm × 45 mm (2.64" × 1.77" × 1.77")

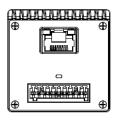
Available Model

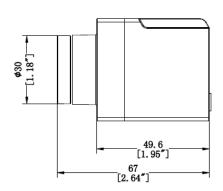
HM-TD2037T-15/X

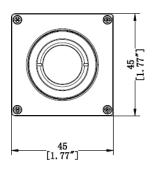


Dimension









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.



