

HM-TD2037T-4/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.

- 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



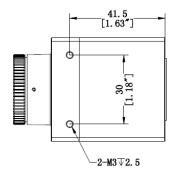
Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	384 × 288
Pixel Pitch	17 μm
Spectral Range	8 μm to 14 μm
NETD	< 35 mK (25 °C, F# = 1.0)
Focal Length	4.5 mm
IFOV	3.78 mrad
Field of View	90° × 65.2° (H x V)
Min. Focusing Distance	0.3 m
Aperture	F 1.0
Measurement and Analysis	
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
Thermographic Data Upload	Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP,
mermographic Data Opioau	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,
Color Palettes	Speia, Color 1, Color 2, Ice Fire, Rain, Red Hot, Green Hot, Dark Blue
Digital Zoom	2 ×, 4 ×
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,
Protocois	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
Simultaneous Live View	Up to 6 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	
	iVMS-4800
Interface	iVMS-4800
Interface Alarm Input	iVMS-4800 1, alarm input (0-3.3 VDC)

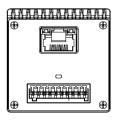


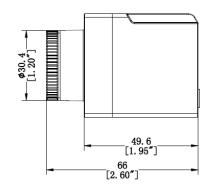
Analog Output	1, CVBS output
Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface
	1, RS-485 interface (ModBus available)
General	
Menu Language	English
Power Supply	10-30 VDC, Max. 2.3 W
Working Temperature/Humidity	- 20 °C to 50 °C (- 4 °F to 122 °F)
working remperature/frumuity	90% or less
Protection Level	IP40
Mount	M3
Weight	Approx. 140 g (0.31 lb)
Dimensions	67 mm × 45 mm × 45 mm (2.64" x 1.77" x 1.77")

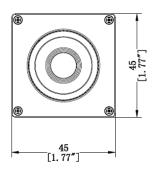
HM-TD2037T-4/X











Unit:mm[Inch]







HM-TD2037T-7/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.

- 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



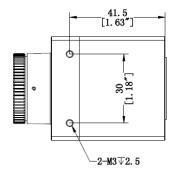
Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	384 × 288
Pixel Pitch	
	17 μm
Spectral Range	8 μm to 14 μm
NETD See all a meth	< 35 mK (25 °C, F# = 1.0)
Focal Length	6.5 mm
IFOV	2.62 mrad
Field of View	60° × 44.1° (H x V)
Min. Focusing Distance	0.6 m
Aperture	F 1.0
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
Thermographic Data Upload	Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 \times 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
	15 options: White Hot, Black Hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2,
Color Palettes	Speia, Color 1, Color 2, Ice Fire, Rain, Red Hot, Green Hot, Dark Blue
Digital Zoom	2 ×, 4 ×
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
Simultaneous Live View	Up to 6 channels
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
<u> </u>	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE
Security	802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering
Client	iVMS-4800
Interface	
Alarm Input	1, alarm input (0-3.3 VDC)
Alarm Output	1, alarm output; NC, level quantity
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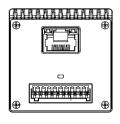


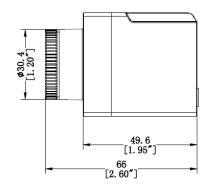
Analog Output	1, CVBS output
Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface
	1, RS-485 interface (ModBus available)
General	
Menu Language	English
Power Supply	10-30 VDC, Max. 2.3 W
Working Temperature/Humidity	- 20 °C to 50 °C (- 4 °F to 122 °F)
Working remperature/framulty	90% or less
Protection Level	IP40
Mount	M3
Weight	Approx. 140 g (0.31 lb)
Dimensions	67 mm × 45 mm × 45 mm (2.64" x 1.77" x 1.77")

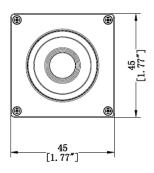
HM-TD2037T-7/X











Unit:mm[Inch]







HM-TD2037T-10/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.

- 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



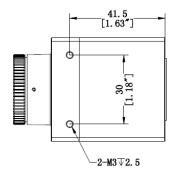
Specification	
Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	384 × 288
Pixel Pitch	17 μm
Spectral Range	8 μm to 14 μm
NETD	< 35 mK (25 °C, F# = 1.0)
Focal Length	9.7 mm
IFOV	1.75 mrad
Field of View	37.5° × 28.5° (H x V)
Min. Focusing Distance	1.5 m
Aperture	F 1.0
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
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 and Image	
Main Stream	50 fps (384 × 288)
Video Compression	H.264/MJPEG
	15 options: White Hot, Black Hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2,
Color Palettes	Speia, Color 1, Color 2, Ice Fire, Rain, Red Hot, Green Hot, Dark Blue
Digital Zoom	2 ×, 4 ×
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
Simultaneous Live View	Up to 6 channels
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE
Security	802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering
Client	iVMS-4800
Interface	
Alarm Input	1, alarm input (0-3.3 VDC)
	1, alarm input (0-3.3 VDC) 1, alarm output; NC, level quantity

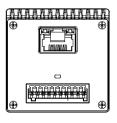


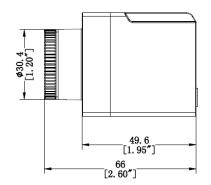
Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available)
General	
Menu Language	English
Power Supply	10-30 VDC, Max. 2.3 W
Working Temperature/Humidity	- 20 °C to 50 °C (- 4 °F to 122 °F)
Protection Level	90% or less
Mount	M3
Weight	Approx. 140 g (0.31 lb)
Dimensions	67 mm × 45 mm × 45 mm (2.64" x 1.77" x 1.77")

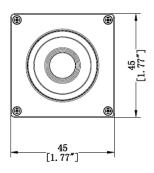
HM-TD2037T-10/X











Unit:mm[Inch]







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.

- 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
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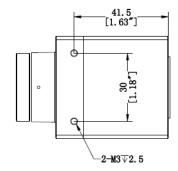
Image Sensor Vanadium Oxide Uncooled Focal Plane Arrays Resolution 38 × 288 Pixel Pitch 17 μm Spectral Range 8 μm to 14 μm NETD < 35 mK (25°C, F# = 1.0)	Thermal Module	
Pixel Pitch 17 μm Spectral Range 8 μm to 14 μm NETD < 35 mk (25°C, F# = 1.0) Focal Length 15 mm IFOV 1.13 mrad Fled of View 24.3° × 18.4° (H × V) Min. Focusing Distance 3 m Aperture F1.0 Measurement and Analysis View Presenting 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 Hos point 10 User Presets Hot spot, cold spot in real time Point 10 User Presets Lose Presets Line 1 User Presets Lose Presets Line 1 User Presets Lose Presets Lore Intermographic Integration Above/Between/Below Thermographic Integration Above/Between/Below 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 Rau Data Upload Real-time full-screen YUV data via RTSP and SDK Video Compression H. 264/MJ	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
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NETD < 35 mK (25°C, F# = 1.0)	Pixel Pitch	17 μm
Focal Length 15 mm 16 OV 1.13 mrad 17 mm 17 mm 18 mm 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 Volce Temperature 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 Area 7 User Presets Color Alarm (Isotherm) Above/Between/Below Thermographic Integration Above/Between/Below 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 tyUV data via RTSP and SDK Video Compression 15 O fps (384 × 288) Video Compression 15 O fps (384 × 288) Video Compression 15 O fps (394 × 288) Video Compression 15 O fps (394 × 288) Visteroic 15 O fps (394 × 288) Video Com	Focal Length	15 mm
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 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 Area 7 User Presets Area Above/Between/Below Thermographic Integration Above/Between/Below 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 thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, iSAPI, and SDK Raw Data Upload Real-time full-screen tyUV data via RTSP and SDK Video Compression 15 Of ps (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 Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, D	IFOV	1.13 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 Waistream 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 IPV4/IPV6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPPP, SMMP, DNS	Field of View	24.3° × 18.4° (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 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 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 authentication (ID and PW), HTTPS encryption, IEEE </td <td>Min. Focusing Distance</td> <td>3 m</td>	Min. Focusing Distance	3 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 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 302.1x (EAP-MDS, EAP-TLS), access control, IP address filtering Cli	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/MJPEG Color Palettes 50 fps (384 × 288) Video Compression H.264/MJPEG 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, CLP, 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)
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 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 Pryd/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 Security User authentication (ID and PW), HTTPS encryption, IEEE 802.1x (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	Temperature Accuracy	Max. (± 2°C, ± 2%)
Line1 User PresetsArea7 User PresetsColor Alarm (Isotherm)Above/Between/BelowThermographic IntegrationTemperature MetadataContinuous output data of preset thermographic rules and measured temperatureThermographic Data Encoding4 fps, 32-bit 384 × 288 per frameReal-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, ISAPI, and SDKRaw Data UploadReal-time full-screen YUV data via RTSP and SDKVideo 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 Authentication (ID and PW), HTTPS encryption, IEEESecurityUser authentication (ID and PW), HTTPS encryption, IEEESecurityUser authentication (ID and PW), HTTPS encryption, IEEESecurity4 HIKMICRO StudioInterfaceAlarm Input1, alarm input (0 to 3.3 VDC)Alarm Input1, alarm input (0 to 3.3 VDC)	Measurement Presets	Hot spot, cold spot in real time
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 tyUV data via RTSP and SDK Video and Image Main Stream 50 fps (384 × 288) Video Compression H.264/MJPEG 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-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	Point	10 User Presets
Color Alarm (Isotherm)Above/Between/BelowThermographic IntegrationTemperature MetadataContinuous output data of preset thermographic rules and measured temperatureThermographic Data Encoding4 fps, 32-bit 384 × 288 per frameThermographic Data UploadReal-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, ISAPI, and SDKRaw Data UploadReal-time full-screen YUV data via RTSP and SDKVideo 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	Line	1 User Presets
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 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	Area	7 User Presets
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 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	Color Alarm (Isotherm)	Above/Between/Below
Thermographic Data Encoding 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 and Image Main Stream So fps (384 × 288) Video Compression H.264/MJPEG Color Palettes 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 Client HIKMICRO Studio Interface Alarm Input 1, alarm input (0 to 3.3 VDC) Alarm Output Real-time full-screen Hermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP, iSAP-TNE, and instrict (16-bit or 32-bit 384 × 288) via RTSP, iSAP-TNE, and is a subject to a subject in the matrix (16-bit or 32-bit 384 × 288) via RTSP, is and instrict (16-bit or 32-bit 384 × 288) via RTSP, is and instrict (16-bit or 32-bit 384 × 288) via RTSP, is and instrict (16-bit or 32-bit 384 × 288) via RTSP, is and instrict (16-bit or 32-bit 384 × 288) via RTSP, is and instrict (16-bit or 32-bit 384 × 288) via RTSP, is and instrict (16-bit or 32-bit 384 × 288) via RTSP, is and instrict (16-bit or 32-bit 384 × 288) via RTSP, is and instrict (16-bit or 32-bit 384 × 288) Network Interface Alarm Input 1, alarm input (0 to 3.3 VDC)	Thermographic Integration	
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 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	Temperature Metadata	Continuous output data of preset thermographic rules and measured temperature
Thermographic 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 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	Thermographic Data Encoding	4 fps, 32-bit 384 × 288 per frame
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 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-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	The aware aware his Date Hules d	Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP,
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	Thermographic Data Opioad	ISAPI, and SDK
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 Polottos	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	Color Palettes	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	Conumity	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	Security	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

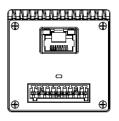


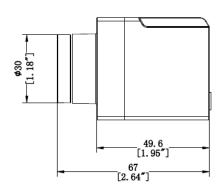
Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface
General	1, RS-485 interface (ModBus available)
General	
Menu Language	English
Power Supply	10 to 30 VDC, Max. 2.3 W
Working Temperature/Humidity	-20°C to 50°C (-4°F to 122°F)
	90% or less
Protection Level	IP40
Mount	M3
Weight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

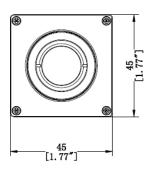
HM-TD2037T-15/X











Unit:mm[Inch]







HM-TD2037T-25/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.

- 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



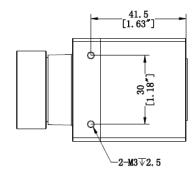
Thermal Module	
	Variations Original Union and Freed Plants America
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	384 × 288
Pixel Pitch	17 μm
Spectral Range	8 μm to 14 μm
NETD	< 35 mK (25°C, F# = 1.0)
Focal Length	25 mm
IFOV	0.68 mrad
Field of View	14.8° × 11.2° (H × V)
Min. Focusing 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 fps, 32-bit 384 × 288 per frame
The amount is Date Hales d	Real-time full-screen thermographic data matrix (16-bit or 32-bit 384 × 288) via RTSP,
Thermographic Data Upload	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
	15 options: White Hot, Black Hot, Fusion 1, Rainbow, Fusion 2, Ironbow 1, Ironbow 2,
Color Palettes	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,
Protocols	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
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
Analog Output	1, CVBS output
	,

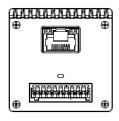


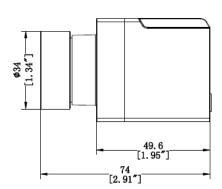
Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available)
General	
Menu Language	English
Power Supply	10 to 30 VDC, Max. 2.3 W
Working Temperature/Humidity	-20°C to 50°C (-4°F to 122°F)
working reinperature/riumidity	90% or less
Protection Level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

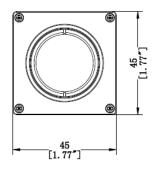
HM-TD2037T-25/X











Unit:mm[Inch]



