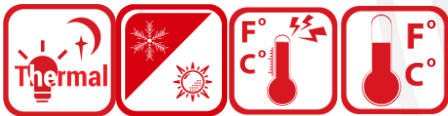




QD610

R&D Box Cameras with High Frame Rate



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

▪ Features

- High sensitivity sensor with 640 x 512 resolution
- Object temperature range: -20°C to 150°C (-4°F to 302°F), 0 °C to 650 °C (32°F to 1202 °F); Max (±2 °C, ±2%)
- Temperature measurement at user-defined points, lines, and areas
- Thermal image frame rate: 384×288: 100 fps, 640×512: 50 fps
- A highlighted cross at the max. temperature in the thermal image
- Color alarm (isotherm) available for Above, Between, and Below object temperatures
- Support mirroring, digital zoom(2x,4x,8x)

Specification

Thermal Module

Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	640 × 512
Pixel Pitch	17 μm
NETD	< 35 mK (25 °C, F# = 1.0)
Focal Length	QD610: 7 mm 15 mm 7 mm
Focus Mode	QD610: 7 mm: Athermalized 15 mm: Semi-auto & Manual Athermalized
IFOV	QD610: 7 mm: 2.4 mrad 15 mm: 1.1 mrad 2.4 mrad
Field of View	QD610: 7 mm: 640×512: 90.4°×75° 384×288: 55.8°×42.1° 15 mm: 640×512: 45°×36.1° 384×288: 26.8°×20.3° 640×512: 90.4°×75°×114° 384×288: 55.8°×42.1°×69°
Min. Focusing Distance	QD610: 7 mm: 0.5 m 15 mm: 0.15 m 0.5 m
Aperture	QD610: 7 mm: F 1.0 15 mm: F 1.0/F2.7 F 1.0

Measurement and Analysis

Object Temperature Range	QD610: 7 mm: Range -20°C~150°C Range 0°C~650 °C 15 mm: Range -20°C~150°C Range 0°C~650 °C Range 300°C~2000 °C Range -20°C~150°C Range 0°C~650 °C
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Temperature Accuracy	QD610:7 mm: Range -20~150°C: -20~100°C:±1°C 100~150°C:±1% Range 0~650°C 0~100°C:±2°C 100~650°C:±2% 15 mm: Range -20~150°C: -20~100°C:±1°C 100~150°C:±1% Range 0~650°C 0~100°C:±2°C 100~650°C:±2% Range 300~2000°C 300~2000°C:±2% Range -20~150°C: -20~100°C:±1°C 100~150°C:±1% Range 0~650°C 0~100°C:±2°C 100~650°C:±2%
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
Video and Image	
Main Stream	50 fps (640×512) 100fps (384×288)
Video Compression	H.265/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
Digital Zoom	×2, ×4, ×8
Radiometric Capture	Yes
Radiometric Infrared-Video Streaming (Compressed)	Over RJ45, 640 × 512@50 fps, 384 × 288@100 fps

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,Bonjour,SFTP,SRTP
Network Storage	NAS (NFS, SMB/CIFS)
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, Illegal Login, HDD Full, HDD Error, Network Disconnected
Client	HIKMICRO Analyzer
Interface	
Alarm Input	1, alarm input (0-3.3 VDC)
Alarm Output	1, alarm output; NC, External relay required
Alarm Action	Preset/patrol scan/alarm record/relay output/smart capture/FTP upload/email linkage
Analog Output	1, CVBS output
Communication Interface	1, RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available)
General	
Menu Language	English
Power Supply	12-24 VDC
Power Consumption	QD610:7 mm: 4.2W Max 15 mm: 6.4W Max 4.2W Max
Working Temperature/Humidity	-20 °C to 50 °C (-4 °F to 122 °F) 90% or less
Protection Level	IP42
Mount	M3
Weight	QD610:7 mm: Approx. 342g (0.75 lb.) 15 mm: Approx. 910g (2 lb.) Approx. 342g (0.75 lb.)
Dimensions	QD610:7 mm: 103.5mm × 50mm × 50 mm (4.06"× 1.97"× 1.97") 15 mm: 121.7mm × 74mm × 72mm (4.79"× 2.91"× 2.83") 103.5mm × 50mm × 50 mm (4.06"× 1.97"× 1.97")
Material	Aluminum alloy

▪ Available Model

HM-TD2D67E-7/Q

HM-TD2D67E-15/Q

Dimension

