CMIP793TD Series

Thermal Bullet Camera

Key Features

The Thermal Series cameras are able to capture imaging for the application of accurate temperature measurement for various industrial applications. The CMIP793TD Series offers high resolution thermal imager, AGC DDE, PoE, EIS, 3D DNR, NETD less than 40mk etc., to meet a wide variety of applications.

- VOUFPA Sensor (Vanadium Oxide Uncooled Focal Plane Arrays)
- 384 × 288 @ 25fps
- 17 µm Pixel interval
- Fixed Lens options*
- 1.13 mrad
- IP66
- F 1.0
- 8µm to 14µm Waveband
- Dynamic fire point detection,

Function Description

Fire Detection

- Dynamic fire point detection, up to 10 fire points detectable.
- Temerature range -20 °C to 550 °C (-4 °F to 1022 °F)
- Temperature accuracy ±2 °C / ±2%

Smart

- 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules.
- 3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line).

Image

- 384× 288@25fps
- Fixed Lens Optional
- Support H.265+/H.265/H.264/H.264+/MJPEG video compression, multi-level video quality configuration; support Baseline Profile/Main Profile/High Profile encoding complexity.
- Multiple OSD color: Black & white self-adaptive; Custom
- AGC,DDE, 3D DNR

System

- Support ONVIF (profile S/profile G/profile T), ISAPI protocol
- Support three streams, and support 20 channels live view at the same time
- Lightning protection, surge protection, voltage transient protection, anti-static protection

Interface

- Support standard 256 G microSD/SDHC/SDXC card storage
- Support 10M/100M Ethernet port
- Support Audio I/O
- Support Alarm I/O

Security

- Support three-level user authentication management, user and password authorization, and IP address filtering
- Support security certificate as HTTPS
- Lock user IP after certain times failed login attempts

Specifications

Thermal	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	384 × 288
Pixel Interval	17 µm
Response Waveband	8 µm to 14 µm
NETD	≤ 35 mk (25 °C, F# = 1.0)
Focal Length	15 mm
IFOV	1.13 mrad
Field of View	24.5° × 18.5° (H × V)
Min. Focusing Distance	2.5 m
Aperture	F 1.0
Digital Zoom	×2, ×4, ×8
Optical	
Image Sensor	1/2.7" Progressive Scan CMOS
Resolution	2688 × 1520
Min. Illumination	Color: 0.0089 Lux @ (F1.6, AGC ON), B/W: 0.0018 Lux @ (F1.6, AGC ON)
Shutter Speed	1 s to 1/100,000 s
Focal Length	6 mm
Field of View	51.7° × 28° (H × V)
Aperture (Range)	F 1.6
WDR	120 dB
Image Effect	
Bi-spectrum Image Fusion	Display the details of optical channel on thermal channel
Picture in Picture	Display partial image of thermal channel on the full screen of optical channel
Target Coloration	Yes. Supported in white hot and black hot mode.
Illuminator	
IR Distance	Up to 40 m
IR Intensity and Angle	Automatically adjusted
Smart Function	
VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total.
Temperature Measurement	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line).
Temperature Range	- 20 °C to 550 °C (- 4 °F to 1022 °F)
Temperature Accuracy	Max (± 2 °C, ±2 %)
Fire Detection	Dynamic fire detection, up to 10 fire points detectable.

Video and Audio	
Main Stream	Optical channel 50 HZ: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 HZ: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Thermal channel 25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240)

Sub-stream	Optical channel 50 HZ: 25 fps (704 × 576, 352 × 288, 176 × 144) 60 HZ: 30 fps (704 × 480, 352 × 240, 176 × 120) Thermal channel 25 fps (704 × 576, 352 × 288, 320 × 240)
Video Compression	Main Stream: H.265/H.264 Sub-Stream: H.265/H.264/MJPEG
Audio Compression	G.722.1/G.711ulaw/G.711alaw/MP2L2/G.726/AAC/PCM
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	ISAPI, HIKVISION SDK, third-party management platform, ONVIF (Profile S, Profile G, Profile T)
Security	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x (EAP-MD5, EAP-TLS), access control, IP address filtering
Simultaneous Live View	Up to 20 channels
Client	LTS-Connect
Web Browser	Live view (plug-in allowed) : Internet Explorer 11 Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 + Local service : Chrome 57.0 +, Firefox 52.0 +
Network Storage	MicroSD/SDHC/SDXC card (up to 256 G) local storage, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Interface	
Alarm Input	2-ch inputs (0-5 VDC)
Alarm Output	2-ch relay outputs, alarm response actions configurable
Alarm Action	SD recording/Relay output/Smart capture/FTP upload/Email linkage
Audio Input	1, 3.5 mm Mic in/Line in interface Line input: 2-2.4 V [p-p], output impedance: 1 KΩ ± 10%
Audio Output	Linear level, impedance: 600 Ω
Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface 1, RS-485 interface

General	
Web Client Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Power	24 VAC ± 25%, 12 VDC ± 25%, two-core terminal block PoE (802.3af, class 3)
Power Consumption	18 VAC to 30 VAC: 0.38 A to 0.22 A, max. 9 W 9 VDC to 15 VDC: 0.63 A to 1.06 A, max. 9 W PoE (802.3af, class 3): 44 V to 57 V, 0.22 A to 0.17 A, max. 9.5 W
Working Temperature/Humidity	Temperature: - 40 °C to 65 °C (- 40 °F to 149 °F) Humidity: 95% or less
Protection Level	IP66 Standard TVS 6000V lightning protection, surge protection, voltage transient protection
Dimensions	376.1 mm × 119.1 mm × 118.1 mm (14.81" × 4.68" × 4.65")
Weight	Approx. 1.82 kg (4.01 lb)

Thermal Detection Range Table

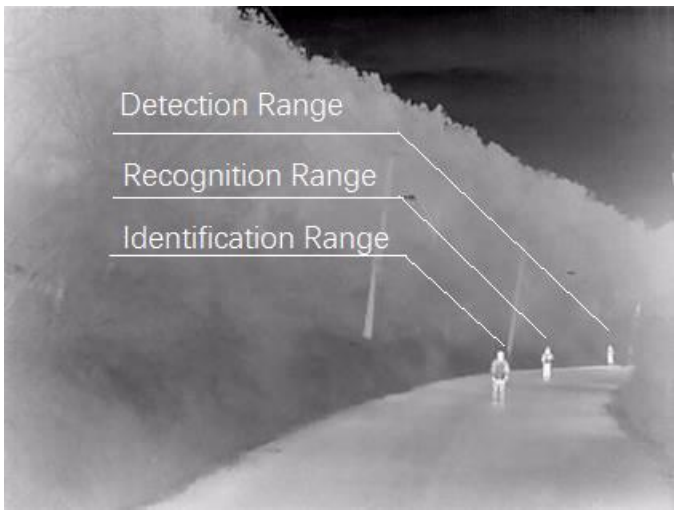
** This table is for reference and the performance may vary according to the installation environment.*

** The optimal human detection, recognition, and identification distances are calculated according to Johnson's Criteria.*

Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.

Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.



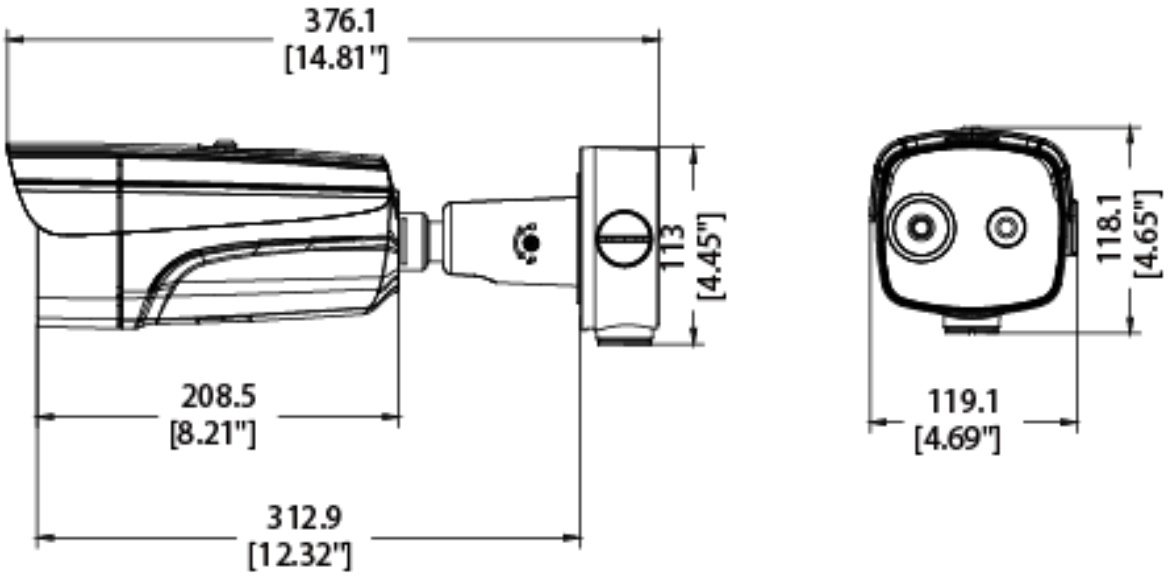
Detection Range (Vehicles: 1.4 × 4.0 m)	Detection Range (Humans: 1.8 × 0.5 m)	Recognition Range (Vehicles: 1.4 × 4.0 m)	Recognition Range (Humans: 1.8 × 0.5 m)	Identification Range (Vehicles: 1.4 × 4.0 m)	Identification Range (Humans: 1.8 × 0.5 m)
1353 m	441 m	338 m	110 m	169 m	55 m

Smart Function Table

- ** The table is only for reference and the performance may vary according to different environment.*

VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
309 m	110 m	351 m	177 m	882 m	441 m

Dimensions



Unit:mm[Inch]

LTB378

Vertical Pole Mount

LTB379

Corner Mount