

## DS-2TX3742-15P/Q Thermal Smart Linkage Tracking System



Hikvision DS-2TX3742-15P/Q Thermal Smart Linkage Tracking System formed by one bi-spectrum bullet camera offering panorama and one optical PTZ camera smartly tracking moving targets. Thermal smart linkage tracking system is popularly applied in infrastructure such as airports, prisons, railway, city streets, and campus, in which smart tracking and perimeter protection are needed.

### Key Feature

- 384 × 288 resolution thermal image, high sensitivity sensor, adjustable contrast
- Thermal image processing: Adaptive AGC, DDE, 3D DNR, NETD ≤ 35 mK (@25°C, F# = 1.0)
- PTZ camera with 4MP image, 42 × optical zoom and 500 m IR supplement
- Intelligent and persistent analytics working within the linkage system
- One-touch connection and automatic alignment between the images of bi-spectrum bullet camera and optical PTZ camera



## ▪ Specification

<b>System Function</b>	
Click Linkage	One-Touch connection between bi-spectrum bullet camera and PTZ camera beforehand via VMS client
Tracking Mode	Manual/Auto
Manual Tracking	Drawing an area in VMS client within the field of the bullet camera, leading the PTZ camera zooming in
Multi-targets Tracking	Up to 30 targets simultaneously
Event Tracking	Intrusion Detection, Line Crossing Detection
Tracking Duration	Configurable in VMS client for PTZ tracking
Temperature Measurement	3 temperature measurement rule types; 21 rules in total (10 points, 10 areas, and 1 line)
Temperature Range	-20°C to 150°C (-4°F to 302°F)
Temperature Accuracy	± 8°C (± 14.4°F)
Fire Detection	Dynamic fire detection, up to 10 fire points detectable.
<b>Bullet Camera-Thermal Module</b>	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	384 × 288
Pixel Pitch	17 μm
Spectral Range	8 μm to 14 μm
NETD (Noise Equivalent Temperature Difference)	≤ 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	2.5m
Aperture	F1.0
Digital Zoom	× 2, × 4, × 8
<b>Bullet Camera-Optical Module</b>	
Image Sensor	1/2.7" Progressive Scan CMOS
Resolution	2688 × 1520, 4 MP
Shutter Speed	1s to 1/100,000s
Min. Illumination	Color: 0.0089 Lux @(F1.6, AGC ON), B/W: 0.0018 Lux @(F1.6, AGC ON)
Focal Length	6 mm
Field of View	51.7° × 28° (H × V)
Aperture	F1.6
WDR	120 dB
<b>Bullet Camera-General</b>	
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.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/OPUS/PCM
Alarm Input	2, alarm input (0 to 5 VDC) 2, alarm output
Alarm Output	2-ch relay outputs, alarm response actions configurable
Audio Input	1, 3.5 mm Mic in/Line in interface. Line input: 2 to 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
<b>Optical Speed Dome</b>	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux @ (F1.5, AGC ON), B/W: 0.0002 Lux @ (F1.5, AGC ON), 0 Lux with IR
Resolution	2688 × 1520
Focal Length	6.0 to 252 mm, 42 × optical zoom
Zoom Speed	Approx. 4.8 s (Optical, Wide-Tele)
Digital Zoom	16 x
Field of View	58.7° to 2.0° (Wide-Tele)
Working Distance	100 mm to 1500 mm (Wide-Tele)
Aperture Range	F1.2 to F4.6
Shutter Speed	1 s to 30,000 s
WDR	140 dB
Image Enhancement	3D DNR, EIS, HLC/BLC, SVC
AGC	Auto/Manual
White Balance	Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Daylight Lamp/Sodium Lamp
Day & Night	IR cut filter
IR Supplement	Up to 500 m
Privacy Mask	24 programmable privacy masks
Optical Defog	Yes
Pan Speed	configurable from 0.1° to 210°/s; preset speed: 280°/s
Tilt Speed	configurable from 0.1° to 150°/s, preset speed 250°/s
Main Stream	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	60 Hz: 30 fps (704 × 480, 352 × 240, 176 × 120) 50 Hz: 25 fps (704 × 576, 352 × 288, 176 × 144)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 352 × 288, 176 × 144) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 352 × 240, 176 × 120)

Video Compression	Main Stream: H.265+/H.265/H.264+/H.264 Sub-Stream: H.265/H.264/MJPEG Third Stream: H.265/H.264/MJPEG
Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM
Alarm Action	Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email
Alarm Input	7, alarm input (0 to 5 VDC)
Alarm Output	2, alarm output
Audio Input	1, 3.5 mm Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1 K $\Omega$ $\pm$ 10%
Audio Output	Linear level, impedance: 600 $\Omega$
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface
<b>Network</b>	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, SSL/TLS, PPPoE
Network Storage	MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
API	ISAPI, HIKVISION SDK, open network video interface
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
Client	iVMS-4200, Hik-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 +
<b>General</b>	
Adjustment Range	Network Camera (Universal Joint Module): Pan: 90°, Tilt: -45° to 45° Speed Dome: Pan: 360°, Tilt: -20° to 90°, Auto Flip
Mount	Pole Mount
Menu 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 Supply	24 VAC $\pm$ 25%, one power supply for whole system
Power Consumption	Max. 70 W Speed Dome Consumption: Max. 60 W (If powered separately)
Working Temperature/Humidity	-40°C to 65°C (-40°F to 149°F); Humidity: 90% or Less
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimensions	401 mm $\times$ 266.4 mm $\times$ 912.2 mm (15.8" $\times$ 10.5" $\times$ 35.9")
Weight	12.9 kg (Approx. 28.4 lb)

## DRI Range Table

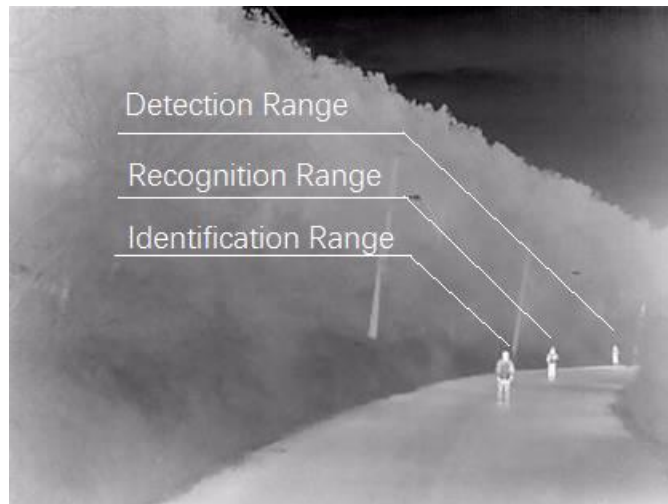
\* The table is only for reference and the performance may vary according to different environment.

\* The optimal 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

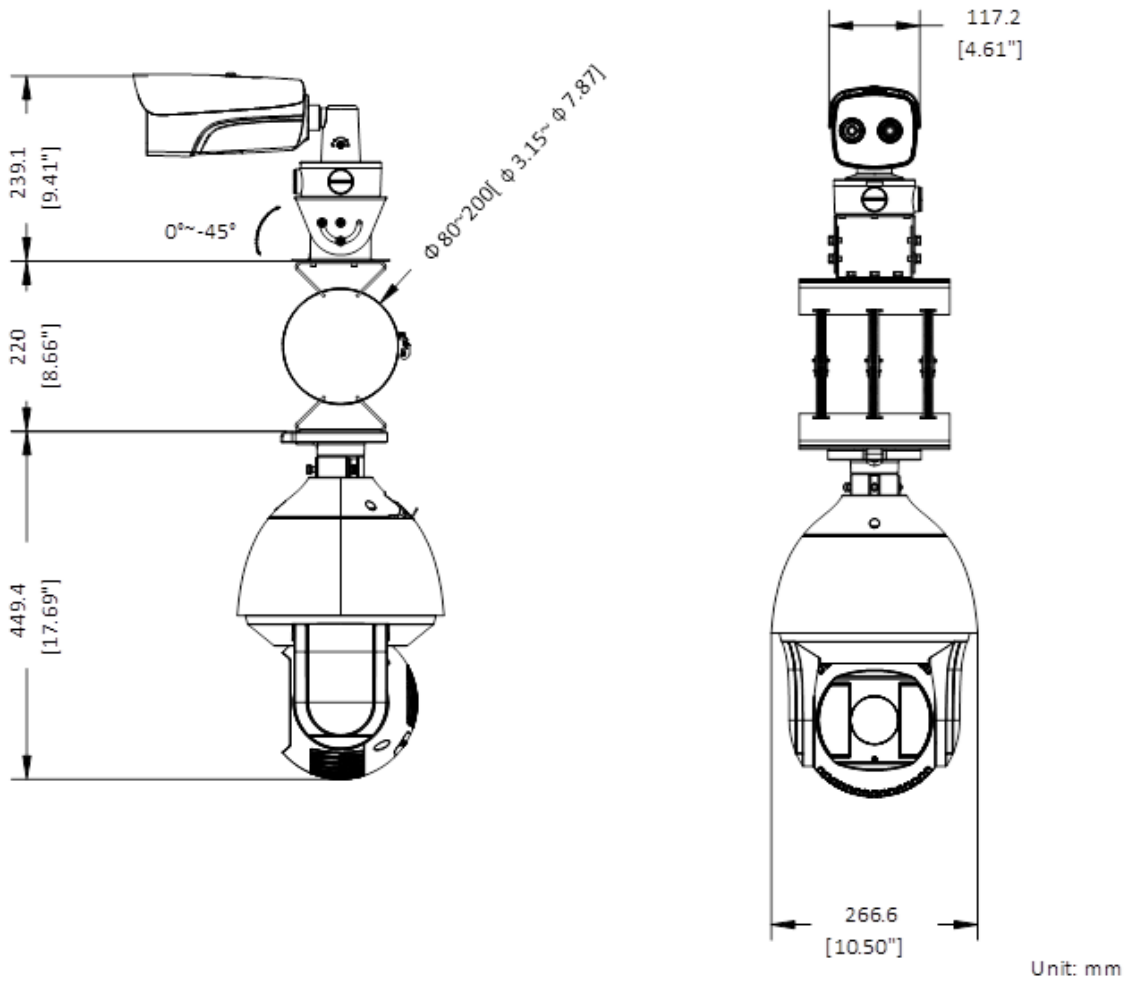
\* The table is only for reference and the performance may vary according to different environment.

VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 0.2 × 0.2 m)	Temperature Measurement (Object: 1 × 1 m)
315 m	105 m	35.2 m	176 m

### ▪ Available Model

DS-2TX3742-15P/Q

▪ **Dimension**



▪ **Accessory**

▪ **Optional**



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**HIKVISION®****Headquarters**

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
overseasbusiness@hikvision.com

**Hikvision USA**  
T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision Australia**  
T +61-2-8599-4233  
salesau@hikvision.com

**Hikvision India**  
T +91-22-28469900  
sales@pramahikvision.com

**Hikvision Canada**  
T +1-866-200-6690  
sales.canada@hikvision.com

**Hikvision Thailand**  
T +662-275-9949  
sales.thailand@hikvision.com

**Hikvision Europe**  
T +31-23-5542770  
sales.eu@hikvision.com

**Hikvision Italy**  
T +39-0438-6902  
info.it@hikvision.com

**Hikvision Brazil**  
T +55 11 3318-0050  
Latam.support@hikvision.com

**Hikvision Turkey**  
T +90 (216)521 7070- 7074  
sales.tr@hikvision.com

**Hikvision Malaysia**  
T +601-7652-2413  
sales.my@hikvision.com

**Hikvision UK & Ireland**  
T +01628-902140  
sales.uk@hikvision.com

**Hikvision South Africa**  
Tel: +27 (10) 0351172  
sale.africa@hikvision.com

**Hikvision France**  
T +33(0)1-85-330-450  
info.fr@hikvision.com

**Hikvision Kazakhstan**  
T +7-727-9730667  
nikia.panfilov@hikvision.ru

**Hikvision Vietnam**  
T +84-974270888  
sales.vt@hikvision.com

**Hikvision UAE**  
T +971-4-4432090  
salesme@hikvision.com

**Hikvision Singapore**  
T +65-6684-4718  
sg@hikvision.com

**Hikvision Spain**  
T +34-91-737-16-55  
info.es@hikvision.com

**Hikvision Tashkent**  
T +99-87-1238-9438  
uzb@hikvision.ru

**Hikvision Hong Kong**  
T +852-2151-1761  
info.hk@hikvision.com

**Hikvision Russia**  
T +7-495-669-67-99  
saleru@hikvision.com

**Hikvision Korea**  
T +82-(0)31-731-8817  
sales.korea@hikvision.com

**Hikvision Poland**  
T +48-22-460-01-50  
info.pl@hikvision.com

**Hikvision Indonesia**  
T +62-21-2933759  
Sales.Indonesia@hikvision.com

**Hikvision Colombia**  
sales.colombia@hikvision.com