

# DS-2TX3742-25A/Q Thermal Smart Linkage Tracking System



Hikvision DS-2TX3742-25A/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, campus, etc., in which smart tracking and perimeter protection are needed.

- 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

System Function					
Click Linkage	One-Touch connection between bi-spectrum bullet camera and PTZ camera				
Click Lillkage	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				
Wanda Hacking	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				
remperature ivicasarement	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	≤ 35 mk (@ 25 °C,F# = 1.0)				
Temperature Difference)	- 00 mm (C - 10 0), m = 10 )				
Focal Length	25 mm				
IFOV	0.68 mrad				
Field of View	14.9° × 11.2° (H × V)				
Min. Focusing Distance	13 m				
Aperture	F1.0				
Digital Zoom	×2, ×4, ×8				
Bullet Camera- Optical Module					
Image Sensor	1/2.7" Progressive Scan CMOS				
Resolution	2688 × 1520, 4 MP				
Shutter Speed	1 s to 1/100,000 s				
Min. Illumination	Color: 0.0089 Lux @(F1.6, AGC ON), B/W: 0.0018 Lux @(F1.6, AGC ON)				
Focal Length	12 mm				
Field of View	25.25° × 14.44° (H × V)				
Aperture	F1.6				
WDR	120 dB				
Bullet Camera- General					
	Optical channel				
	50 HZ: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
Main Stream	60 HZ: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
	Thermal channel				
	25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240)				



	Optical channel				
Sub-stream	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				
	2, alarm input (0-5 VDC)				
Alarm Input	2, alarm output				
Alarm Output	2-ch relay outputs, alarm response actions configurable				
	1, 3.5 mm Mic in/Line in interface.				
Audio Input	Line input: 2-2.4 V [p-p], output impedance: 1 K $\Omega$ ± 10%				
Audio Output	Linear level, impedance: $600 \Omega$				
	1, RJ45 10 M/100 M self-adaptive Ethernet interface.				
Communication Interface	1, RS-485 interface				
Optical Speed Dome					
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 - 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				
M/hita Dalamaa	Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Daylight				
White Balance	Lamp/Sodium Lamp				
Day & Night	IR cut filter				
IR Supplement	Up to 400 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)				



	Main Stream: H.265+/H.265/H.264+/H.264				
Video Compression	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,				
Adminaction	Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email				
Alarm Input	7, alarm input (0-5 VDC)				
Alarm Output	2, alarm output				
Audio Input	1, 3.5 mm Mic in/Line in interface.				
Addio Ilipat	Line input: 2-2.4 V [p-p], output impedance: 1 K $\Omega$ ± 10%				
Audio Output	Linear level, impedance: $600~\Omega$				
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface.				
Communication interface	1, RS-485 interface				
Network					
5	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,				
Protocols	RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, SSL/TLS, PPPoE				
	MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto				
Network Storage	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				
	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-4200, Hik-Connect				
	Live view (plug-in allowed) : Internet Explorer 11				
Web Browser	Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 +				
	Local service : Chrome 57.0 +, Firefox 52.0 +				
General					
	Network Camera (Universal Joint Module): Pan: 90°, Tilt: - 45° to 45°				
Adjustment Range	Speed Dome: Pan: 360°, Tilt: - 20° to 90°, Auto Flip				
Mount	Wall Mount				
	32 languages				
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak,				
Menu Language	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±25%,one power supply for whole system				
Dower Consumation	max. 70 W				
Power Consumption	Speed Dome Consumption: max.60W (If powered separately)				
Working Temperature/Humidity	- 40 °C to 65 °C (- 40 °F to 149 °F);				
	Humidity: 90% or less				
Dratastian Lavel	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient				
Protection Level	Protection				
Dimensions	266.4 mm ×721 mm × 576.6 mm (10.5" × 28.4" × 22.7")				
Weight	11.8 kg (Approx. 26.0 lb)				
	I .				



## Range Table

VCA Range (Vehicles: 1.4	VCA Range (Humans: 1.8	Temperature Measurement	Temperature Measurement	
× 4.0 m)	× 0.5 m)	(Object: 0.2 $ imes$ 0.2 m)	(Object: 1 $ imes$ 1 m)	
525m	175m	58.8m	294m	

#### - DORI

Detection Range: In order to distinguish an object from the background, the image must be covered by 1.5 or more pixels. Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the image must have at least 6 pixels across its critical dimension.

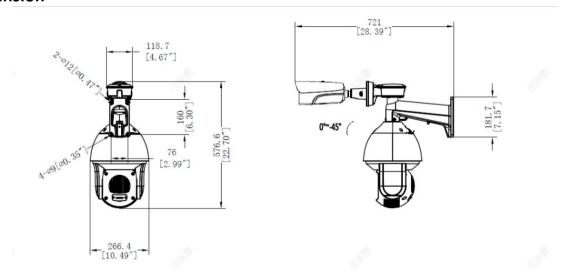
Identification Range: In order to identify the object and describe it in details, the critical dimension must have be least 12 pixels across

<b>Detection Range</b>	<b>Detection Range</b>	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4 $ imes$	(Humans: 1.8 $ imes$	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
4.0 m)	0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)	1.4 × 4.0 m)	1.8 × 0.5 m)
2255 m	735 m	564 m	184 m	282 m	92 m

#### Available Model

DS-2TX3742-25A/Q

### Dimension



<sup>\*</sup> The table is only for reference and the performance may vary from camera to camera.



- Accessory
- Optional



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.