



# NWTS-4PTZ62T2L

4MP Tri-Spectrum Optical, Thermal & Laser PTZ Camera



## Key Features:

- 1/1.8" Progressive Scan CMOS
- 62x Optical Zoom; 16x Digital Zoom
- 25fps/30fps @ 4MP(2592\*1520)
- 8mm ~ 500mm Motor Optical Lens
- 22.5mm ~ 105mm Motor Thermal Lens
- VOx uncooled focal plane @ 640x512 resolution // NETD  $\leq$  40mK
- 3000m Laser; 810nm Military Grade, GHT-III High Definition, no speckle
- Intelligent analysis: intrusion, single/double line crossing, loitering, wrong way, people counting, enter/leave area
- Operating temperature -40°C ~ 65°C
- Support 3 temperature measurement rule types (point, line, area)
- IP67 Weather rating // comes with Wiper to keep rain off

## Product Overview

Infinity Tri-Spectrum cameras bring together the best of thermal and visual worlds into a single unit. Combining industry-leading thermal technology and PTZ (pan and tilt and zoom) technologies together, you can securely secure any site in any condition thanks to its ability to withstand wind and freezing and its IP67 weatherproofing.

## Features

### Thermal and Video

Temperature analytics and 4MP PTZ with 62x zoom and 16x digital zoom; supporting 1520p at 25fps and offering a 2MP Thermal stream with full analytics for both sensor types.

### Environmental

With a temperature range of -40°C to +65°C the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

### Smart Encode (H.265+)

Deliver high quality video without straining the network, Smart Encode H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

### HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream, encoding quality, and the delay between algorithm complexity, optimize settings specific contents include: Improve compression efficiency, improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity.

# Technical Specification

Visual Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Effective Pixels	2592(H)×1520(V)
Electronic Shutter	1/5s ~ 1/20,000s
Min. illumination	Color:0.0005Lux@(F1.2,AGC ON) , B/W:0Lux@(IR LED ON)
Pan/Tilt Range	Pan: 0° ~ 360° endless, Tilt: +45° ~ -45°
Pan/Tilt Speed	Pan: 0.01° ~ 30°/s, Tilt: 0.01° ~ 15°/s
Preset & Tracking	3000 Presets // 16 Tracks/Patrols
Visual Lens	
Lens Type	Motor
Focal Length	8 ~500mm Motor Zoom
Optical Zoom	62x
Digital Zoom	16x
Focus Control	Auto/Manual
Functions	Mirror, Defog, Privacy Mask, 3D positioning, Radar Support
Wiper	Support
Video	
Compression and Resolution	H.265,H.265,MJPEG
Max. Resolution	1520P(2592×1520)
Streaming Capability	3 Streams
Main Stream / Frame Rate	<b>Optical:</b> 2592×1520, 1920×1080, 1280×720 @25/30fps <b>Thermal:</b> 640×512 @ 25/30fps
Sub Stream / Frame Rate	<b>Optical:</b> D1, VGA, 640×360, CIF, QVGA @25/30fps
Bit Rate Control	CBR/VBR
Image Enhancement	HLC / Defog / WDR
White Balance	Auto/Tungsten/Fluorescent/Daylight/Shadow/Manual
Features	AGC, WDR, Image Stabilizer, 2D/3D DNR
Electrical	
Power Supply and Consumption	24V DC // 180W Max
Operating Conditions	-40°C ~ 65°C // Less than 95% RH // IP67
Certifications	CE / FCC // Metal Casing
Net Weight	Circa 35Kg

Thermal Camera	
Lens	22.5 ~105mm Motor Zoom
Pixel Pitch and Range	8~14µm @ NETD ≤40mK
Image Setting	Brightness, Sharpness, Contrast, Mirror, FFC control, 2D/3D DNR
Palettes	Black-Heat / White-Heat / Rainbow / Iron-Red -> up to 16 modes
Network	
Protocols:	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP
Interoperability	ONVIF, CGI, SDK
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox, Safari, Edge
Thermal Detections	
Temperature Detection	3 temperature measurement rule types (point, line, area)
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy and Response Time	±2°C / ±2% @ < 3ms
Temperature Range	-20°C to 150°C (-4°F to 302°F) @ 75mm // -20°C to 550°C (-4°F to 1022°F) @ 100mm
Smart Functions	
Optical Smart Functions	Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm // Support human/vehicle detection and fire point detection
Thermal Smart Functions	Intrusion, line crossing, People counting Loitering, Wrong way, Enter/Leave area, (all functions support accurate detection of people/vehicles)
Thermal Capabilities	
View Angle, Aperture	H: 35°~ 28°, V: 1.8°~ 1.46°
Detection Distance (Fire: 1m x 1m)	Up to 6km
Detection Distance (Humans: 1.8m x 0.5m)	Up to 4km
Detection Distance (Vehicles: 2.3m x 2.3m)	Up to 10km
Identify Distance (Humans: 1.8m x 0.5m)	Up to 1km
Identify Distance (Vehicles: 2.3m x 2.3m)	Up to 3km
Laser	
Range	3000m
Wavelength	810nm (nanometers) Military Grade
Features	GHT-III High Definition super-uniform laser light, no speckle particles, uniform brightness greater than 92%

\*these detections are reliant on environmental conditions and target areas are outside of the established 'Johnson criteria' of thermal detection targets