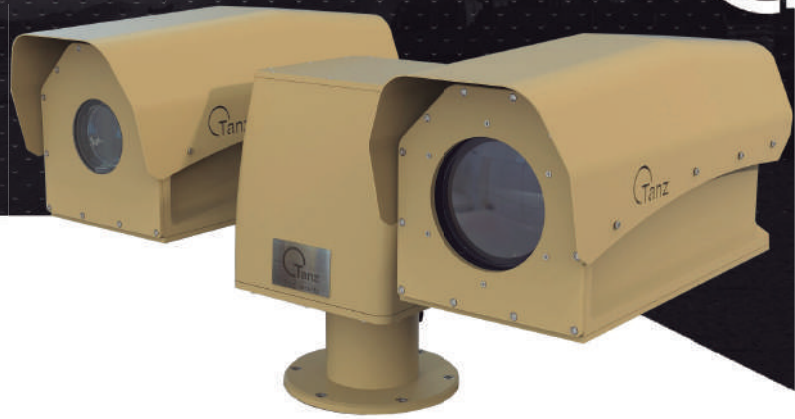


Day/Night Laser PTZ camera



THCH Laser PTZ Series

THCH series is an advanced long range PTZ security system. Mounted in a high precision worm gear pan/tilt unit, the special design of the positioning system has zero maintenance. All transmission gears are worm type ensuring a long lasting and high repeatability system.

THCH cameras are rugged and compact, ready to work in extreme weather conditions and including features like internal heaters and fan to keep the cameras and pan/tilt working in any weather condition. Designed to work in most extreme and harsh weather, in the perfect solution for sea ports, or critical infrastructure security, such as boarder control, airport security or power plants.

THCH camera series are designed to work in several scenarios and they are military proven. Including advanced day and night super low lux sensors and long range zoom lenses. Get the best image quality 24/7.

THCH Series include include several resolution cameras up to 4K and able to be paired with long range lenses and powerful synchronized zoom laser illuminators

The rugged IP66 housing and pan/tilt constructed of strengthened aluminum alloy with anti-corrosive coating, allows to THCH Series withstand the harshest climates and conditions, making it ideal for perimeter security, homeland security, coastal protection and border security.

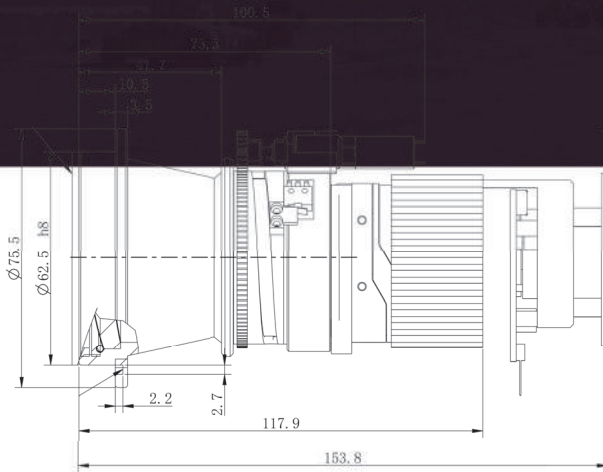
Key features:

- 2-8mp. resolution day/night zoom modules
- Up to 540mm. day/night optical zoom
- Advanced super low lux Starvis back illuminated CMOS
- Defogging
- EIS/OIS video stabilization for perfect image video stability
- On-board video analytics
- Laser illuminator with zoom/collimator up to 2000m.
- High precision stepper motors, accurate pan/tilt 0,01°
- Worm drive engine, long lasting drive system (no belt)
- HELIOS C2 compatible
- DC power
- IP66 waterproof and ruggedized aluminum housing
- Military connector
- Fan, heater
- Onvif 2.5 and Profile S



Specifications:

Model	THCH Series			
DAY/NIGHT CAMERA	Type	Dual sensor PTZ camera		
	Sensor	Starvis low lux back illuminated sensor		
	Sensor size	Depending in the lens selection		
	Min. illumination	From 0.001Lux / Depending in lens selection		
		Resolution	Zoom	Focal length
		2 megapixel	30X	4,7-141mm.
		2 megapixel	35X	6-210mm.
		2 megapixel	50X	6-300mm.
		2 megapixel	58X OIS	6-365mm.
		2 megapixel	90X	6-540mm.
		8 megapixel	3,5X	3,8-13,4mm.
		8 megapixel	50X	6-300mm.
	Video compression	H.265, H.264, Mjpeg		
	Streams	Triple stream		
	S/N.	≥55dB.		
	Bitrate	1,792-8,192Kbps., customizable up to 16,384 in MJPEG		
	Image settings	Contrast, Brightness, Mirror, Flip, sharpness, Enhancement, 3/2NR, AWB BLC, HLC, WDR		
	Day/Night	Day, night, auto		
	Frames/second	30fps.		
	Focus type	Auto, remote motorized		
	Defogging	Optical or digital, base in selection		
	Motion detection	Yes		
	ROI	Yes		
	EIS	Yes		
	OIS	Base in lens selection		
	Video output	Digital, analog optional		
	Video analysis	Tripwire, Cross fence, Intrusion, Abandoned-missing object, Fast moving, Parking detection, Crowd gathering estimation, Loitering Detection		
	Advanced Video analysis/ AI	Optional		
	Local storage	Up to 256Gb.		
	Web browser	IE8 or above, Chrome, Edge, Firefox		
	Pan/tilt movement	Pan 360° endless, Tilt -60/40°		
	Pan/tilt speed	0,01-60°/Sec. - 0,01-40°/Sec.		
	Accuracy	±0,01°		
	Presets	256		
	Tours	8		
	Auto scan / Auto pan	Yes		
	Patterns	5 (10min.)		
	Idle action	Yes		
	Start up	Yes		



Long range optical zoom modules

GENERAL

Protocols	Pelco D
Digital alarms	Motion detection, IVS
Alarm I/O	1/1
RS485	Yes
Audio	2 way (Optional)
Connector	Military type
Network	RJ45 Giga Ethernet
Network protocols	IPv4/v6, RTSP/RTP/RTCP, TCP/UDP, HTTP, HTTPS, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP V1/V2, IEEE802.X, Bonjour, IP filter, QoS, ICMP, IGMP, NTP
Fan/Heater	Yes
Platform	Onvif 2.5, Profile S
Environmental	-40°/65°C. / 0/95% RH not condensing
Gear	Worm gear, high repeatability
Power	24v.DC
Laser illuminator	500m. / 1000m. / 2000m.
Waterproof	IP66
Weight	15Kg. without cameras / Max. weight payload per side 10Kg.
Size	730x490x370mm.
Certifications	CE, RoHS compliant

- 30fps. high video
- Day/night back illuminated sensors
- Long range day/night lenses
- Built-in video analytics

- Built-in video stabilization
- Defogging
- Wide working temperature range
- Heavy duty PTU gears and engines

High Performance Video Compression

THCH Series include high performance video compression to help you to decrease the storage demand, including now several encoding options in H.265, H.264, Mjpeg and Mpeg4.

Visible/NIR Optical Camera

THCH Series are designed and optimized for long-range surveillance. Using large size progressive scan CMOS sensors to capture more light and perform better in low lux scenarios, able to perform perfectly under 0,001 Lux.

THCH also integrates the latest technology in real-time image processing such as BLC, HLC, WDR, EIS, 2/3DNR.

Full HD Images

THCH PTZ cameras are best in class providing high definition image in your surveillance applications, now they deliver up to 4 times higher definition than traditional HD sensor cameras. Select sensors from 2mp. to 8mp. to achieve best image quality in day or night video.

Long Range Day/Night Zoom Lenses

Select from available lens options, all Tanz Security advanced zoom lenses include several zoom motor speeds and available zoom options in 30X, 35X, 50X, 86X, 90X providing narrow FOV small as 0,44°.



Long Distance Laser Illuminator

Powerful long distance laser illuminator including synchronized zoom/collimator lens to provide paired light HFOV at all distances.

Available distances: 500m. / 1000m. / 2000m.





Long Range Zoom Lenses

High flexibility lens for long distance surveillance applications such as border control or coastal surveillance applications. Capable to provide wide angle HFOV with 25mm. and very long distances and close HFOV with 850mm. narrow angle, including high speed autofocus and remote/motorized focusing.

Advanced Video Analysis and AI

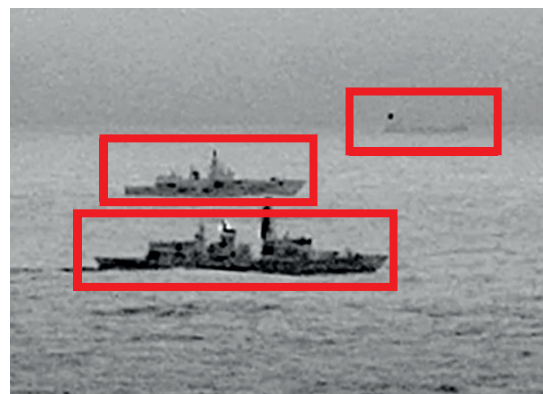
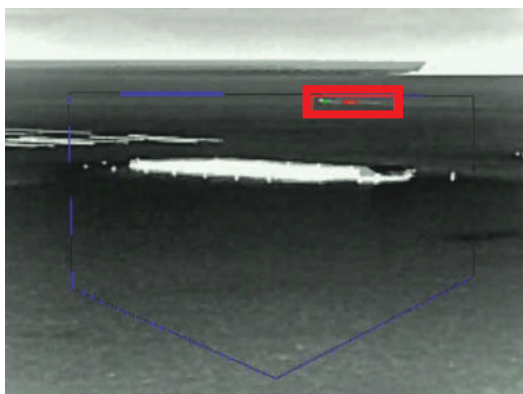
Advanced video analytics are designed to protect critical facilities, large protected areas, border control or military facilities from possible threats. Tanz Security video analytics are advanced algorithms capable to detect intrusions in very long distances and with very low false alarms.

Avoid false alarms caused by white-listed objects into a controlled scenario. Tanz video analytics are able to determine and follow complex rules to avoid the usual analytics false alarms.

Tanz analytics are dedicated to specific type of video images. Differentiating color video and thermal video differences with specific algorithms for each type. This provides Tanz analytics a superior performance.

Thanks to the advance design of the software, we can protect areas located in far distances, and once a threat is detected make slew to cue tracking of the moving object.

The advanced analytics can implement AI (Artificial Intelligence) to classify and detect military vehicles, vessels and other specific targets. The system includes a deep learning engine to teach the system tailored object detection.



Coastal and Ground Radars Ready

Tanz Security multisensors are ready to be used with omnidirectional and directional radars for multiple applications, designed for coastal security, border control and other critical facility installations and for very long distances and covering very large areas.



Visible/NIR Optical Camera

TCID8 Series are designed and optimized for long-range surveillance. Using large size progressive scan CMOS sensors to capture more light and perform better in low lux scenarios, able to perform perfectly under 0,001 Lux. Including the latest technology in real-time image processing such as BLC, HLC, WDR, EIS, 2-3D DNR.

EIS and OIS optics

Select from available lens options, all Tanz Security advanced zoom lenses include several zoom motor speeds and moving object tracking, available zoom options in 30X, 35X, 50X, x86, 90X providing narrow FOV as small as 0,3°.

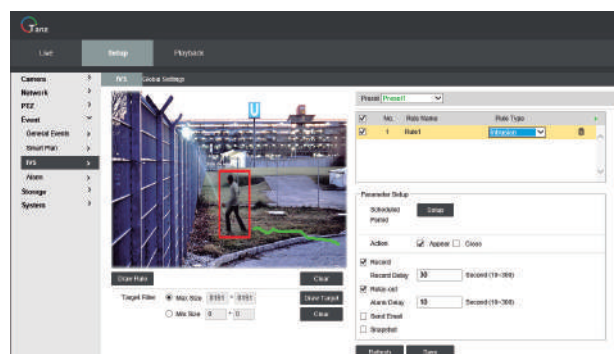
Select optical defogging providing 60fps. video or digital defogging to get rich details in long distance zoom lenses.

Video Analysis

TCID8 Series include advanced video analysis and digital video stabilization taking security cameras to a next level.

Tanz Security cameras are now including advanced video analytics to make the cameras smartest than ever, set the cameras to help in different risk auto-detection:

- Tripwire
- Fence detection
- Intrusion
- Abandoned-Missing object
- Fast moving
- Parking detection
- Crowd gathering estimation
- Loitering detection.



Day and Night - DORI Distances

Human target 1,8x0,5m.	DORI distances for 210mm.
Detection	2.315m.
Observation	918m.
Recognition	463m.
Identification	231m.

Human target 1,8x0,5m.	DORI distances for 300mm.
Detection	3.384m.
Observation	1.343m.
Recognition	677m.
Identification	338m.

Human target 1,8x0,5m.	DORI distances for 365mm.
Detection	3.666m.
Observation	1.455m.
Recognition	733m.
Identification	366m.

Human target 1,8x0,5m.	DORI distances for 540mm.
Detection	4.889m.
Observation	1.940m.
Recognition	977m.
Identification	488m.

* Different weather conditions may affect to final distances, the stated distances are references.

* AI/Deep learning/Object classification and advanced features with HELIOS C2

* Tanz Security reserves the right to change products or specifications without notice.

* Tanz Security brand and logo are registered trade marks.



NATO/OTAN NCAGE: SHCT4



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