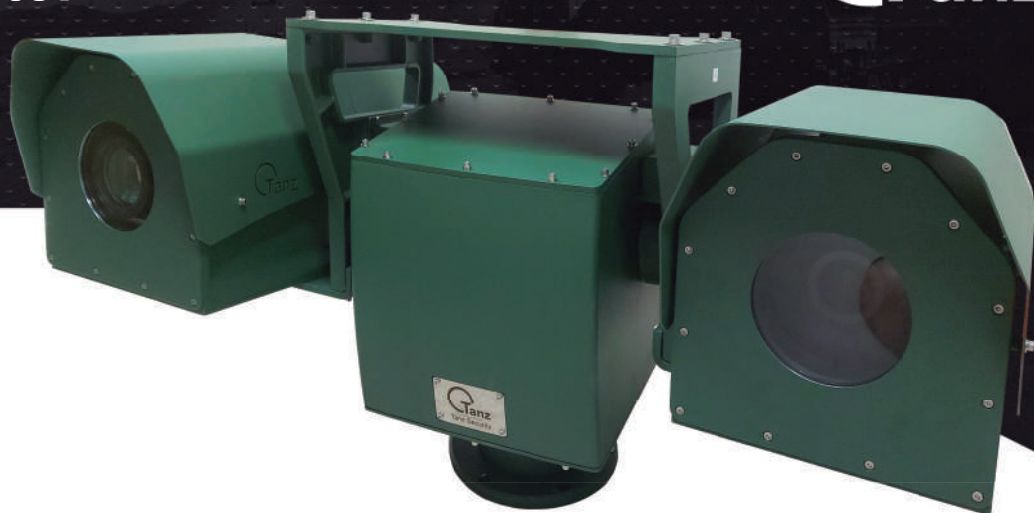


Long-range day/night PTZ camera with laser illuminator



THCB Laser PTZ Series

THCB Laser PTZ systems are designed for long-range applications. No matter the weather and application THCB PT units can reach large distances and provide best image quality in multiple applications such as border control, coastal surveillance or any other application where the target is far located.

THCB Laser PTZ series can be paired with multiple long-range lenses up to 1200mm. and with resolutions between 2 to 8mp. resolution. Having great advantages such as near infrared video, optical defogging or even optical video stabilization and heat/turbulence mitigation filter.

High performance imagers for true 24/7 work duty. Unparalleled performance resulting in accurate detection, recognition and identification of intruders and threats.

Extreme PT performance and long distance laser illuminators THCB includes a heavy duty high precision and high repeatability pan/tilt unit. All worm gears (no transmission belt) powered by Japanese made motors to ensure best performance and low maintenance, and super long distance laser illuminator with collimator and zoom, the long-life laser illuminator provides the perfect support for long distance night vision in surveillance applications.

Key features:

- High Definition sensors up to 1200mm. optical zoom
- Starvis super low lux sensor
- 30fps. optical high performance defogging lenses
- EIS/OIS video stabilization for perfect image video stability
- Turbulence mitigation filter
- On-board video analytics
- Long range laser illuminator with collimator/zoom
- High precision motor technology, accurate pan/tilt 0,01°
- Worm drive engine with long lasting / high repeatability system
- High speed azimuth with -90/90° elevation
- 48v. DC power
- IP66 waterproof housing
- HELIOS C2 compatible
- High / Low temperature ready
- Heater, fan
- Military connectors
- Onvif 2.5 and Profile S



Specifications:

Model	THCB Series			
DAY/NIGHT CAMERA	Type	Single sensor day/night PTZ camera with laser illuminator		
	Sensor	Low lux CMOS sensor, base in module selection		
		Resolution	Zoom	Focal length
		2 megapixel	80X	15-1200mm.
		2 megapixel	57X OIS	15-850mm.
		4 megapixel	88X	10.5-920mm.
		4 megapixel	52X OIS	15-775mm.
		8 megapixel	88X	11.3-1000mm.
				HFOV
				21-0.26°
				29.1-0.5°
				40.7-0.49°
				29.1-0.57°
				37.5-0.44°
	Video compression	H.265, H.264, Mjpeg / Optional HDSOI, HDMI, CBVS		
	Streams	Triple stream		
	Frames/second	25/30fps.		
	Bitrate	2048-8,192Kbps., VBR/CBR, up to 16.384Kbps in Mjpeg		
	Defogging	Optical or digital, base in selection		
	EIS	Yes		
	Day/Night	Day, night, auto		
	Digital zoom	16x		
	Shutter speed	Auto shutter and manual shutter (1/3-1/30000")		
	Focus type	Autofocus, remote motorized		
	S/N. ratio	>55dB. (AGC off)		
	Min. focus distance	5m.		
	Image settings	Contrast, Brightness, Mirror, Flip, sharpness, Enhancement, 2/3DNR, AWB, BLC, HLC, WDR		
	Advanced IVS/AI	Optional		
	Video analysis	Tripwire, Cross fence, Intrusion, Abandoned-missing object, Fast moving, Parking detection, Crowd gathering estimation, Loitering Detection		
	Local storage	Up to 256Gb.		
	Web browser	IE8 or above, Chrome, Edge, Firefox		
	Pan/tilt movement	Pan 360° endless, tilt -90/90°		
	Pan/tilt speed	0,01°-80°/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		
	Protocols	Pelco D		
	Digital alarms	Motion detection, IVS alarms, memory full		
	Alarm I/O	1/1		
	RS485	Yes		
	Audio	2 way (Optional)		



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 225mm. narrow angle, including high speed autofocus and remote/motorized focusing.

Advanced Video Analysis and AI

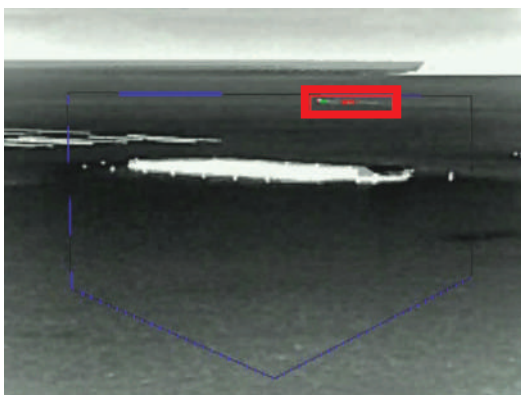
Advanced video analytics are designed to protect critical facilities, large protected areas, border control or military facilities from possible threats. Tanz Security video analytics are advanced algorithms capable to detect intrusions in very long distances and with very low false alarms.

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°.

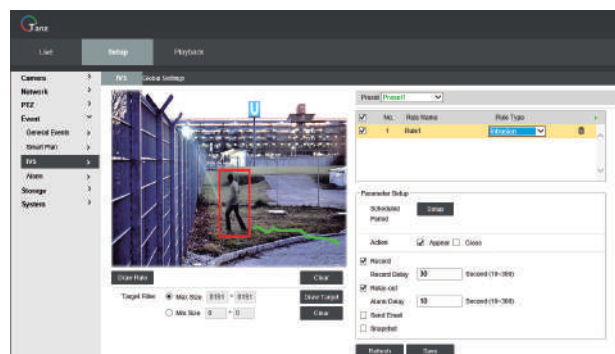
Select optical defogging providing 60fps. video or digital defogging to get rich details in long distance zoom lenses.

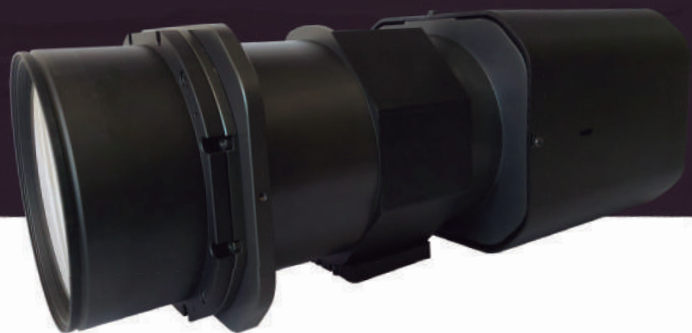
Video Analysis

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

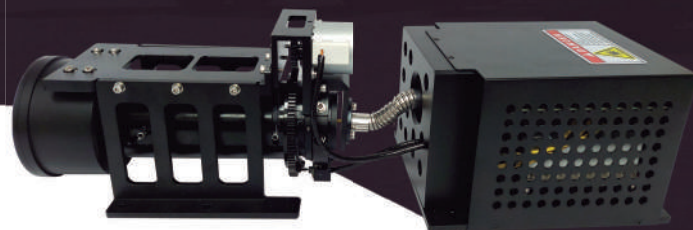
Tanz Security cameras are now including advanced video analytics to make the cameras smartest than ever, set the cameras to help in different risk auto-detection:

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





Super low lux / Long range DN zoom modules



Long range laser modules

GENERAL	Laser power	Fiber Coupling EEL 20W.	Fiber Coupling EEL 45W.
	Laser wavelength	808nm.	
	Laser distance	3000m.	5000m.
	Zoom/collimator	Yes	
	Eye safe	No	
	Class	IV	
	Connector	Military type	
	Network	RJ45 1x Giga Ethernet	
	Network protocols	IPv4/v6, RTSP/RTP/RTCP, TCP/UDP, HTTP, HTTPS, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP V1/V2, IEEE802.X, IP filter, QoS, ICMP, IGMP, NTP	
	Fan/Heater	Yes	
	Platform	Onvif 2.5, Profile S	
	Environmental	-40°/65°C. / 0-95% RH not condensing	
	Defrosters	Yes, in housings and pan/tilt body	
	Power	48v.DC (43-53v.DC)	
	Humidity control cell	Yes, in housings	
	Waterproof	IP66	
	Weight	50Kg. approx. (depending in configuration)	
	Size	800x535x520mm.	
	Options	Marine coating, laser range finder, DMC	
	Certifications	CE, RoHS compliant	

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

* Check lenses, sensors and options to define TCIDH proper configuration

* 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.

Day and Night - DORI Distances

Human target 1,8x0,5m.	DORI distances for 1200mm.	
Detection	16.924m.	
Observation	6.716m.	
Recognition	3.385m.	
Identification	1.692m.	

Human target 1,8x0,5m.	DORI distances for 1000mm.	
Detection	22.001m.	
Observation	7.937m.	
Recognition	4.000m.	
Identification	2.000m.	



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