

TCID8 series PTZ is a dual-sensor system including a powerful thermal and HD day/night zoom camera. High performance imagers for true 24/7 work duty. Integrating two sensors provides unparalleled performance resulting in accurate detection, recognition and identification of intruders and threats.

Integrated into an IP66 housing constructed of anti-corrosive aluminum alloy and high performance pan/tilt system. TCID8 includes internal heater/blower, this allows TCID8 series to withstand the harshest climates and making it ideal military and critical security applications, homeland defense, and coastal security.

Extreme Long Range Detection

TCID8 includes advanced Long-Wave Infrared (LWIR) HD thermal sensors in 640x512 or 1280x1024 capable of detecting vehicles at over 30km. distance and humans at over 15Km. distance.

Extreme PT performance

TCID8 includes a heavy duty high precision and high repeatibility pan/tilt unit. All worm gears (no transmission belt)

and to ensure best performance and low maintenance.

Key features:

- HD Thermal resolution in 640x512 or 1280x1024 pixels
- High performance NETD thermal Vox sensors with 12µm. pixel
- Long range zoom or fixed thermal lens up to 225mm.
- 2mp. 8mp. day/night cameras, up to 1200mm. zoom lens
- Starvis super low lux sensor
- 30/60fps. video
- EIS/OIS video stabilization for perfect image video stability
- On-board or advanced video analytics
- High precission motor technology, accurate pan/tilt 0,001°
- Worm drive engine with long lasting / high repeatability
- High speed azimuth with -90/90° elevation
- 48v. DC power
- IP66 waterproof housing
- High / Low temperature ready
- HELIOS C2 compatible
- Heater, fan
- Military connectors
- Onvif 2.5 and Profile S















Worm gear









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Specifications:

Model	TCID8 Series						
	Туре	Dual sensor PTZ camera					
	Sensor	LWIR, uncooled Vox micro-bolometer					
	Wavelength	8-14µm.					
	NETD	<40mK@f/1,0 50Hz., 300K					
	Pixel pitch	12μm.					
	Resolutions	640x512 / 1280x1024					
	Display resolution	Up to 1280x1024 or 1920x1080					
	Color palette	10 colors					
	Image enhancement	Yes					
THEDAMAL	Frames/second	25fps.					
THERMAL	Focal length	Up to 225mm.					
CAMERA	F. number	From f.1 depending in the lens					
	HFOV	Up to 1° depending in the lens/resolution					
	Focus	Autofocus, motorized remote focus					
	Video compression	H.265, H.264, Mjpeg					
	Streams	Triple stream					
	Bitrate	256-6144Kbps. / 1536-7424Kbps. , VBR/CBR					
	Image settings	Contrast, Brightness, Mirror, Flip, sharpness, Image Enhancement, NR 2/3D					
	Analogue video	Optional					
	Motion detection/ROI	Yes					
	Advanced video analysis						
	Fire detection	Yes Low lux CMOS sensor, base in module selection					
	Sensor	Resolution	Zoom	Focal length	HFOV		
		2 megapixel	35X	6-210mm.	61,9°-1,9°		
		2 megapixel	50X	6-300mm.	58,4°-1,4°		
		2 megapixel	90X	6-540mm.	59°-0,8°		
		2 megapixel	57X OIS	15-850mm.	29,1°-0,5°		
		2 megapixel	80X	15-1200mm.	23°-0,3°		
DAY/NIGHT		5 megapixel	30X	6-180mm.	61°-2,3°		
CAMERA		8 megapixel	50X	6-300mm.	65,2°-1,4°		
		8 megapixel	88X	11,3-1000mm.	37,5°-0,44°		
	Video compression	H.265, H.264, Mjpeg					
	Streams	Triple stream					
	Bitrate	1024-8,384Kbps., VBR/CBR					
	Image settings	Contrast, Brightness, Mirror, Flip, sharpness, Enhancement, 2/3DNR,					
	3	AWB, BLC, HLC, WDR, Near Infrared					
	Day/Night	Day, night, auto					
	Frames/second	30fps. / 60fps.					
	Focus type	Autofocus, remote motorized					
	Defogging	Optical or digital, base in selection					

Long range thermal modules

	Video output	Digital		
DAY/NIGHT CAMERA	Video analysis (D/N)	Tripwire, Cross fence, Intrusion, Abandoned-missing object, Fast movi		
	· ·	Parking detection, Crowd gathering estimation, Loitering Detection		
	EIS	In D/N camera		
	Local storage	Up to 256Gb. for each camera		
GENERAL	Web browser	IE8 or above, Chrome, Edge, Firefox		
	Pan/tilt movement	Pan 360° endless, tilt -90/90°		
	Pan/tilt speed	0,001- 100° /Sec 0,001-60°/Sec.		
	Accuracy	±0,006°		
	Presets	256		
	Tours	8		
	Auto scan / Auto pan	Yes		
	Patterns	5 (10min.)		
	Groups	4		
	Idle action / Start up	Yes		
	Protocols	Pelco D		
	Digital alarms	Motion detection, IVS alarms, memory full		
	Alarm I/O	D/N 1/1 - IR 1/1		
	RS485	Yes		
	Serial baudrate	2400-115200Kbps.		
	Audio	2 way (Optional)		
	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, Bonjour, IP filter, QoS, ICMP, IGMP, NTP		
	Fan/Heater	Yes		
	Platform	Onvif 2.5, Profile S		
	Envirnonmental	-40°/65°C 0/95% RH not condensing		
	Power	48v.DC (43-53v.)		
Electric protection		Protective circuit for surge and noise		
	Waterproof	IP66		
	Weight	40Kg. without cameras / Max. payload per side 20Kg.		
	Size	800x535x520mm.		
	Options	LRF, DMC, GPS, encoder, marine coating		



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 scernarios, 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°.

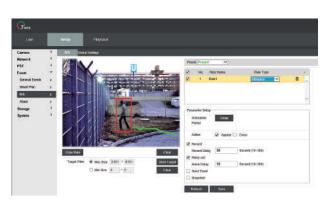
Select optical defogging providing 60fps. video or digital defogging to get rich details in long distance zoom lenses.

Video Analysis

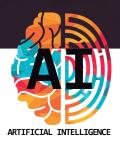
TCID8 Series include advanced video analysis and digital video stabilization taking security cameras to a next level.

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.







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 Al

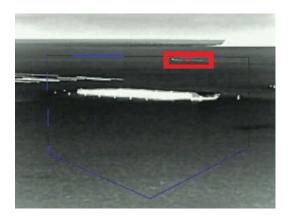
Advanced video analytics are designed to protect critical facilities, large protected areas, border control or military facilities from possible threats. Tanz Security video analytics are advanced algorithms capable to detect intrusions in very long distances and with very low false alarms.

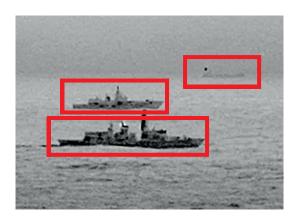
Avoid false alarms caused by white-listed objects into a controlled scenario. Tanz video analytics are able to determine and follow complex rules to avoid the usual analytics false alarms.

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.







Thermal - DRI Distances

Human target 1,8x0,5m.	Johnson's criteria - NATO standard - 225mm. focal length			
Detection		9.375m.		
Recognition		2.344m.		
Identification	1.172m.			

Vehicle target 2,3x2,3m.	Johnson's criteria - NATO standard - 225mm. focal length	
Detection		19.167m.
Recognition	4.792m.	
Identification	2.396m.	

Day and Night - DORI Distances

Human target 1,8x0,5m. DORI distances for 1200mm.					
Detection					20.000m.
Observation				7.937m.	
Recognition			4.000m.		
Identification		2.000m.			

- * Different weather conditions and temperature changes may affect to final distances, the stated distances are references.
- * GE window, fire detection/analytics, GPS, DMC, LRF, encoders and laser illuminators are optional.

 * Johnson's Criteria / Thermal Imager- 2º temp difference & σ=0.2 km-¹ atmospheric attenuation factor / Day Imager- 1000 lux illumination and target contrast of 20%. Probability 50%.
- * Infrared CVBS video available only for 640x512, higher resolution HDSDI, analog video for day/night cameras not available.

 * Pan/tilt speed would be adjusted to different speed depending the payload weight.

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

 * Al/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.



