

TCID9 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. TCID9 includes internal heater/blower, this allows TCID9 series to withstand the harshest climates and making it ideal military and critical security applications, homeland defense, and coastal security.

Extreme Long Range Detection

TCID9 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

TCID9 includes a heavy duty high precision and high repeatibility pan/tilt unit. All worm gears (no transmission belt) and encoders 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 350mm.
- 2mp. 8mp. day/night cameras, up to 2000mm. 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°
- Direct Drive engines / high repeatability / zero backlash
- Auto-lock
- High speed azimuth with -90/90° elevation
- 48v. DC power
- IP66 waterproof housing
- High / Low temperature ready
- HELIOS C2 compatible
- Heater, fan, encoders
- Military connectors
- Onvif 2.5 and Profile S















I/O alarms





Long range









Defogging























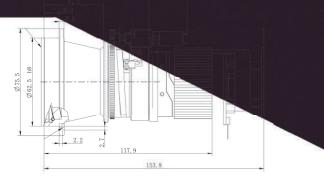




Specifications:

Model		TCID9 Series				
	Туре			or PTZ camera		
	Sensor	LWIR, uncooled Vox micro-bolometer				
	Wavelength	8-14µm.				
	NETD	<35mK@f/1,0 50Hz., 300K				
	Pixel pitch	12μm.				
	Resolutions	640x512 / 1280x1024				
	Display resolution	Up to 1280x1024 or 1920x1080				
	Frames/second	25/30fps.				
	Focal length	25-225mm.		37.5-300mm.		50-350mm.
THEDAMAI	F. number	f.1-1.5		5-1.2		f. 0.95-1.4
THERMAL	Zoom factor	9X	8	X		7X
CAMERA	HFOV 640	17.5×14°-2.0×1.6°		°1.5×1.2°		(7.0°-1.25×1.0°
	HFOV 1280	34.2×27.6°-3.9×3.1°	23.1×18.6	5°-2.9×2.3°	17.5	×14.0°-2.5×2.0°
	Focus	Autofocus, motorized remote focus				
	Video compression	H.265, H.264, Mjpeg				
	Streams	Triple stream				
	Bitrate	256-6,144Kbps. / 1536-7,424Kbps. , VBR/CBR				
	Image settings	Contrast, Brightness, Mirror, Flip, sharpness, Image Enhancement, NR 2/3D				
	Analogue video			ional		
	Motion detection/ROI			res		
	Advanced video analysis					
	Fire detection/ DDE	Yes				
	Sensor	Low lux CMOS sensor, base in module selection				
		Resolution	Zoom	Focal leng		HFOV
		2 megapixel	57X OIS	15-850mr		29,1-0,5°
		2 megapixel	80X	15-1200m		23-0,3°
		4 megapixel	88X	10,5-920m		40-0,49°
		2 megapixel	86X	10-860mr		39,6-0,5°
		8 megapixel	88X	11,3-1000n		37,5-0,44°
DAY/NIGHT		2 megapixel	35X	21-750mi		22-0,48°
CAMERA		2 megapixel	80X	12,5-1000n		18-0,37°
	\(\text{\text{\$\cdot\}}	2 megapixel	80X	25-2000m	ım.	15,1-0,18°
	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,				
	D (Al: 1)	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/NICHT	Video analysis (D/N)	Tripwire, Cross fence, Intrusion, Abandoned-missing object, Fast moving,
DAY/NIGHT	viaco analysis (B/14)	Parking detection, Crowd gathering estimation, Loitering Detection
CAMERA	OIS/EIS	Depending in the camera model
	Local storage	Up to 256Gb. for each camera
	Web browser	IE8 or above, Chrome, Edge, Firefox
	Pan/tilt movement	Pan 360° endless, tilt -90/90°
	Pan/tilt speed	0,001°-60°/Sec 0,001°-40°/Sec.*
	Accuracy	±0,006°
	Presets	256
	Tours	8
	Auto scan / Auto pan	Yes
	Patterns	5 (10min.)
	Groups	4
	Idle action / Start up	Yes
GENERAL	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.
	Encoders	High end absolute positioning encoders
	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	-32°/55°C 0/95% RH not condensing
	Power	48v.DC (24-48v.)
	Auto-lock	Yes
Waterproof Weight		IP66
		50Kg. without cameras / Max. payload per side 30Kg.
	Size	800x535x520mm.
	Options	LRF, DMC, GPS, Marine coating, laser illuminator



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

TCID9 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 availble 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°.

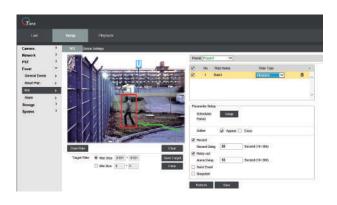
Select optical defogging providing 60fps. video or digital defogging to get rich details in long distance zoom lenses.

Video Analysis

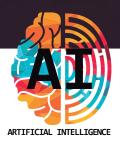
TCID9 Series include advanced video analysis and digital video stabilization taking security cameras to a next level.

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 350mm. narrow angle, including high speed autofocus and remote/motorized focusing.

Advanced Video Analysis and Al

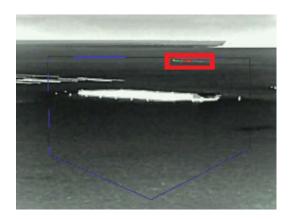
Advanced video analytics are designed to protect critical facilities, large protected areas, border control or military facilities from possible threats. Tanz Security video analytics are advanced algorithms capable to detect intrusions in very long distances and with very low false alarms.

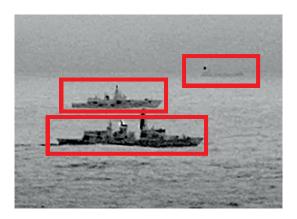
Avoid false alarms caused by white-listed objects into a controlled scenario. Tanz video analytics are able to determine and follow complex rules to avoid the usual analytics false alarms.

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

1 2 ' '	·
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.
Human target 1,8x0,5m.	Johnson's criteria - NATO standard - 350mm. focal length
Detection	14.583m.
Recognition	3.646m.
Identification	1.823m.

Vehicle target 2,3x2,3m.	Johnson's criteria - NATO standard - 350mm. focal length			
Detection				44.722m.
Recognition			11.181m.	
Identification		5.590m.		

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 and laser illuminators are optional.

 * STANAG4347 / Thermal Imager- 2° 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. Infrared EIS only in 1280x1024 resolution.

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

Human target 1,8x0,5m. Johnson's criteria - NATO standard - 225mm. focal length

- * 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.





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