

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 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 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 0,01°
- 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
- Heater, fan, encoders
- Military connectors
- Onvif 2.5 and Profile S



Onvif Onvif **EIS** 



# **Specifications:**

Model		TCID9 Series				
	Туре	Dual sensor PTZ camera				
	Sensor	LWIR, uncooled Vox micro-bolometer				
	Wavelength	8-14μm.				
	NETD	<35mK@f/1,0 50Hz., 300K				
	Pixel pitch	12μm.				
THERMAL CAMERA	Resolutions	640x512 / 1280x1024				
	Display resolution	Up to 1280x1024 or 1920x1080				
	Color palette	10 colors				
	Image enhancement	Yes				
	Frames/second	30fps.				
	Focal length	Up to 350mm.				
	F. number	From f.1 depending in the lens				
	HFOV	Up to 0.4° depending in the lens/resolution				
	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	Optional				
	Motion detection/ROI	Yes				
	Advanced video analysis					
	Fire detection		Yes			
	Sensor	Low lux CMOS sensor, base in module selection				
		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°	
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,				
	Day/Night	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				

Super low lux / Long range DN zoom modules

Long range thermal modules

153.8

	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	
CAMERA	EIS	In D/N camera	
	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	0,01°-60°/Sec 0,01°-40°/Sec.*	
	Accuracy	±0,01°	
	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.	
	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.)	
Laser illuminator		Fiber Coupling EEL type 1000 or 2000m. with zoom collimator	
	Waterproof	IP66	
	Weight	>50Kg. without cameras	
	Size	800x535x520mm.	
	Options	LRF, DMC, GPS, 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**

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 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°.

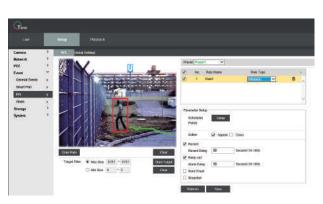
Select optical defogging providing 60fps. video or digital defogging to get rich details in long distance zoom lenses.

## **Video Analysis**

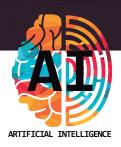
TCID9 Series include advanced video analysis and digital video stabilization taking security cameras to a next level.

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**

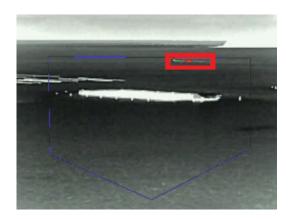
Advanced video analytics are designed to protect critical facilities, large protected areas, border control or military facilities from possible threats. Tanz Security video analytics are advanced algorithms capable to detect intrusions in very long distances and with very low false alarms.

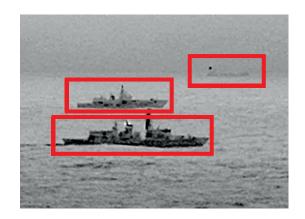
Avoid false alarms caused by white-listed objects into a controlled scenario. Tanz video analytics are able to determine and follow complex rules to avoid the usual analytics false alarms.

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**

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.
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	11.000m.
Observation	4.365m.
Recognition	2.200m.
Identification	1.100m.

Human target 1,8x0,5m.	DORI distances for 1200mm.	
Detection	20.000m	١.
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.
- \* Pan/tilt speed would be adjusted to different speeds depending the payload weight. \* 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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