

Multisensor fixed camera

LWIR



TCIDC Multisensor fixed Series

TCIDC series is a dual-sensor fixed 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 and stainless steel. TCIDC includes internal heater/blower. This allows TCIDC series to withstand the harshest climates and making it ideal military and critical security applications, homeland defense, and coastal security.

Extreme Long Range Detection

TCIDC includes advanced Long-Wave Infrared (LWIR) HD thermal sensors in 640x512 or 1280x1024 capable of detecting vehicles at over 12km. distance and humans at over 4Km. distance.

Harsh environment ready

Designed to be installed in harsh environments. High grade stainless steel and aluminum housing to be able to stand most complicated locations.

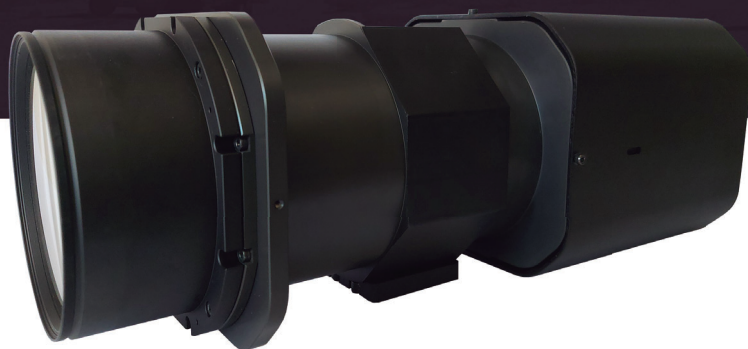
Key features:

- 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 100mm.
- 2mp. - 8mp. day/night cameras, up to 850mm zoom lens
- Starvis super low lux sensor
- 30/60fps. video
- EIS/OIS video stabilization for perfect image video stability
- Advanced video analytics and autotracking optional
- 12v. DC power
- IP66 waterproof housing
- High / Low temperature ready
- HELIOS C2 compatible
- Heater, fan
- Military connectors
- Aluminum-Stainless steel housing and bracket
- Onvif 2.5 and Profile S

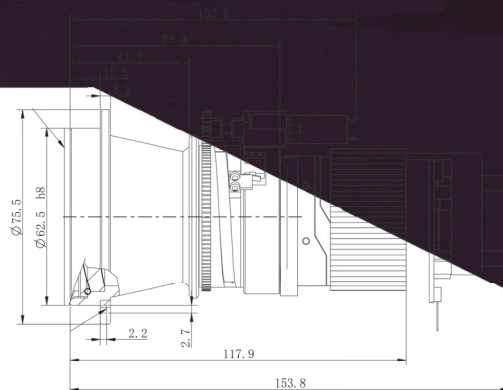


Specifications:

Model	TCIDC Series			
THERMAL CAMERA	Type	Dual sensor fixedcamera		
	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		
	Frames/second	25/30fps.		
	Focal length	Up to 100mm.		
	F. number	From f.1 depending in the lens		
	HFOV	Up to 1.25° depending in the lens/resolution		
	Focus	Autofocus, motorized remote focus or fixed 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		
DAY/NIGHT CAMERA	Motion detection/ROI	Yes		
	Advanced video analysis	Tripwire, Cross Fence detection, Intrusion, Loitering detection		
	Fire detection	Yes		
	Sensor	Low lux CMOS sensor, base in module selection		
		Resolution	Zoom	Focal length
		2 megapixel	35X	6-210mm.
		2 megapixel	50X	6-300mm.
		2 megapixel	90X	6-540mm.
		2 megapixel	86X	10-850mm.
		5 megapixel	30X	6-180mm.
		8 megapixel	50X	6-300mm.
	Video compression	H.265, H.264, Mjpeg		
	Streams	Triple stream		
	Bitrate	1024-8,384Kbps., VBR/CBR		
	Frames/second	30fps. / 60fps.		
	S/N ratio	≥55dB		
	Image settings	Contrast, Brightness, Mirror, Flip, sharpness, Enhancement, 2/3DNR, AWB, BLC, HLC, WDR, Near Infrared		
	Day/Night	Day, night, auto		
	Focus type	Autofocus, remote motorized		
	Defogging	Optical or digital, base in selection		
	Digital zoom	16X		



Super low lux / Long range DN zoom modules



Long range thermal modules

DAY/NIGHT CAMERA	Video output	Digital
	Video analysis (D/N)	Tripwire, Cross fence, Intrusion, Abandoned-missing object, Fast moving, Parking detection, Crowd gathering estimation, Loitering Detection
	EIS/OIS	Depending in the lens selection
	Local storage	Up to 256Gb. for each camera
GENERAL	Web browser	IE8 or above, Chrome, Edge, Firefox
	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, G
	Environmental	-32°/65°C. - 0/95% RH not condensing
	Power	12v.DC
	Electric protection	Protective circuit for surge and noise
	Housing material	Aluminum-Stainless steel
	Waterproof	IP66
	Weight	10Kg. without cameras
	Size	650x380x190mm.
	Options	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

TCIDC 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 0,4°.

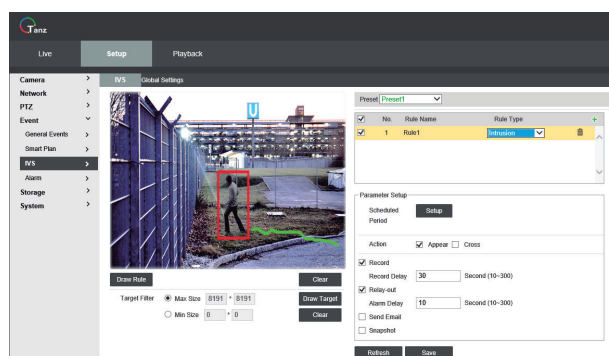
Select optical defogging providing 60fps. video or digital defogging to get rich details in long distance zoom lenses.

Video Analysis

TCIDC 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 100mm. narrow angle, including high speed autofocus and remote/motorized focusing.

Advanced Video Analysis and AI

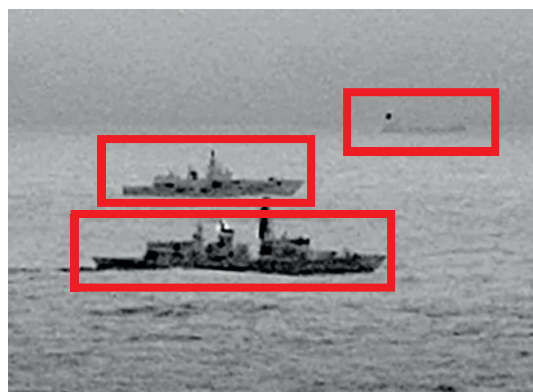
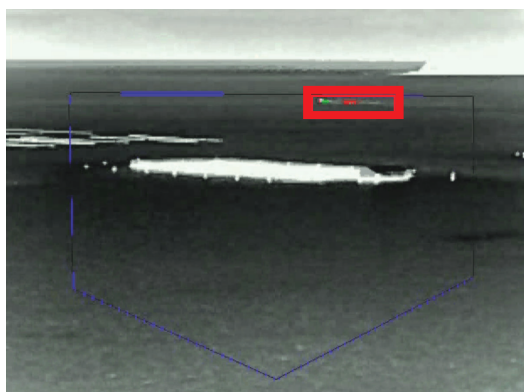
Advanced video analytics are designed to protect critical facilities, large protected areas, border control or military facilities from possible threats. Tanz Security video analytics are advanced algorithms capable to detect intrusions in very long distances and with very low false alarms.

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.



Thermal - DRI Distances

Human target 1,8x0,5m.	Johnson's criteria - NATO standard - 100mm. focal length	
Detection		4.167m.
Recognition		1.042m.
Identification		521m.

Vehicle target 2,3x2,3m.	Johnson's criteria - NATO standard - 100mm. focal length	
Detection		12.778m.
Recognition		3.194m.
Identification		1.597m.

Day and Night - DORI Distances

Human target 1,8x0,5m.	DORI distances for 850mm.	
Detection		11.000m.
Observation		4.365m.
Recognition		2.200m.
Identification		1.100m.

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

* Marine paint coating optional.

* Johnson's Criteria / Thermal Imager- 2° temp difference & $\sigma=0.2 \text{ km}^{-1}$ atmospheric attenuation factor / Day Imager- 1000 lux illumination and target contrast of 20%. Probability 50%.

* GE window included in all lenses under/and 55mm., optional in 100mm. and above.

* Infrared CVBS video available only for 640x512, higher resolution HDSDI, analog video for day/night cameras not available.

* Check lenses, sensors and options to define the 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.

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