

Thermal fixed cameras

LWIR



TCIB3 Series

TCIB3 series are Tanz Security advanced LWIR thermal cameras with outstanding NETD sensitivity and in 640x512, or 1280x1024 resolution. Paired with a wide range of lenses make TCIB3 Series the perfect surveillance solution for short and mid-range distances.

Tanz Security TCIB3 thermal bullet cameras can be used as fixed indoor or outdoor cameras, easy to be installed and including features like video analytics. TCIB3 thermal cameras optionally can include AI for object classification or advanced security projects.

TCIB3 Series provide high detection distances to prevent and detect possible threat as early as possible. TCIB3 series include the fire detection capability to control and prevent wild fires or spontaneous fire in industrial facilities.

Key features:

- Thermal resolution in 1280x1024 or 640x512 pixels
- High performance NETD sensors
- Vox sensors with 12μm. pixel pitch
- 25/30 frames/second video
- Wide range of lenses to be selected
- Fix focus athermal lenses
- Image enhancement system
- Noise reduction filter
- Video analytics
- Fire detection
- Artificial Intelligence*
- HELIOS C2 compatible
- DC power
- Local storage up to 265Gb.
- Onvif 2.5 and Profile S

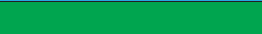


Specifications:

Model	TCIB33				TCIB35			
THERMAL CAMERA	Type	Fixed thermal camera						
	Sensor	LWIR, uncooled Vox micro-bolometer						
	Wavelength	8-14µm.						
	NETD	<35mK@f/1,0 50Hz., 300K						
	Pixel pitch	12µm.						
	Resolutions	640x512				1280x1024		
	Color palette	10 colors						
	Frames/second	25/30fps.						
	Lenses	13mm.	19mm	25mm.	13mm.	19mm.	25mm.	
	HFOV	32,9x26,6°	22,9x18,4°	17,46x14°	61,1x 50,5°	44°x35,8°	34,1x 27,6°	
	F.No.	f.1.0	f.1.0	f.1.0	f.1.0	f.1.0	f.1.0	
	Display resolution	1280x1024				1920x1080		
	Lens type	Focus free / Athermal						
	Image enhancement	Yes						
	Fire detection	Yes						
	NUC	Automatic or manual						
	Video compression	H.265, H.264, Mjpeg						
	Streams	Triple						
	Bitrate	256-6144Kbps., customizable						
	Image settings	Contrast, Brightness, Mirror, Flip, sharpness, Enhancement, NR						
	Video analytics	Yes						
	Advanced video analytics/AI	Optional						
	Region of interest	Yes						
GENERAL	Onvif	Onvif 2.5/Profile S						
	Web browser	Internet Explorer 8 or higher, Chrome, Edge, Firefox						
	Network	1X RJ45 10/100						
	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						
	Environmental	Waterproof IP66						
	I/O alarms	1/1						
	Power	12vDC./1A.						
	Local storage	Micro SD, up to 256Gb.						
	Working temperature	-25º/65ºC.						
	Humidity	0-95%, not condensing						
	Weight	1,2Kg.						
	Size	190x70x70mm.						

Thermal - DRI Distances

Human target 1,8x0,5m.	Johnson´s criteria - NATO standard - 13mm. focal length	
Detection		542m.
Recognition		135m.
Identification		68m.

Vehicle target 2,3x2,3m.	Johnson´s criteria - NATO standard - 13mm. focal length	
Detection		1.661m.
Recognition		415m.
Identification		208m.

Human target 1,8x0,5m.	Johnson´s criteria - NATO standard - 19mm. focal length	
Detection		792m.
Recognition		198m.
Identification		99m.

Vehicle target 2,3x2,3m.	Johnson´s criteria - NATO standard - 19mm. focal length	
Detection		2.428m.
Recognition		607m.
Identification		303m.

Human target 1,8x0,5m.	Johnson´s criteria - NATO standard - 25mm. focal length	
Detection		1.042m.
Recognition		260m.
Identification		130m.

Vehicle target 2,3x2,3m.	Johnson´s criteria - NATO standard - 25mm. focal length	
Detection		3.194m.
Recognition		799m.
Identification		399m.

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

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

* 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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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 slow 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.

