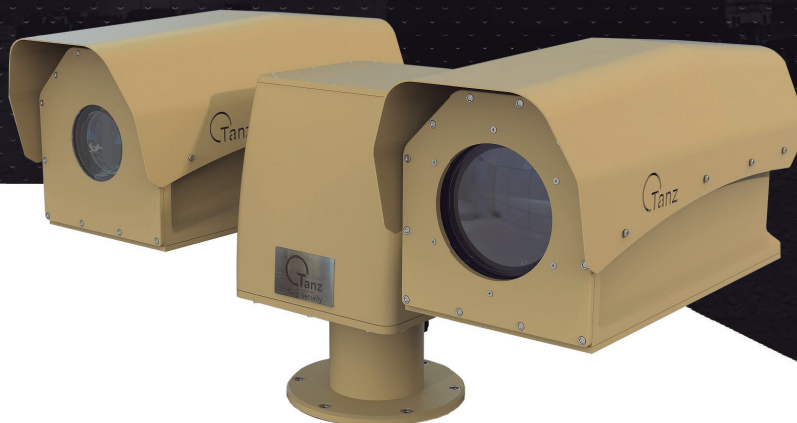


Multisensor PTZ camera



TCIDH multisensor PTZ Series

TCIDH series is an advanced long range PTZ security system. Mounted in a high precision worm gear pan/tilt unit, the special design of the positioning system has zero maintenance. All transmission gears are worm type ensuring a long lasting system.

TCIDH cameras are rugged and compact, ready to work in extreme weather conditions and including features like wiper internal heaters and fan to keep the cameras working in any installation. Designed to work in most extreme and harsh weather, in the perfect solution for sea ports, or critical infrastructure security, such as boarder control, airport security or power plants

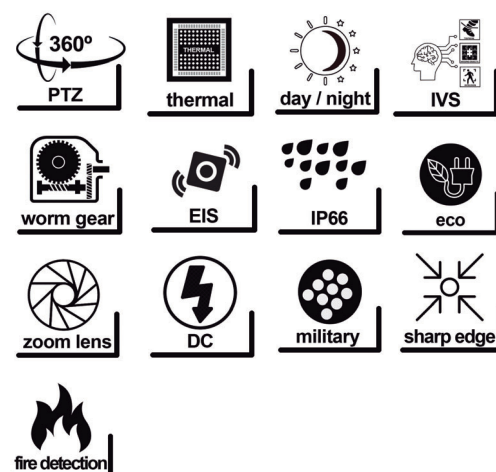
TCIDH camera series are designed to work in several scenarios and they are military proven. Including advanced day and night super low lux sensors and long range zoom lenses. Get the best image quality 24/7.

TCIDH Series include advanced 640x512 or 1280x1024 LWIR thermal resolution sensors with latest 12um pixel array, able to deliver best IR image quality and high speed thermal video in 30 or 50fps.

The rugged IP66 housing and pan/tilt constructed of strengthened aluminum alloy with anti-corrosive coating, allows to TCIDH Series withstand the harshest climates and conditions, making it ideal for perimeter security, homeland security, coastal protection and boarder security.

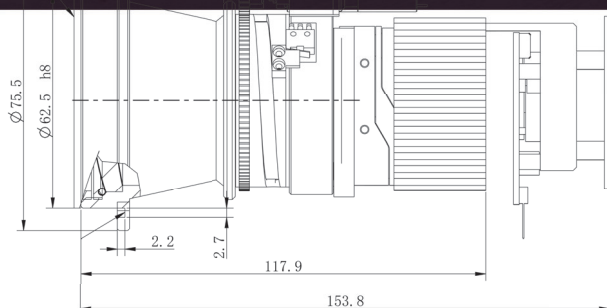
Key features:

- **Thermal resolution in 640x512 or 1280x1024**
- **LWIR Vox thermal sensors with 12um pixel pitch**
- **2-5-8mp. resolution day/night zoom modules**
- **Up to 540mm. day/night optical zoom**
- **Advanced super low lux Starvis back illuminated CMOS sensors**
- **Defogging**
- **EIS video stabilization for perfect image video stability**
- **On-board video analytics**
- **Fire detection***
- **Giga Ethernet**
- **High precision stepper motor technology, accurate pan/tilt 0,1°**
- **Worm drive engine, long lasting drive system (no belt)**
- **24v. DC power**
- **IP66 waterproof and ruggedized aluminum housing**
- **Military connector**
- **Fan, heater**
- **Onvif 2.5 and Profile S**



Specifications:

Model	TCIDH Series				
THERMAL CAMERA	Type	Dual sensor PTZ 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			
	Image enhancement	Yes			
	Frames/second	50fps.		25/30fps.	
	Focal length	Available lenses from 25mm. to 100mm.			
	Lens types	Athermal, fixed focal length or zoom			
	Focus	Focus free or autofocus			
	Video compression	H.265,H.264, Mjpeg			
	Streams	Triple stream			
	Bitrate	128-8,480Kbps., customizable			
	Image settings	Contrast, Brightness, Mirror, Flip, sharpness, Enhancement, 3/2NR			
	Advanced video analysis*	Tripwire, Cross fence detection, Intrusion, Loitering detection			
	Fire detection*	Optional			
	Analogue video	Optional			
	Motion detection	Yes			
Privacy mask	Yes				
ROI	Yes				
DAY/NIGHT CAMERA	Sensor	Low lux CMOS sensor, base in module selection			
		Resolution	Zoom	Focal length	HFOV
		2 megapixel	35X	6-210mm.	61,2º-2,0º
		2 megapixel	50X	6-300mm.	58,4º-1,4º
		2 megapixel	90X	6-540mm.	59º-0,8º
		2 megapixel	58X (OIS)	6-365mm.	59º-0,8º
		5 megapixel	30X	6-180mm.	61º-2,3º
		8 megapixel	30X	6-180mm.	63º-2,6º
		8 megapixel	50X	6-300mm.	59º-1,8º
	Video compression	H.265, H.264, Mjpeg			
	Streams	Triple stream			
	S/N.	≥55dB.			
	Bitrate	1,792-8,192Kbps., customizable up to 16,384 in MJPEG			
	Image settings	Contrast, Brightness, Mirror, Flip, sharpness, Enhancement, 3/2NR, AWB BLC, HLC, WDR			
	Day/Night	Day, night, auto			
	Frames/second	30fps., with optical defog lenses			
Focus type	Auto, remote motorized				
Defogging	Optical or digital, base in selection				



Long range optical zoom modules

DAY/NIGHT CAMERA	Video output	Digital, analog optional
	Video analysis (D/N)	Tripwire, Cross fence, Intrusion, Abandoned-missing object, Fast moving, Parking detection, Crowd gathering estimation, Loitering Detection
	EIS	In D/N camera
	Local storage	Up to 128Gb.
GENERAL	Web browser	IE8 or above
	Pan/tilt movement	Pan 360° endless, Tilt -60/40°
	Pan/tilt speed	0,1-80°/Sec. - 0,1-40°/Sec.
	Accuracy	±0,1°
	Presets	256
	Tours	32
	Auto scan	8
	Patterns	4 (10min.)
	Groups	4
	Schedules	16
	Protocols	Pelco D
	Digital alarms	Motion detection, IVS, fire*
	Alarm I/O	D/N 1/1 - IR 1/1 (Optional 2/2 in IR)
	RS485	Yes
	Audio	2 way (Optional)
	Connector	Military type
	Network	RJ45 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
	Fan/Heater	Yes
	Platform	Onvif 2.5, Profile S
	Environmental	-32°/65°C. / 0/95% RH not condensing
	Gear	Worm gear, high repeatability
	Power	24v.DC
	Electric protection	Protective circuit for surge and noise
	Waterproof	IP66
	Weight	<25Kg.
	Size	730x490x370mm.
	Certifications	CE, RoHS compliant

- 50 or 30fps. high definition IR video
- Day/night back illuminated sensors
- Long range day/night lenses
- Built-in video analytics

- Built-in video stabilization
- Defogging
- Wide working temperature range
- Heavy duty PTU gears and engines

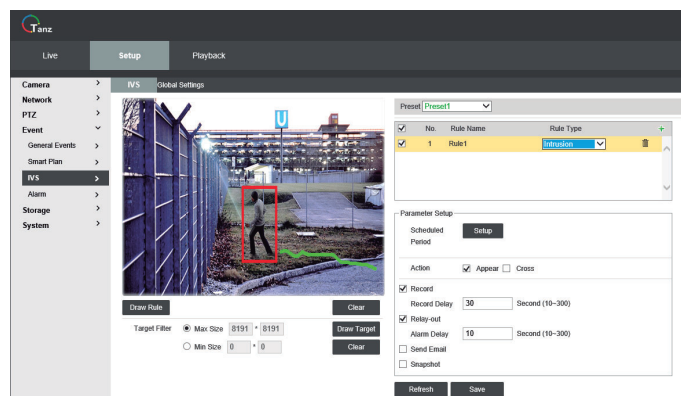


EIS and Video Analysis

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

Tanz Security cameras are now built-in 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.



High Performance Video Compression

TCIDH Series include high performance video compression to help you to decrease the storage demand, including now several encoding options in H.265, H.264, Mjpeg and Mpeg4.

Visible/NIR Optical Camera

THCH 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.

THCH also integrates the latest technology in real-time image processing such as BLC, HLC, WDR, EIS, 2/3DNR.

Full HD Images

THCH PTZ cameras are best in class providing high definition image in your surveillance applications, now they deliver up to 4 times higher definition than traditional HD sensor cameras. Select sensors from 2mp. to 8mp. to achieve best image quality in day or night video.

Long Range Day/Night Zoom Lenses

Select from available lens options, all Tanz Security advanced zoom lenses include several zoom motor speeds and available zoom options in 30X, 35X, 50X, 86X, 90X providing narrow FOV small as 0,44°.

Day and Night - DORI Distances

Human target 1,8x0,5m.	DORI distances for 540mm.	
Detection		7.170m.
Observation		2.820m.
Recognition		1.410m.
Identification		705m.

Thermal - Johnson's Criteria

Human target 1,8x0,5m.	DRI Johnson's criteria - NATO standard - 100mm. focal length	
Detection		5.270m.
Recognition		1.318m.
Identification		659m.

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

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

* GE window, fire detection and perimetric analytics are optional.

* Tanz Security reserves the right to change products or specifications without notice.

* Tanz Security brand and logo are registered trade marks.