

THC1 Series

Mid and Long Range Day/Night Cameras



THC1 Series

THC1 Mid and long range day and night cameras are advanced and powerful systems designed for fixed installations or mounted on positioning systems. Capable to display and capture crispy and full detail video in long distances. Perfect for Blue Line surveillance, border control and other long distance demanding projects.

Best image definition powered by long range optical zooms up to 80X optical zoom and focal length up to 750mm. to provide accurate information in long distances, recognition and detection of intruders kilometers away supported by EIS (video stabilization), fog filter and optical defogging.

Key features:

- 2mp. resolution
- Advanced super low lux Starvis back illuminated CMOS sensors
- 35X IR-corrected optical zoom, 21-750mm.
- Narrow FOV up to 0,48°
- Up to 120fps. video
- High performance AF lens
- TFC design for high temperature environments
- H.265, H.264, Mjpeg compression
- WDR, HLC, BLC, AWB
- Optical defogging and fog filter
- EIS video stabilization for perfect image video stability
- Near Infrared video
- On-board video analytics
- HELIOS C2 compatible
- DC power
- Onvif 2.5 and Profile S, G, T, M
- Serial communication RS485/Pelco D



Specifications:

Model	THC1222	
CAMERA	Type	Long range Day/night network camera
	Sensor	1/2" Sony Exmor CMOS Starvis
	Resolution	1920x1080 / Full HD
	Focal length/factor	21-750mmmm.
	F. number	F. 3,5
	HFOV	22°- 0.48°
	Min. illumination	Color: 0.006Lux - B/W : 0.0006Lux 30/25fps. Color: 0.012Lux - B/W : 0.0012Lux 60/50fps. Color: 0.024Lux - B/W : 0.0024Lux 120/100fps.
	S/N ratio/WDR	≥55dB./120dB.
	Zoom travel speed	6 sec. for full travel
VIDEO	Video compression	H.265/H.264 baseline, main profile, high profile, Mjpeg,
	Video streams	Triple
	Bitrate	1024-8,384Kbps., customizable
	Optical defogging	Night Mode 750nm~1100nm channel optical defog
	Day/night	Active, passive, day, night, scheduled
	Focus type	Auto, manual, one push, multiple focus options
	Frames/second	H.265/H.264: Max. 60/50fps.(AI on), Max. 120/100fps.(AI off) MJPEG: Max. 15fps./12fps.
	Image settings	WDR, HLC, BLC, AWB, Optical defog, EIS, ROI (6)
	Digital zoom	16X
GENERAL	Network	RJ45 10/100/1000 Mbps Ethernet
	Network protocols	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP (TCP,UDP unicast)
	Local storage	Micro SD max. 1Tb.
	Platform	Onvif 2.5, Profile S, G, T, M, SDK included
	Working temperature	-32°/55°C
	Humidity	0-95% RH not condensing
	Power	12v. DC
	VMS	Tanz VMS and 3rd. party compatible
	IVS	Classify: Person/Face/Vehicle/License plate Attributes: Vehicle Type: car/bus/truck/motorcycle/bicycle Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Shock detection, Virtual area(Appear/Disappear)
	Protocols	Pelco D/P

GENERAL	RS485	Yes
	Alarms in/out	1/1
	Waterproof	IP66
	Cable kit	Included complete matting connectors
	Weight	19,4Kg.
	Size	650x240x245mm. / Lens 100mm.
	Options	Marine paint coating

Visible/NIR Optical Camera

THC1 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 0,006 Lux.

THC1Series also integrates the latest technology in real-time image processing such as BLC, HLC, WDR, EIS, 2/3D DNR, Near Infrared video and fog penetration filter.

HD resolution video up to 120fps.

THC1 Series cameras are best in class providing high definition image in your surveillance applications, now able to provide video in multiple fps. speed, providing up 120fps. speed to ensure crispy and super clear video in fast moving objects.

Long Range Zoom Lenses

Select from available lens options, all Tanz Security advanced zoom lenses include several AF speeds modes, and available zoom up to 80X providing narrow FOV small as 0,18°.

High performance Japanese made lens / TFC, ready for high temperatures

High quality and outstanding Japanese made long range zoom lens. Designed for demanding application where very long distances shall be achieved. Designed with TFC tolerance to be used in high temperature environments.

Day and Night - DRI Distances

Recognition 32 pixels/target 2000mm. lens		
Boat	8x3m.	57,87Km.
Vehicle	2.3x2.3m.	36,76Km.
Human	1.8x0.5m.	28,77Km.

Identification 64 pixels/target 2000mm. lens		
Boat	8x3m.	19.16Km.
Vehicle	2.3x2.3m.	18,38Km.
Human	1.8x0.5m.	14,39Km.

* AI classification metadata compatibility with 3rd. party VMS is base in Onvif Profile M.

* Different light/environment conditions may affect to the lens performance.

* 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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EIS video stabilization, advanced motion detection and AI

THC1 Series include advanced video analysis, AI and digital video stabilization and turbulence mitigation 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**
- **Classified object type: Person/Face/Vehicle/License plate**
Attributes: Vehicle type: car/bus/truck/motorcycle/bicycle
- **Analytics events based on AI engine**
Object detection, Virtual line Crossing/Direction, Virtual area Loitering/Intrusion/Enter/Exit
- **Analytics events**
Defocus detection, Motion detection, Fog detection, Shock detection, Virtual areaAppear/Disappear

Security as top priority

THC1 Series include high performance security standards, designed to military use and to prevent possible networking threats. THC1 is ready for most demanding installations, including:

TPM 2.0(FIPS 140-2 level 2)
 HTTPS(SSL) Login Authentication
 Digest Login Authentication
 IP Address Filtering
 User access log
 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)
 Device Certificate (Root CA, pre-installed)
 Secure by default certificate
 Secure OS/Boot/Storage, Verify firmware forgery

