

THCA22H Series

Long Range Day/Night Cameras



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THCA22H is a long range day and night camera with an advanced and powerfull system 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.

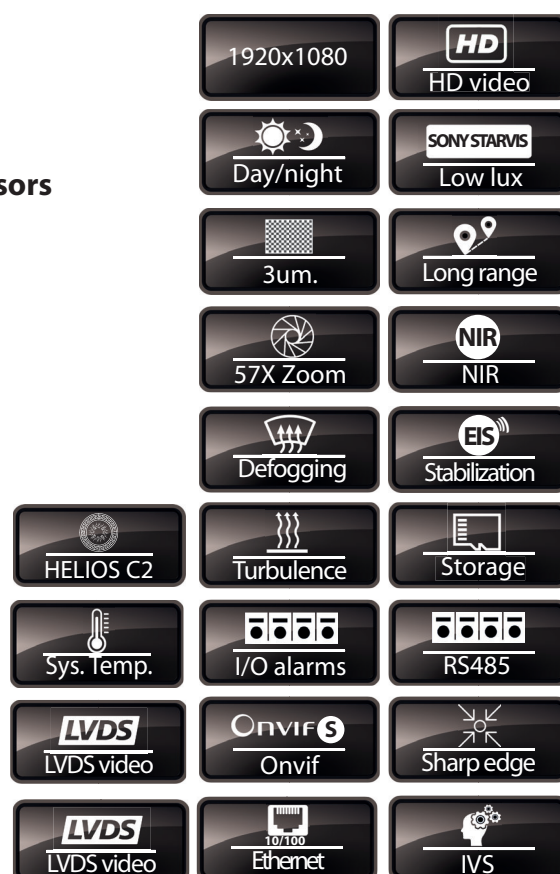
Best image definition powered by long range optical zooms up to 86X optical zoom and focal length up to 860mm. to provide accurate information in long distances, recognition and detection of intruders kilometers away including optical defogging and digital video stabilization Now even greater security with on-board video analytics.

The perfect solution it ideal for mobile deployments, perimeter security, homeland defense, and coastal protection.

THCA22H optical zoom lens special design is able to provide both Ethernet (compressed digital video) and LVDS output.

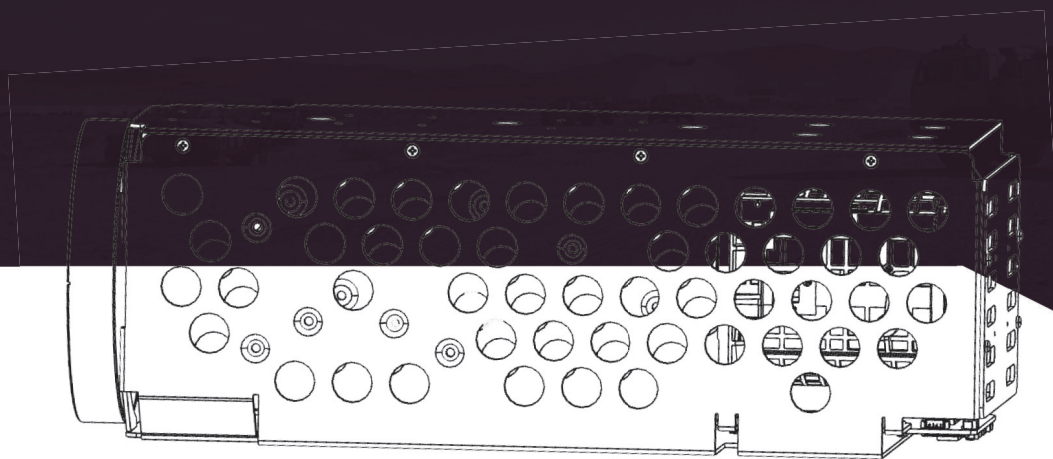
Key features:

- Resolution from 2mp. at 30fps.
- Advanced super low lux Starvis back illuminated CMOS sensors
- 86X IR-corrected optical zoom 15 -860mm.
- Narrow FOV up to 0,5°
- H.265, H.264, Mjpeg compression and LVDS
- WDR, HLC, BLC, AWB
- Optical defogging
- Near Infrered video
- Digital video stabilization
- On-board video analytics
- HELIOS C2 compatible
- 12v.DC power
- Onvif 2.5 and Profile S
- High VMS compatibility



Specifications:

Model	THCA22H	
CAMERA	Type	Long range Day/night network camera
	Sensor	1/1.8" Sony Exmor CMOS Starvis
	Resolution	1920x1080 / Full HD
	Focal length	10 - 860mm.
	F. number	F. 2 - 6,8
	HFOV	39,6° - 0.5°
	Zoom factor	86X
	Min. illumination	Color: 0.01Lux/F.1,4; B/W: 0.001Lux/F. 1,4
	S/N ratio	≥55dB
	Focus distance	5-10m. (wide-tele)
	Zoom travel speed	3 sec. for full travel
VIDEO	Video compression	H.265/H.264 baseline, main profile, high profile, Mjpeg + LVDS
	Video streams	Triple
	Bitrate	1024-8,384Kbps., customizable
	Optical defogging	Night Mode 750nm~1100nm channel optical defog + digital
	Day/night	Active, passive, day, night, scheduled
	Focus type	Auto, manual, one push, multiple focus options
	Frames/second	50/60fps. (LVDS 30fps.)
	Shutter speed	1/3 - 1/30,000 Sec.
	Image settings	WDR, HLC, BLC, AWB, Optical defog, turbulence mitigation, EIS
	Digital zoom	16X
GENERAL	Network	RJ45 10/100 Mbps Ethernet
	Network protocols	IPv4/v6, RTSP/RTP/RTCP, TCP/UDP, HTTP, HTTPS, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP V1/V2, IEEE802.X, QoS, ICMP, IGMP, NTP
	Local storage	Micro SD max. 265Gb.
	Platform	Onvif 2.5, Profile S, SDK included
	Working temperature	-30°/60°C
	Humidity	0-95% RH not condensing
	Power	12v. DC (±15%)
	Electric protection	TVS 4000v.
	VMS	Tanz VMS and 3rd. party compatible
	IVS	Tripwire, cross fence, intrusion, abandoned/missing object, fast-moving, parking detection, crowd gathering estimation, Loitering
	Protocols	Pelco D/P
	RS485	Yes
	Alarms in/out	1/1
	Waterproof	IP66
	Cable kit	Included complete cable connectors
	Weight	14.1Kg.
	Size	320x109x109mm. / Lens 105mm.



Long range optical zoom modules

Visible/NIR Optical Camera

THCA22H 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 0,01 Lux.

THCA22H Series also integrates the latest technology in real-time image processing such as BLC, HLC, WDR, 2/3D DNR.

Long Range Zoom Lenses

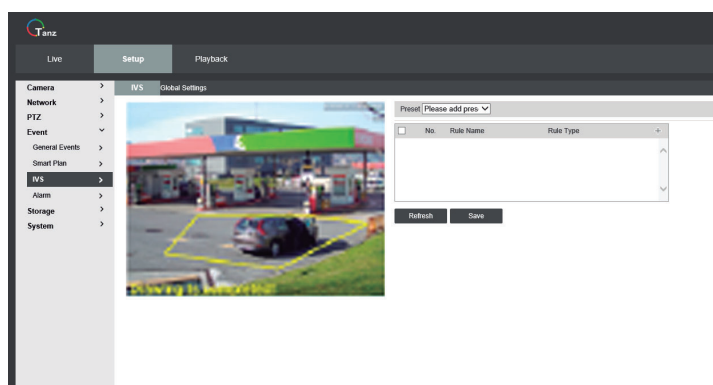
Select from available lens options, all Tanz Security advanced zoom lenses include several zoom motor speeds and moving object tracking, available zoom up to 80X providing narrow FOV small as 0,5°.

Select optical defogging or digital defogging to get rich details in long distance zoom lenses.

Advanced Video Analysis

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.



High Performance Video Compression

THCA22Q-O 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 LVDS (dual output).

EIS video stabilizations and Turbulence mitigation algorithms

THCA22H Series include most advanced algorithms to decrease the heat turbulences caused by high temperatures in video surveillance applications. Specially suggest in border security or coastal security. It also includes EIS video image stabilization, improving the image caused by wind and other high frequency vibrations.

Near Infrared video / optical defogging

Optical defogging provides a superb image quality in fog, smoke or haze environments, specially designed for long distance surveillance and helping to see through fog and other atmospheric phenomena. Perfect for coastal or border control installations.

Day and Night - DORI Distances

Human target 1,8x0,5m.	DORI distances for 860mm.	
Detection		14.667m.
Observation		5.820m.
Recognition		2.933m.
Identification		1.466m.

* 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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