

THCA Series

Mid and Long Range Day/Night Cameras



THCA82R Series

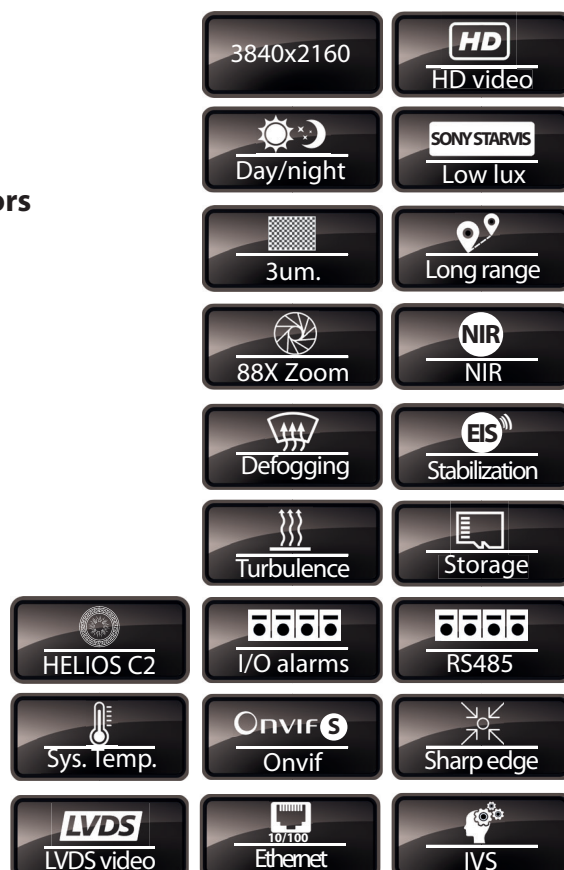
THCA82R long range day and night cameras are advanced and powerful systems designed for fixed installations or mounted on positioning systems. Capable to display and capture crispy and full detail video in long distances. Perfect for Blue Line surveillance, border control and other long distance demanding projects.

Best image definition powered by long range optical zooms up to 88X optical zoom and focal length up to 1000mm. to provide accurate information in long distances, recognition and detection of intruders kilometers away supported by EIS (video stabilization) and optical defogging. Now even greater security with on-board video analytics and long distance turbulence mitigation and near infrared video.

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

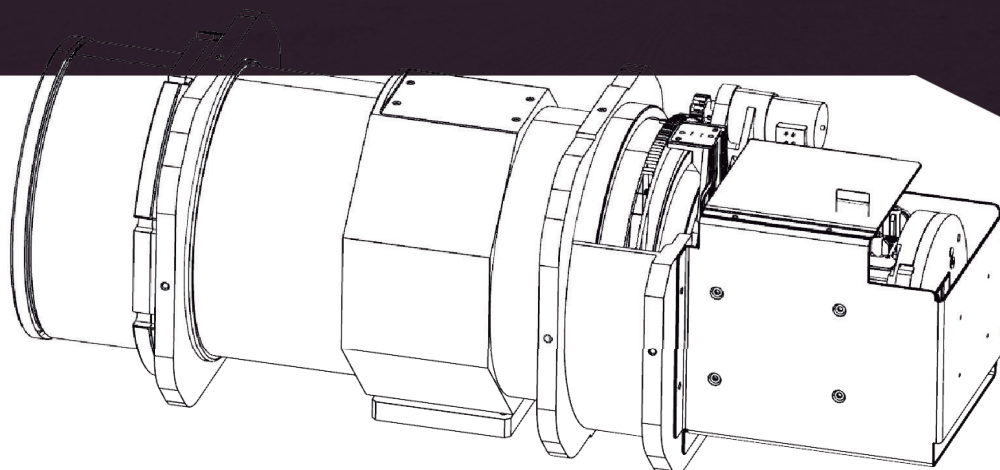
Key features:

- Resolution from 8mp.
- Advanced super low lux Starvis back illuminated CMOS sensors
- 88X IR-corrected optical zoom, up to 1000mm.
- Narrow FOV up to 0,44°
- H.265, H.264, Mjpeg compression
- WDR, HLC, BLC, AWB
- Optical defogging
- EIS video stabilization for perfect image video stability
- Turbulence mitigation filter
- Near Infrared video
- System temperature display
- On-board video analytics
- HELIOS C2 compatible
- High power motorized laser, optional
- DC power
- Onvif 2.5 and Profile S



Specifications:

Model	THCA82R	
CAMERA	Type	Long range Day/night network camera
	Sensor	1/1.8" Sony Exmor CMOS Starvis
	Resolution	3840x2160
	Focal length	11,3-1000mm.
	F. number	F. 2.1 - 7,5
	HFOV	37,5°-0,44°
	Zoom factor	88X
	Min. illumination	Color: 0,1Lux/F2,1; B/W: 0,01Lux/F2,1
	S/N ratio	≥55dB
	Focus distance	5-10m. (wide-tele)
	Zoom travel speed	8 sec. for full travel
VIDEO	Video compression	H.265/H.264 baseline, main profile, high profile, Mjpeg
	Video streams	Triple (Also supports simultaneous LVDS video in 2mp. resolution)
	Bitrate	1024-8,384Kbps., customizable
	Optical defogging	Night Mode 750nm~1100nm channel optical defog, Near infrared
	Day/night	Active, passive, day, night, scheduled
	Focus type	Auto, manual, one push, multiple focus options
	Frames/second	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. 256Gb.
	Platform	Onvif 2.5, Profile S, SDK included
	Working temperature	-30°/60°C
	Humidity	0-95% RH not condensing
	Power	12v. DC (±15%), up to 8,5watt.
	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, LVDS upon request
	Weight	16.6Kg.
	Size	415x145x150mm. / Lens 120mm.



Long range optical zoom modules

Visible/NIR Optical Camera

THCA 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.

THCA also integrates the latest technology in real-time image processing such as BLC, HLC, WDR, EIS, 2/3D DNR and long range filter for turbulence mitigation.

HD Images

THCA Series 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 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 88X providing narrow FOV small as 0,4°.

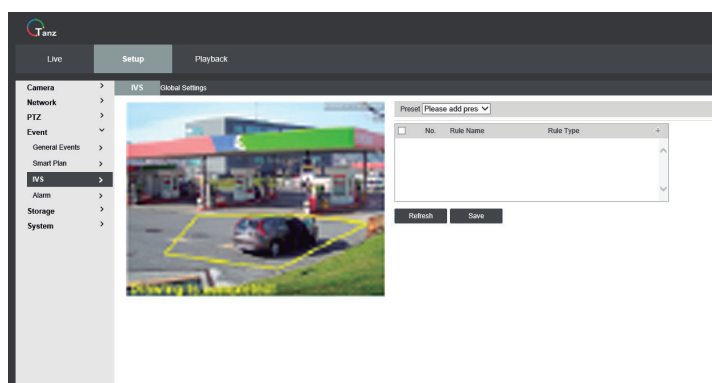
Select optical defogging or digital defogging to get rich details in long distance zoom lenses.

EIS, Turbulence mitigation and Video Analysis

THCA Series include advanced video analysis and digital and optical video stabilization and turbulence mitigation and high performance near infrared video, 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.



High Performance Video Compression

THCA Series includes 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.

Day and Night - DORI Distances

Human target 1,8x0,5m.	DORI distances for 1000mm.	
Detection		22.000m.
Observation		7.937m.
Recognition		4.000m.
Identification		2.000m.

* OIS (Optical Image stabilization) only in selected models, optical or digital defogging to select, turbulence mitigation only in selected models.

* Check lenses, sensors and options to define the proper configuration

* AI/Deep learning/Object classification and advanced features with HELIOS C2

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