

# THCA Series

## Long Range Day/Night Cameras



### THCA22F Series

THCA22F is a long range day and night camera with an advanced and powerful 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.

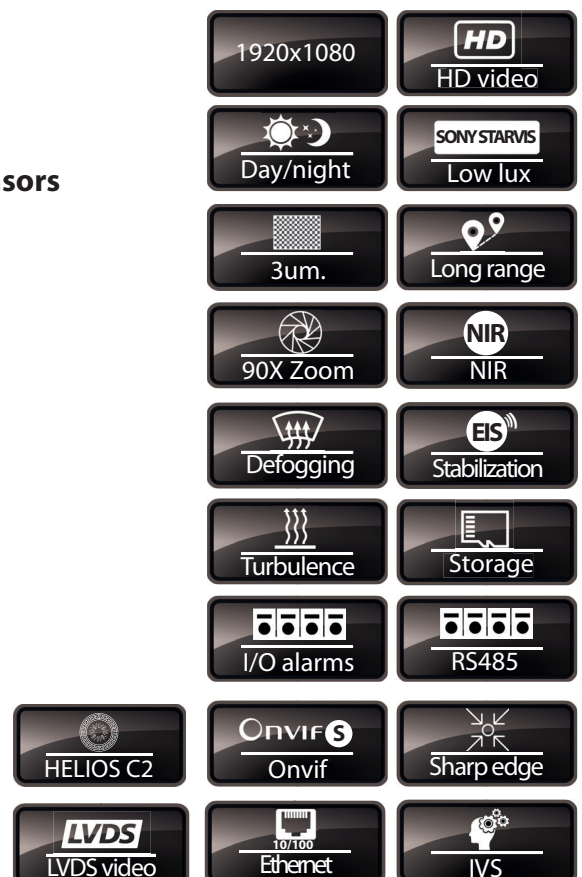
Best image definition powered by long range optical zooms up to 90X optical zoom and focal length up to 540mm. to provide accurate information in long distances, recognition and detection of intruders kilometers away including optical defogging. Now even greater security with on-board video analytics.

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

THCA22F optical zoom lens special design is able to provide both Ethernet (compressed digital video) and LVDS output

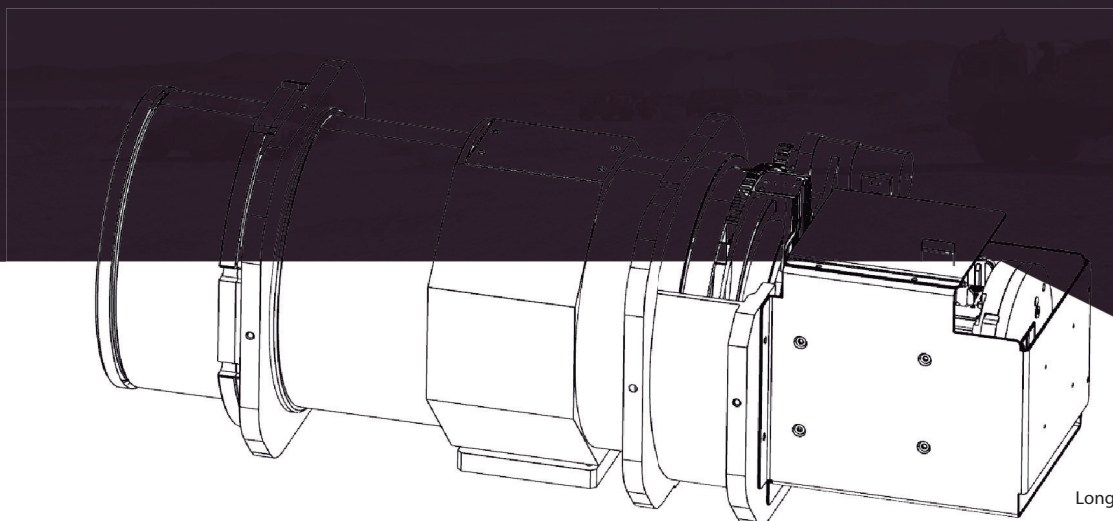
### Key features:

- Resolution from 2mp. at 30fps.
- Advanced super low lux Starvis back illuminated CMOS sensors
- 90X IR-corrected optical zoom 6 -540mm.
- Narrow FOV up to 0,8°
- H.265, H.264, Mjpeg compression and LVDS dual output
- WDR, HLC, BLC, AWB
- Optical / digital defogging
- Near infrared video
- HELIOS C2 compatible
- On-board video analytics
- 12v.DC power
- Onvif 2.5 and Profile S
- High VMS compatibility



## Specifications:

| Model   | THCA22F             |                                                                                                                                   |
|---------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| CAMERA  | Type                | Long range Day/night network camera                                                                                               |
|         | Sensor              | 1/1.8" Sony Exmor CMOS Starvis                                                                                                    |
|         | Resolution          | 1920x1080 / Full HD                                                                                                               |
|         | Focal length        | 6 - 540mm.                                                                                                                        |
|         | F. number           | F. 1,4 - 4,8                                                                                                                      |
|         | HFOV                | 59°- 0.8°                                                                                                                         |
|         | Zoom factor         | 90X                                                                                                                               |
|         | 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       | 30fps.                                                                                                                            |
|         | Shutter speed       | 1/3 - 1/30,000 Sec.                                                                                                               |
|         | Image settings      | WDR, HLC, BLC, AWB, Optical defog, turbulence mitigation, EIS                                                                     |
|         | Digital zoom        | 4X                                                                                                                                |
| 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%)                                                                                                                    |
|         | 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              | 11.9Kg.                                                                                                                           |
|         | Size                | 195x72x70mm. / 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 0,01 Lux.

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

## Long Range Zoom Lenses

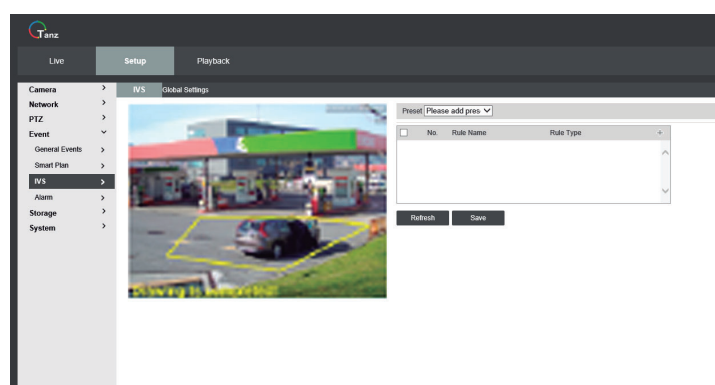
Select from available lens options, all Tanz Security advanced zoom lenses include several zoom motor speeds and moving object tracking, available zoom up to 80X providing narrow FOV small as 0,8°.

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

THCA 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).

## Day and Night - DORI Distances

|                        |                           |         |
|------------------------|---------------------------|---------|
| Human target 1,8x0,5m. | DORI distances for 540mm. |         |
| Detection              | <div></div>               | 4.889m. |
| Observation            | <div></div>               | 1.940m. |
| Recognition            | <div></div>               | 977m.   |
| Identification         | <div></div>               | 488m.   |

\* 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

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

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