TCID2 / TCID3 / TCIS6 / THC6 / THC7
Compact Series System Overview

Tanz™



CRITICAL INFRASTRUCTURES

BORDER SECURITY **COASTAL SECURITY**

DETECT-ACT

System Overview

Tanz Security Compact Size series are small footprint yet powerful solution for various applications. The series include 5 different models with multiple advanced features. Designed in aluminum casting or SUS316 stainless steel housing, suitable for harsh environment installations or deployments where a ruggerized system is needed, such as armored vechiles and similar applications.

TCID2: Compact PTZ including mid range infrared LWIR sensor and D/N sensor.

TCID3: Compact multisensor PTZ camera including infrared LWIR sensor, D/N sensor, laser illuminator and optionally a laser range finder.

TCIS6: Compact single sensor PT camera including D/N camera.

THC6: Compact single sensor PT camera including infrared LWIR camera.

THC7: Compact PTZ including mid range D/N camera and laser illuminator.

DAY/NIGHT SENSORS	LONG WAVE SENSORS	LASER ILLUMINATOR	LASER RANGE FINDER
1920x1080/2 megapixel 2688x1520/4 megapixel 3840×2160/8 megapixel	640x512 1280x1024	1000m. 2000m.	2000m. 4000m. 8000m.
High performance Long / Mid range distance High performance night vision	High performance Long / Mid range distance High performance 24/7 vision	High performance Long / Mid range distance Day/Night sensor support	High performance Long / Mid range distance System data support Direct data in OSD Helios C2 data

System Overview

DAY/NIGHT

1920x1080/2688×1520/3840×2160
3µm. pixel
Up to 0,001 Lux
Zoom/Autofocus

Standard analytics / Advanced AI analytics
Optical video stabilization / Digital video stabilization
Onvif/Profile S/Ethernet
Near Infrared video / Optical defogging

FOCAL LENGTH	RESOLUTION	HFOV	STABILIZATION	DETECTION	RECOGNITION	IDENTIFICATION
3,8-13,4mm.	8mp.	25º	EIS	483m.	95m.	47m.
4,7-141mm.	2mp.	2º	EIS	1.999m.	399m.	199m.
4.8-48mm.	8mp.	6,6º	EIS	1.326m.	265m.	133m.
7-300mm.	2mp.	1º	EIS	2.933m.	586m.	293m.
6,5-240mm.	4mp.	1,8º	EIS	3.311m.	662m.	311m.
6-180mm.	8mp.	2º	EIS	3.849m.	1.057m.	486m.

* TCIS6 Series is suitable for 3.8-13.4mm., 4.8-48mm. and 4.7-141mm. zoom optics.
* Day Imager- 1000 lux illumination and target contrast of 20%. Probability 50%.

INFRARED

1280x1024 / 640x512
12µm. pixel
<35mK.
Athermal / Fix focus

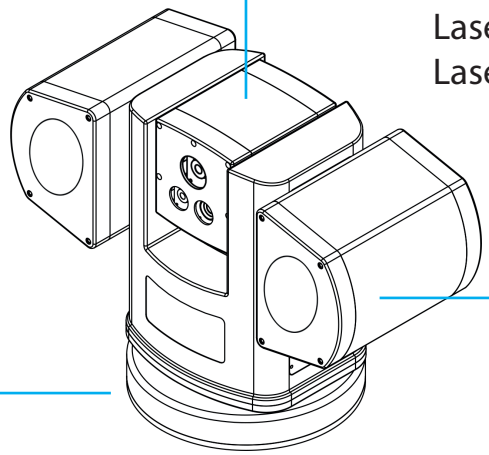
Standard analytics / Advanced AI analytics
Digital video stabilization
Onvif/Profile S/Ethernet
Real time video

FOCAL LENGTH	RESOLUTION	HFOV	STABILIZATION	DETECTION	RECOGNITION	IDENTIFICATION
13mm.	640x512 / 1280x1024	32,9º / 61,5º	In 1280x1024	542m./1.661m.	135m./415m.	68m./208m.
19mm.	640x512 / 1280x1024	22,9º / 44º	In 1280x1024	792m./2.428m.	198m./607m.	99m./303m.
25mm.	640x512 / 1280x1024	17,5º / 34,1º	In 1280x1024	1.042m./3.194m.	260m./799m.	130m./399m.
35mm.	640x512 / 1280x1024	13º / 24,8º	In 1280x1024	1.458m./4.472m.	365m./1.118m.	182m./559m.
55mm.	640x512 / 1280x1024	8º / 15,9º	In 1280x1024	2.292m./7.028m.	573m./1.757m.	286m./878m.
75mm.	640x512 / 1280x1024	5,9º / 11,7º	In 1280x1024	3.125m./9.583m.	781m./2.396m.	391m./1.198m.

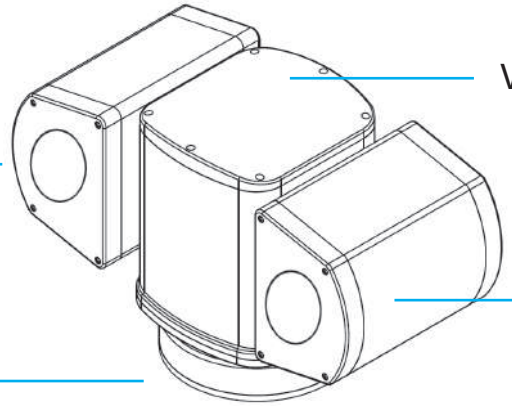
* Different weather conditions and temperature changes may affect to final distances, the stated distances are references.
* Johnson´s Criteria / Thermal Imager- 2^{0} temp difference & σ=0.2 km^{-1} atmospheric attenuation factor.
* Tanz Security reserves the right to change products or specifications without notice.

System Overview

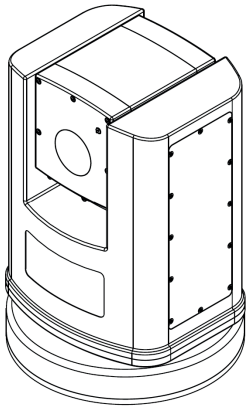
TCID3 Series



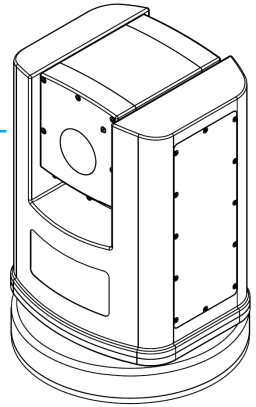
TCID2 Series



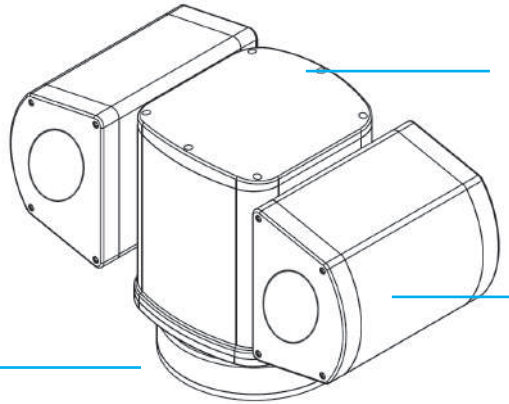
THC6 Series



TCIS6 Series



THC7 Series



* Optional

System Compatible Options

LASER ILUMINATORS

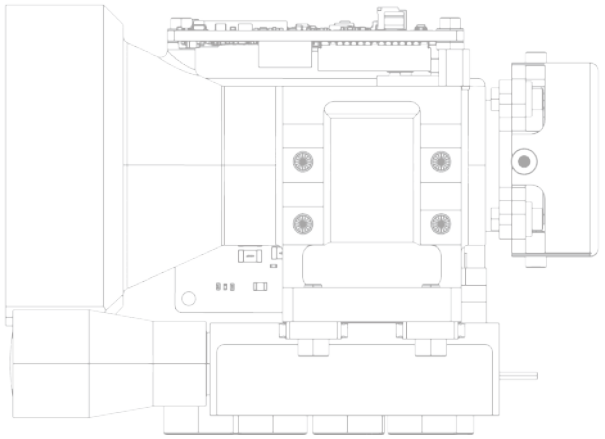
- **1Km.**
- **2Km.**

808nm. wavelength
Over 2Km. distance
-35ºC. cold start
Zoom/collimator

LASER RANGE FINDER

- **2Km.**
- **4Km.**
- **8Km.**

Eye safe
Human/NATO/drone detection



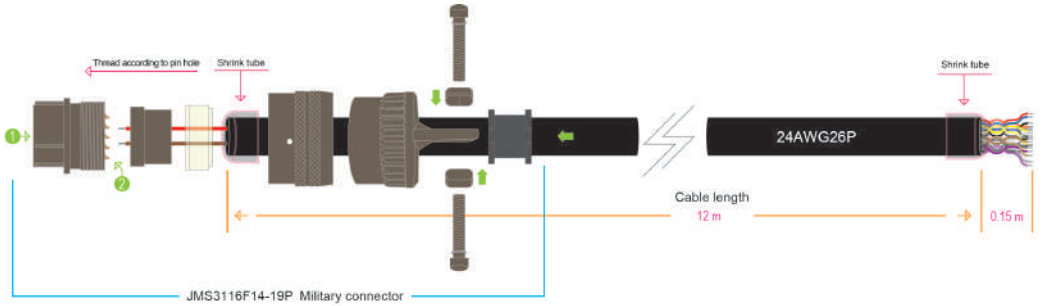
Compatible Options

LITE PAN/TILT

"U" Compact type pan/tilt unit
Light payload
Azimuth 360º continuous
Elevation +90/-90º*
Max./Min azimuth speed 0,1-80º/sec.*
Max./Min elevation speed 0,1-40º/sec.*
Waterproof IP66
Absolute encoders (pan and tilt)
Military connectors*



* Depending in the payload weight the speed shall be adjusted.
* Military connector and cable only upon demand.



SYSTEM TECHNICAL FIGURES / INCLUDED

Electric: 24v.DC/4A. (110-220v.AC Industrial grade power supply included)
System weight without cameras: Depending the selected model
System cable connnections: 10m. connection cable, waterproof/UV light ready*
PT system main connection cables: Ethernet LAN + RS485

Advanced Capabilities

SYSTEM ADVANCED CAPABILITIES

ARTIFICIAL INTELLIGENCE

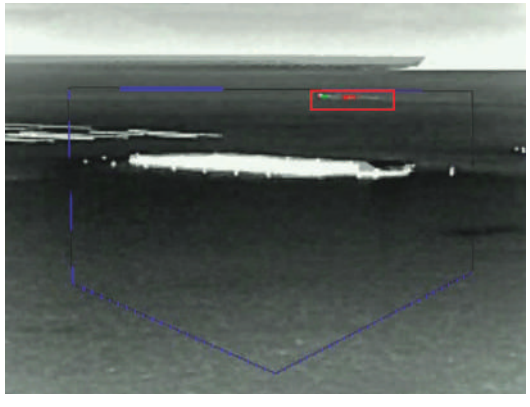
Aritficial Intelligence and Advanced video analytics are designed to protect critical facilities, large protected areas, border control or military facilities from possible threats. Tanz Security video analytics are advanced algorithms capable to detect intrusions in very long distances and with very low false alarms.

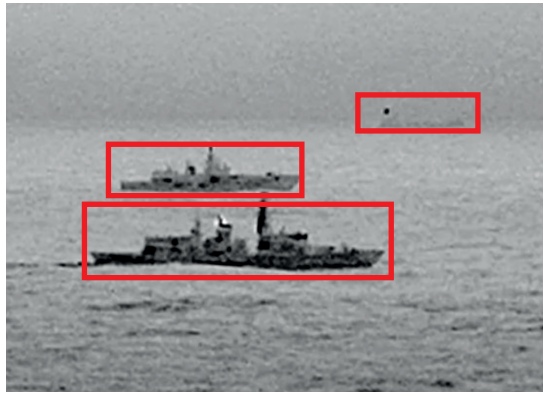
Avoid false alarms caused by white-listed objects into a controlled scenario. Tanz video analytics are able to determine and follow complex rules to avoid the usual analytics false alarms.

Tanz analytics are dedicated to specific type of video images. Differentiating color video and thermal video differences with specific algorithms for each type. This provides Tanz analytics a superior performance.

Thanks to the advance design of the software, we can protect areas located in far distances, and once a threat is detected make slew to cue tracking of the moving object.

The advanced analytics can implement AI (Artificial Intelligence) to classify and detect military vehicles, vessels, soldiersand other specific targets. The system includes a deep learning engine to teach the system tailored object detection.

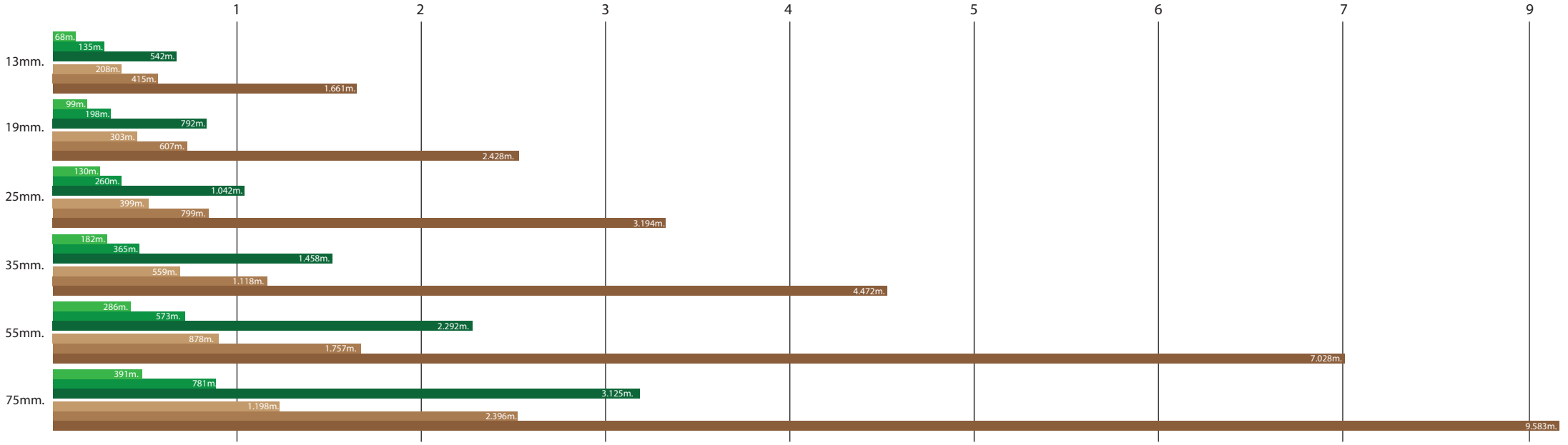






DRI Capability

DRI DISTANCES



* Different weather conditions and temperature changes may affect to final distances, the stated distances are references.
* Johnson´s Criteria / Thermal Imager- 2^{0} temp difference & σ=0.2 km^{-1} atmospheric attenuation factor / Probability 50%.
* Check lenses, sensors and options to define Compact Series proper configuration.
* AI/Deep learning/Object classification / Video Tracker and advanced features with HELIOS C2
* Tanz Security reserves the right to change products or specifications without notice.
* Tanz Security and Helios C2 brands and logos are registered trade marks.

Advanced Capabilities

HELIOS C2 / COMMAND AND CONTROL

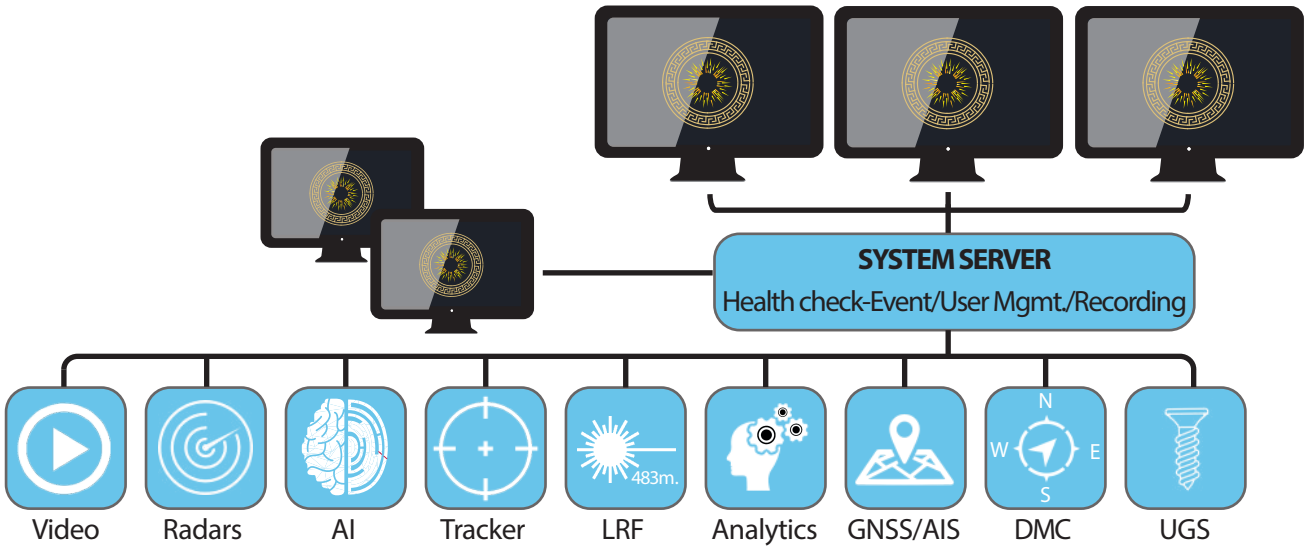
Tanz Security HELIOS Command and Control advanced multisensor control system, is designed to provide a highly-customizable, user-friendly environment for security and surveillance applications.

Its strength is its ability to control virtually any number and combination of Tanz network opto-electronics and multiple 3rd. party sensors, such as ground and marine radars, digital compass, laser range finders, UGS, AIS, GNSS, drone video cameras, and virtually any other sensor required.

HELIOS is a software-based perimeter protection platform that combines video, thermal imaging, radars and other sensors to detect perimeter intrusion. It can be configured to meet challenging requirements and supports multiple display monitors.

Advanced features for surveillance

- Multisensor pan/tilt control
- LWIR/MWIR/SWIR/Day-Night management
- GNSS/DMC/AIS/LRF/UGS data input
- Geo maps for situational awareness
- Virtual security areas/perimeters
- PIP video
- Video autotracker, automatic or manual
- Slew-to-cue tracking capability
- AI analytics (Human, vehicles, drones, vessels ...)
- Video analytics
- Distant target geo-position calculation
- Panoramic view for situational awareness
- System connection tree
- Detection/alarms/analytics data base reports
- Multi-screen / TV wall support
- Client/Server architecture



* HELIOS C2 / HELIOS COMMAND AND CONTROL are Tanz Security trade marks.

VMS Compatibility

WIDE VMS COMPATIBLE OPTIONS

Tanz Security systems are integrated with several C2 platforms (Command and Control), also available compatibility with commercial VMS platforms.

Luxriot, milestone, AVIGILON, NetworkOptix, AXIS COMMUNICATIONS, CATHEXIS, PELCO a Motorola Solutions Company, MIRASYS, Genetec, AXXONSOFT, digifort, VAST VIVOTEK, exacq Technologies, SeeTec Cayuga, aimetis, VICON, Hanwha Techwin WISENET, IndigoVision a Motorola Solutions Company, DELTA, Cognyte, obseron, ISS, eocortex

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NATO OTAN

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