

TrakkaCam® TC-300





A NEW-GENERATION OF COMPACT HIGH PERFORMANCE MULTI SENSOR SURVEILLANCE SYSTEMS

Ideally suited for a variety of airborne missions, including law enforcement, search and rescue, civil protection, military ISR and force protection, fire detection and mapping, as well as manned and unmanned platforms and installations.

TRAKKA SYSTEMS TC SERIES

The new TC series from Trakka Systems features advanced technology in an ergonomic industrial design that sets new standards for compact, high-performance, multispectral imaging in a non-ITAR single-LRU configuration.

The EO/IR sensors are augmented with sophisticated image processing, allowing users to see through conditions such as fog, haze, low light, and total darkness. Image blending provides the ability to exploit imagery from the different sensors and extract details that would otherwise go undetected by a single sensor. A host of image processing features to improve operator performance and reduce workload, such as Moving Target Detection (MTI), are embedded right into the system.

The TC-300 has enhanced interfaces that provide easy integration with 3rd party equipment. Unlike competing imagers, the TC-300 integrates advanced features like dual-stream H.264/H.265 video with KLV metadata over ethernet right into the system, removing the need for external encoders and enabling simplified integration with Moving Map and datalink systems.

The TC-300 enables operators and command centers to share mission-critical information in real-time while providing enhanced situational awareness via augmented reality overlays or pure synthetic views.

KEY BENEFITS

- Performance better than 10" competitors, and approaching that of bigger systems, but at lower price / lower mass
- Advanced sensors, superior in size class:
 - Available with a full suite of 7 payload options: (IR, HDTV, LRF, LP, LI, A/T, IMU/GPS)
 - Continuous optical zoom on all imaging channels for maximum situational awareness
 - Best-in-class narrow FOVs, no need for separate spotter scopes
 - Open upgradeable architecture for incorporation of new technology sensors
- The advanced real-time digital HD image processing engine is embedded in gimbal and requires no additional electronics unit
- Moving Target Detection (MTI) embedde directly into the system
- High performance 4-axis active gyro stabilization with integrated 6-axis passive isolation for superior image stabilization
- Fully integrated IMU/INS providing Geo Location and Geo Hold, with easy Moving Maps integration
- Innovative and ergonomic system design provides flexible platform and installation options
- Compact Single-LRU configuration is easy to install, integrate and requires no junction box
- Non-ITAR exportable product
- RTCA D0-160 Tested for Environmental, Electromagnetic and Mechanical compliance, and capable of withstanding the harshest environments

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TC-300

CIMBAL SPECIFICATIONS

GIMBAL SPECIFICATIONS			
Weight	~22kg (48.5 lb)		
Diameter	300mm (11.8")		
Azimuth	Continuous Azimuth		
Elevation	+20° to -120° Elevation (+90 Stow)		
Stabilization	4 axis, active gyro-stabilization with integrated 6 axis passive isolati		
THERMAL IMAGER			
Туре	3-5µm MWIR array		
Resolution	640x512 (1280x720 Optional)		
Fields of View	30° to 1.28° (HD Option 40° to 2.4°), continuous zoom		
Sensor Type	Cooled		
COLOR HDTV			
Туре	HD CMOS Global Shutter		
Resolution	3.2 MPixels		
Fields of View	24.9° to 0.63°, continuous zoom		
LASER RANGE FINDER (OPTIONAL)			
Wavelength	1535 nm, Eye-safe		
Range	12km (20k Optional)		
Repetition Rate	0.5 Hz or Single-Shot Modes		
LASER POINTER (OPTIONAL)			
Туре	Class 3B		
Wavelength	830nm		
Output Power	80mW		
LASER ILLUMINATOR (OPTIONAL)			
Туре	Class 3B		
Wavelength	860nm		
Output Power	450mW		
ELECTRICAL REQUIREMENTS			
Max power	320W Maximum Power		
Steady State Power	100W Steady State		
Input Voltage	22-36V Wide-Range Input Voltage		
OPTIONS			
Interface Types	SMPTE HD video outputs and H.264/H.265 over Ethernet (MISB 0601.7 Compliant), RS422, RS232		
Functional Interfaces & Features	Auto Tracking, Geo-Location with integrated IMU/INS, Interface to Aircraft INS/GPS, Metadata, Moving Maps & Augmented Reality, Remote Control, Search-light Slaving, Radar Slaving, Data Links & Video Downlinks		



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FEATURES

• Picture in Picture / Split screen

 Moving Target Indicator (option) Object Tracking / Scene Tracking Modes (option)

Digital Contrast

- 4x Electronic Continuous Zoom
- Graphical On-Screen . Display for Intuitive Operation

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Standards

MIL-STD 461, MIL-STD 810, RTCA DO-160



Note: All FOVs are 720p . This information is provided for reference only. Specifications are subject to change without notice. Copyright and all rights reserved. 05162023

