

# TrakkaCam<sup>®</sup> TC-300G-S



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

**Ideally suited for a variety of air, maritime and land missions including law enforcement, search and rescue, civil protection, military ISR and force protection, 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-300G-S has enhanced interfaces that provide easy integration with 3rd party equipment. Unlike competing imagers, the TC-300G-S integrates advanced features like dual-stream H.264 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-300G-S 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
- 4-axis active gyro stabilization with integrated 6-axis passive isolation for superior image stabilization
- 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
  - Choice of MCT or InSb thermal imagers
  - 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) embedded directly into the system
- Fully Integrated IMU/INS with dual GPS capability for static navigation operations
- Compact Single-LRU configuration is easy to install, integrate and requires no junction box
- Non-ITAR exportable product
- MIL-STD & IP66 Tested for Environmental, Electromagnetic and Mechanical compliance, and capable of withstanding the harshest environments



# TC-300G-S

## GIMBAL SPECIFICATIONS

Weight	~20 kg (44 lb)
Diameter	300mm (11.8")
Azimuth	Continuous Azimuth
Elevation	+120° to -20° Elevation
Stabilization	4 axis, active gyro-stabilization with integrated 6 axis passive isolation

## THERMAL IMAGER

Type	3-5µm MWIR array
Resolution	640x512 (1280x720 Optional)
Fields of View	27° to 1.3° (HD Option 40 to 2.4), Continuous Zoom
Sensor Type	Cooled

## HDTV CAMERA

Type	HD CMOS
Resolution	2.37 MPixels
Fields of View	35° to 1.3°
LLTV Mode	Yes

## LASER RANGE FINDER (OPTIONAL)

Wavelength	1535 nm, Eye-safe
Range	12km (20km Optional)
Repetition Rate	1 Hz or Single-Shot Modes

## LASER POINTER (OPTIONAL)

Type	Class 3B
Wavelength	830nm
Output Power	80mW

## LASER ILLUMINATOR (OPTIONAL)

Type	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 over Ethernet (MISB 0601.7 Compliant), RS422, RS232
Functional Interfaces & Features	Auto Tracking, Geo-Location with integrated IMU/INS, Metadata, Moving Maps & Augmented Reality, Remote Control, Searchlight Slaving, Radar Slaving, AIS and other NMEA 0183 Interfaces, Data Links & Video Downlinks

## ENVIRONMENTAL

Standards	MIL-STD 461, MIL-STD 810, RTCA DO-160, IP66
-----------	---

Note: All FOVs are 720p



## FEATURES

- Moving Target Indicator (option)
- Object Tracking / Scene Tracking Modes (option)
- Digital Contrast Enhancement
- Local Area Contrast Processing
- Edge Sharpening
- Image Noise Reduction
- Picture in Picture / Split screen
- 4x Electronic Continuous Zoom
- Graphical On-Screen Display for Intuitive Operation

### Trakka Corp Pty Ltd

23 Kilpa Road, Moorabbin  
Victoria 3189 Australia  
Phone: +61 3 9553 3000

### Trakka Systems AB

Stationsvägen 46  
640 43 Ärla Sweden  
Phone: +46 16 708 60

### Trakka USA LLC

4725 Lena Road, Unit 103  
Bradenton Florida 34211, USA  
Phone: +1 941 500-5158

[trakkasystems.com](http://trakkasystems.com)  
[info@trakkasystems.com](mailto:info@trakkasystems.com)

