The Lycos Long Range Precision Tracking System is specially designed to provide best-in-class tracking of targets at long range. The system provides high-definition EO/IR cameras with simultaneous video output for the detection, recognition and identification of targets at any time day or night.

The system’s modular design is ideal for applications requiring high accuracy and precision, such as Counter-UAS, trajectory analysis, and weapons scoring. The rugged design provides high performance in extreme heat and reliability regardless of environment.

Leveraging 30+ years of system integration experience, Moog has successfully deployed thousands of systems in various configurations to support critical requirements worldwide for military and commercial applications.

**KEY FEATURES**

- Simultaneous high-definition imagery utilizing visible and thermal cameras with industry-leading imaging processing
- High performance direct drive motion system provides optimal tracking performance of slow and fast moving targets
- Real-time, precise output of position angles and range (with optional LRF) to target
- Rugged design excels in harsh environments
- Network based design and available SDK provides easy integration with other sensor platforms
- Supports simultaneous output of HD-SDI and network video
- Optional equipment available to meet your mission needs: Laser Range Finder, Command/Control Interface
- Optional Command and Control Interfaces
- Turbulence Mitigation
- Local Area Contrast Enhancement
- High Accuracy Threat Tracking
LYCOS® LONG RANGE HD PRECISION TRACKING SYSTEM

SYSTEM PERFORMANCE

Features:
- High performance real-time optical tracking
- High performance tracking of slow and fast moving targets
- Precision motion control for high accuracy applications
- Dual simultaneous HD video output
- Designed for uninterrupted operation in extreme environments

THERMAL CAMERA PERFORMANCE SPECIFICATIONS

Features:
- MWIR cooled 200 to 1200 mm continuous zoom
- HD Resolution
- Turbulence mitigation
- Local area contrast enhancement
- Electronic image stabilization
- High-speed auto focus

Visible Camera Performance Specifications

Features:
- 16.7 to 2000 mm continuous zoom
- Selectable 2x extender
- HD Resolution
- Optical image stabilization optional
- Exceptional low light performance
- High-speed autofocus
- Filters: Visible cut and Neutral Density

VIDEO TRACKING SPECIFICATIONS

Features:
- Multi-Algorithm Tracking, Located within Positioner
- Selectable Edge, Mass and Intensity Centroid, Vector and Correlation Tracking Algorithms for target variability
- Multi-Target Detection, Acquisition and Track
- Robust Intrusion Detection, Coast and Target Recovery
- Advanced Motion Compensation Filter
- Zoom Lens Scaling and Correction
- User Text Annotation and Graphics

50% Probability DRI; Target 2 degree delta T vs background; Clear Atmosphere/Low Turbulence. Actual range performance may vary based on a number of conditions.

Specifications are subject to change, to confirm current call +1 847.498.0700.

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