

LYCOS®

LONG RANGE HD PRECISION TRACKING SYSTEM



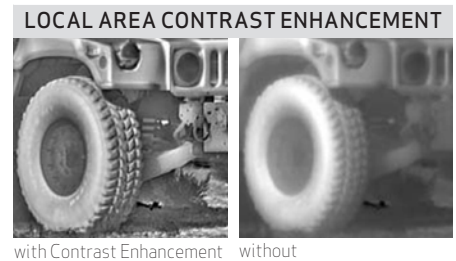
The Lycos Long Range Precision Tracking System is specially designed to provide best-in-class tracking of targets at long range. The system provides high-definition EO/IR cameras with simultaneous video output for the detection, recognition and identification of targets at any time day or night.

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.

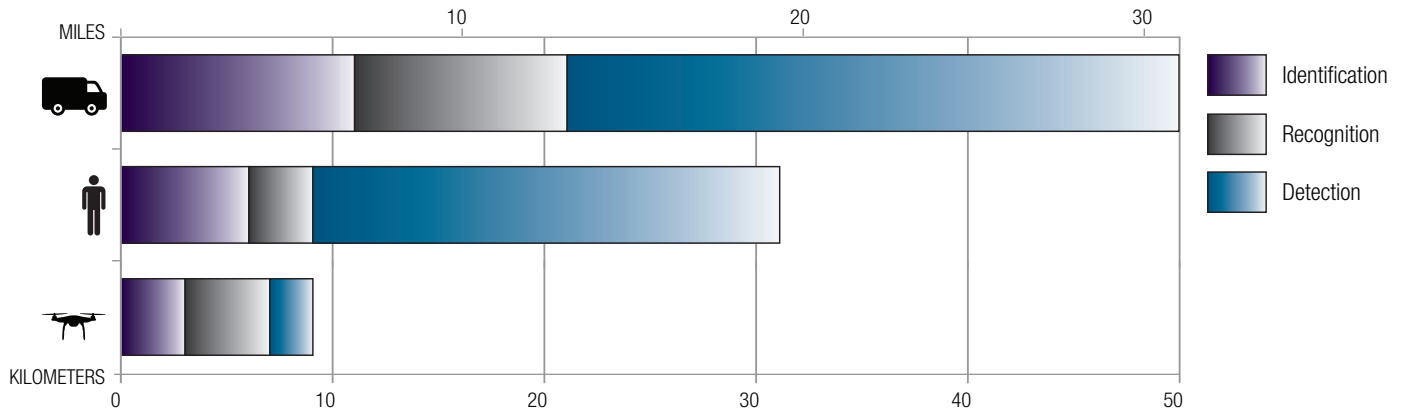
KEY FEATURES

- 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

LYCOS® LONG RANGE HD PRECISION TRACKING SYSTEM



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.

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

Operating Voltage Range	115/230 VAC (48 VDC option available) Remote power on/off, separate IP address
Operating Power	750 Watts (nominal)
Azimuth Position Range	360° continuous rotation
Azimuth Velocity and [Acceleration]	0.005° to 100°/sec [100°/sec ²]
Elevation Position Range	± 90° from Horizon
Elevation Velocity and [Acceleration]	0.005° to 60°/sec [60°/sec ²]
Operating Temperature	-40° to +60°C (-40° to +140°F)
Storage Temperature	-40° to +70°C (-40° to +158°F)
Positioner Resolution	26-bit encoder
System Control	IP Network-based Interface
Video Compression and Streaming	Dual Simultaneous HD Compression
GPS Positioning	Standard commercial GPS included, please contact for military-grade options
Laser Range Finder	Optional
Available Colors	Desert Sand, custom colors available upon request
Environmental Qualifications	MIL-STD-810G, IP66

VIDEO TRACKING SPECIFICATIONS

Video Tracking	<ul style="list-style-type: none"> • 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
----------------	--

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

Sensor Type	Cooled MWIR InSb Reticulated
Focal Length/Lens	220 to 1200 mm; F5.0
Sensor Size	1280 x 1024 pixels, 15 µm pitch
Spectral Band	3.6 to 5.0 µm with CO2 notch
Wide FOV	200 mm (5.5° x 4.4°)
Narrow FOV	1200 mm (0.9° x 0.7°)
Features	Local area contrast enhancement, auto focus, electronic image stabilization, turbulence mitigation, super resolution, scene-based NUC
Video Output	1080p30 or 720p60

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

Sensor Type	1/1.9 in CMOS Sensor
Lens	F3.5 to 32
Wide FOV	Without extender: 16.7 mm (24.33° x 13.83°) With extender: 33.4 mm (12.16° x 6.94°)
Narrow FOV	Without extender: 1000 mm (0.41° x 0.23°) With extender: 2000 mm (0.21° x 0.12°)
Features	One-push high speed auto-focus, Filter wheel (ND, Visible Light cut filter to enhance low-light), optical image stabilization optional
Video Output	1080p30

This product is subject to export control laws and regulations of the United States government and fall under the control jurisdiction of ITAR regulations. Please contact our company Export Representative at +1-716-687-4930 for additional export information.

MOOG

+1.847.498.0700 | +1.321.435.8722 | www.moogS3.com | s3insidesales@moog.com



MoogSpace and Defense



@MoogSDG



@MoogSDG



@MoogSDG



@MoogInc