



SightLine object trackers are powerful tools for any ISR application. Tried and tested, these trackers have over one million flight hours logged. Highly configurable, SightLine trackers can be tailored to meet mission requirements.

- **Vehicle and Stationary Modes:** Solid designated tracks on moving and non-moving objects
- **Scene Tracking:** Powerful, intuitive mode to keep the entire scene in the frame using scene translation telemetry. Essential for gimbals as a base mode and fallback from object trackers.
- **Drone Tracking Mode:** Robust tracking of objects with the complicated motion dynamics of a multicopter. Applicable for air-air and ground-air C-UAS implementations.
- **No Registration Mode:** Used to track objects when there are no background features (for example: trying to track an airplane against a blue sky).
- **Customizable Track Box Size, Nudge, Track through Zoom, and Rotation:** Operational and setting flexibility for improved tracker performance.
- **Acquisition Assist:** Automatically searches the area around an initial track location to find the optimal track box size and position. Allows users to easily select fast moving objects.
- **Intelligent Assist:** Automatically reinitialize (and optimize track box location and size) on targets when changes in the target appearance are detected.
- **Detection Track Cueing:** Transition a detection to a primary track (example: aerial MTI detection to vehicle object track).
- **Tracker-Only Configurations:** Tracker-Only options on 1500 hardware provide full tracker functionality at a lower price point (with limitations on other functions).

Tracker Configurations

Comparing the tracker configurations in the table below, you can see that maximum system flexibility is provided using the traditional SLA configuration. Tracker-Only configurations provide an excellent solution for customers who need a robust object tracking algorithm and telemetry data, but do not need other video processing functionality. Because the tracker runs on the same low SWaP 1500-OEM and 1500-SOM hardware, units can be easily upgraded to SLA functionality.

Attribute	Tracker-Only Options		
	SLA	Advanced	Base
Tracker Modes Supported	Vehicle Stationary Scene No Registration Drone	Vehicle Stationary No Registration	Vehicle
Maximum Number of Simultaneous Tracks	5	1	1
Frame Size Processed	HD or SD	SD	SD
Track Box Size Adjust	✓	✓	✓
Track Box Nudging	✓	✓	✓
Track through Zoom and Rotation	✓	✓	
Acquisition Assist	✓	✓	
Intelligent Assist	✓	✓	
Scene Tracking (aka Scene Steering and Scene Lock)	✓		
Detection Track Cueing (with separately purchased detection functions)	✓		
Hardware platforms Supported	1500, 3000	1500	
Other Video Processing Functions can be added to the unit. <i>See the Video Processing Software sheet for more information about image processing functions.</i>	All SightLine software functions can be added	None. Functions limited to tracking only. <i>Units can be updated beyond Tracker-Only configurations to SLA via license file purchase.</i>	