PRECISION TRACKER

Micro-Doppler Radar and Positioner

Precision Tracker from Observation Without Limits reliably detects, tracks, classifies, and enables response to drones/unmanned aircraft systems (UAS) -- all in real time at significant ranges.

Whether the mission is basic situational awareness or deployment of integrated counter-UAS (CUAS) systems, Precision Tracker detects and collects data on suspected drones when cued and slewed by long-range 3D surveillance radars, then provides real-time tracking and classification for discerning birds from drones, maintaining tracks on drones in hover mode, triggering CUAS counter-measures, and otherwise supporting drone security operations.

TECHNICAL SPECIFICATIONS
Precision Tracker*

Processing Type:	Pulsed Doppler	**Class 1 Drone Skin Return Detection Range:**	>5 km
Frequency Band:	X	**Physical Size:**	24x24x10 in. 61x61x25.4 cm
Azimuth Bandwidth:	6˚ (+ and -3˚)		
Elevation Bandwidth:	6˚ (+ and -3˚)	**Physical Weight:**	<65 lbs. / <29.5 kg
Azimuth Accuracy:	0.25˚ Std. Dev.	**Power Consumption**	100 W
Elevation Accuracy:	0.25˚ Std. Dev.	**Built-in Camera:**	Sony 7520
Range Accuracy:	5 m	**Optical Zoom:**	30x
Class 1 Drone Micro-Doppler Detection Range:	>2.5 km	**Digital Zoom:**	12x
		Auto Focus Focal Length:	4.3mm (wide) 129mm (narrow)

* Size/weight/power for Precision Tracker only; does not reflect requirements for positioner, camera, etc.

Quickset MPT-90 Positioner*
Model 8-PC163

Pan Range of Motion:	360˚ continuous rotation	**Tilt Speed Range:**	0.005 - 8.0˚/sec
Pan Speed Range:	0.005 - 25.0˚/sec	**Repeatability:**	0.05˚

*System can be integrated with different camera options to include both thermal and visible sensors.

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2D & 3D DIGITAL RADAR
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