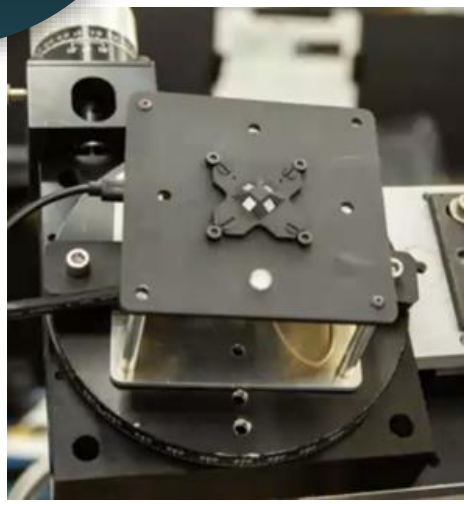
Argus-MT1 wide FOV Laser Pulse Angle of Arrival (AoA) Sensor

NANOHMICS

Detect and Geolocate CW and Pulsed Laser Threats

The Argus-MT1 prototype is a near hemispherical laser threat warning sensor that determines AoA for both CW and pulsed laser sources.

- Counter Directed Energy (DE) weapons
- Suitable for space, airborne and attritable platforms
- Detects designators, range-finders and DE threats
- Enables geolocation for countermeasures and counterfire

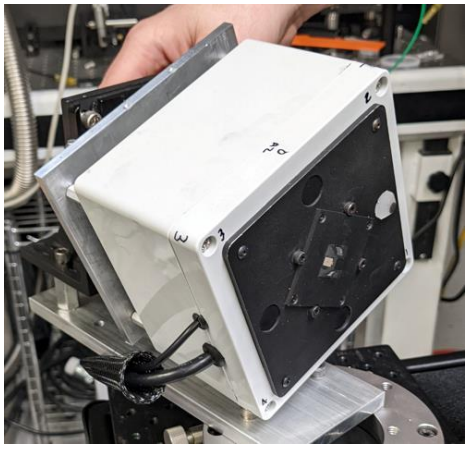


SYSTEM OVERVIEW

Argus-MT1 System	
Size	70 mm x 70 mm x 26.3 mm
Weight	< 2 lb
Power	< 4 Watts

Argus Laser AOA Cueing	Gen1 (2020)	Gen2 (planned)
Spectral sensitivity	0.8-1.7um	0.8-1.7um
Threat types	CW/HEL, Pulsed (LTD,LRF)	CW/HEL, Pulsed (LTD,LRF,**P-LBR,C-LBR**)
Angle of Arrival (AoA) accuracy	<5°	**<3°**
Angle of Arrival (AoA) precision	<1°	<1°
Field of regard	360° az, 15° to 75° el	360° az, **5° to 90° el**
Input power	5VDC	5VDC
External Trigger Interface	5V TTL	5V TTL
Comms Interface	USB to PC host	**MOSA ready**

Laser Pulse Trigger	Gen1 (2020)	Gen2 (planned)
Field of regard	up to hemisphere	up to hemisphere
Threshold sensitivity	500mW/cm2	**100mW/cm2**
Minimum pulse duration	100ns	**15ns**
Triggering, pulse rate sensitivity	1Hz-20kHz	**1Hz-25kHz**
Digital reporting, pulse rep rate range	1Hz-4kHz	**1Hz-20kHz**
Digital reporting, pulse width resolution	4us/bit	**100ns/bit**
Response time	<10us AoA trigger	**<5us AoA trigger**



Low SWaP-C Multi Threat Detection

The Argus prototype traces rangefinders, designators and DE weapons back to the source. Future capabilities include beam-rider and low probability of Intercept (LPI) threat reporting with pulse and wavelength characterization.

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