

# AQUILA

RADAR BASED SEEKER & FUZE

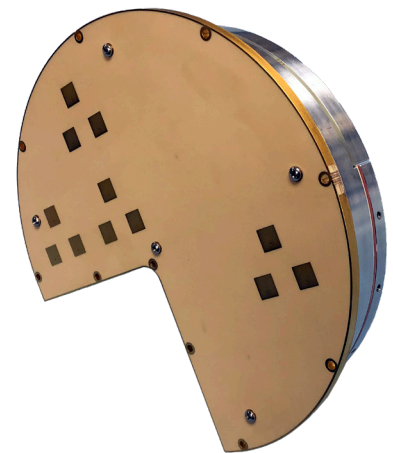
Autonomous guidance  
targets via direct  
flight control

Tracks and discerns  
multiple targets

**Aquila is a radar sensor designed specifically to meet the SWAP-C constraints of tactical UAS and is based on TRL-9 technology and provides radar seeker functions for loitering munitions.**

Aquila supports air-to-air engagements and is specifically tuned to engage Group 1 UAS in support of the counter-UAS mission. Aquila provides target range, rate, azimuth, and elevation to the host UAS's flight control system to guide the UAS to the target.

Aquila uses multiple adaptive waveforms to track targets at range as well as near in to optimize the end game. Aquila has been demonstrated with both kinetic and non-kinetic effectors against UAS. Aquila has a 1U Modular Payload compliant form factor.



*Aquila Sensor Integrated  
Electronics (Aquila SIG-E)*

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# AQUILA SPECIFICATIONS



Aquila mounted to test platform



Aquila Sensor Integrated Electronics (Aquila SIG-E)

## FEATURES

- X-band, Air-to-Air Seeker
- Optimized for engaging Group 1 UAS targets
- 1U Modular Payload with custom antenna for host UAS
- Current version: TRL 7

## SPECIFICATIONS

<b>Size</b>	6" diameter x 1.35" depth
<b>Weight</b>	1.6 lbs
<b>Power</b>	12W (idle), 110W (active)
<b>Range</b>	1.5-1200m*
<b>Range Accuracy</b>	0.5-10m*
<b>Closing Rate</b>	0-3000m/s*
<b>Closing Rate Accuracy</b>	0.5-25m/s*
<b>Field of View (FOV)</b>	60 degree cone

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