

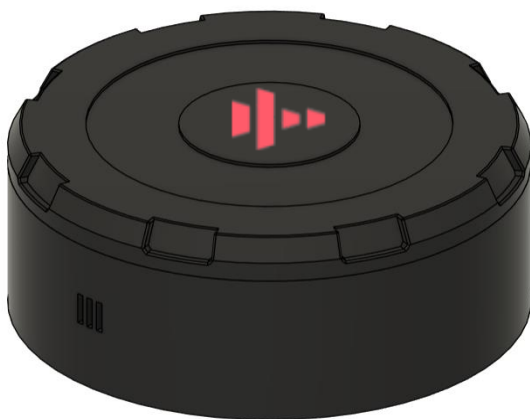
Aura

Acoustic and Unintended Radiation Analysis
Sixth-Sense UAS Detection and Early Warning



DESCRIPTION

AURA is a passive RF system that provides unprecedented UAS situational awareness, with low-cost sensors that detect the unintended emissions from the propeller motors of a diverse range of drones including RF-silent fiber-optic drones. Usage ranges from expeditionary force protection to enduring base security with customizable options and a modular design that reduces cost and increases interoperability.



CUSTOMIZABLE OPTIONS

Material: Anti-reflective coatings and surfaces

Modular Alert Modalities: ATAK integration, LCD screen, IR indicator, audible chirp, or haptic rumble for low signature operations

Networking: Spread Spectrum LoRa for multi-note mesh, or single node (RF-silent)

KEY SPECIFICATIONS

PERFORMANCE

Sensing Range: 1.6km
Detects: sUAS, iUAS, fly-by-wire
Time-To-Alert: under 1 second

DEPLOYMENT

Setup-Time: under 2 minutes
Dimensions: 125mm x 50mm
Power Consumption: ~3 watts

OPERATIONAL

Runtime:

- 72h (200Wh Battery)
- 14 days (Battery + Solar)
- Indefinite (PoE/Wired)

Mesh Range:

- Over 3km (LoRa)

Unit Cost:

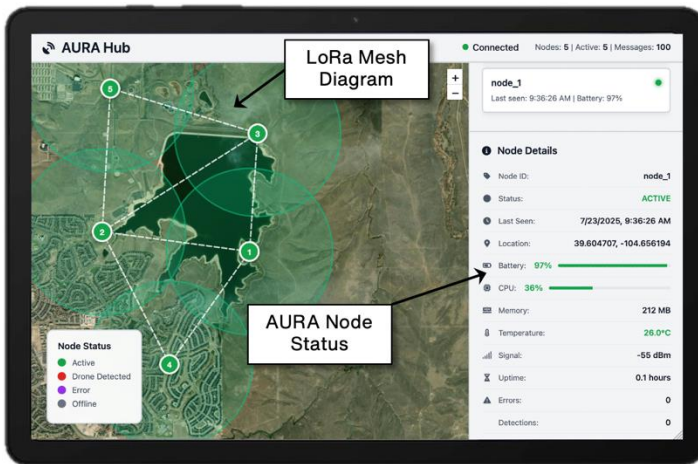
- \$10k at production capacity

Operating Temperature:

- 15°C to 60°C, 4°F to 140°F



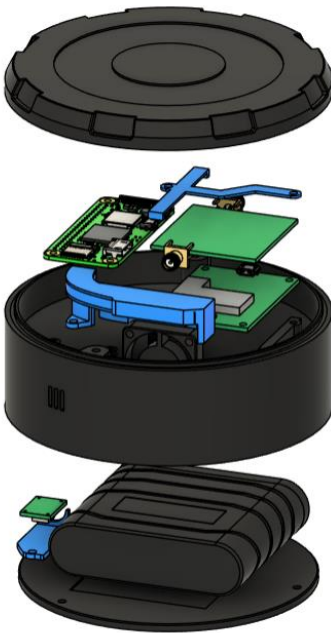
USER INTERFACE



Enables easy deployment and configuration for enduring sites, and rapid perimeter establishment for contingent operations

 Anduril Lattice™ compatible.

DEVICE CONSTRUCTION



Carbon-Fiber Plastic Construction

VLF Magnetic Antenna

Hardened Compute Stack

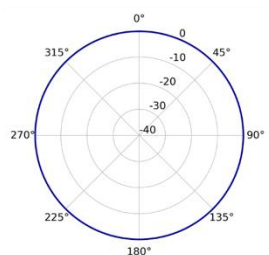
Edge-Optimized Algorithms

Modular Battery Size

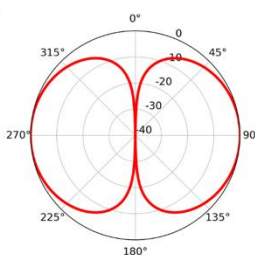
ANTENNA GAIN PATTERN

Provides optimal coverage for early warning of UAS (individual and swarm)

Horizontal (Azimuth) Pattern



Vertical (Elevation) Pattern



3D Gain Pattern

