

BREAKER

AIRSPACE AWARENESS FOR CRITICAL SITES

BREAKER is a fixed-site passive RF sensor designed to provide persistent low-altitude airspace awareness for critical infrastructure, military installations, airports, and urban environments. Combining passive RF detection and direction finding in a single system, BREAKER detects and verifies aerial threats—from uncrewed systems to manned aircraft—while remaining fully passive and undetectable.

Purpose-built for long-term deployment, BREAKER safely co-locates with telecom and aviation infrastructure. Its fully passive design is U.S. Title 18 compliant—requiring no spectrum licensing or RF emissions—supporting continuous airspace awareness for the protection of high-value sites.

[CAPABILITIES]

Fully Passive & Emission-Free

Tracks low-altitude aerial threats while remaining undetectable, enabling decision advantage.

Multi-Modal

Performs RF detection, direction finding, or passive radar within a single sensor, meeting the demands of any mission.

Signal Resilience

Operates in dense, signal-heavy environments, providing clear insight into airspace activity despite noise.

High-Confidence Detection & Tracking

Fully supports FAA remote ID reception, including positional verification using direction finding to minimize false alarms.

Integration Ready

An open architecture streams real-time tracks into command-and-control systems, accelerating coordinated response with mission partners.

Software-Defined

Evolves through remote software updates instead of hardware changes or site visits, staying future-ready against emerging threats.

[BREAKER]



Technical Specifications

PERFORMANCE

PASSIVE RADAR & DF
0.8-6.0 GHz

FIELD OF VIEW
90° Az × 90° El

TRACK ACCURACY
<2° Az · <1° El

TRACK UPDATE RATE
2 Hz

DETECTION RANGE
Passive Radar: 5-30+ km
RF: 7-25 km

SIZE · WEIGHT · POWER

SIZE
23 W × 60 H × 19 D in

WEIGHT
101 lb

POWER
<250 W

POWER INPUT
Standard 100-240 VAC ·
<3 A

INTEGRATION & DATA

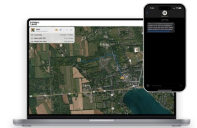
PRIMARY I/O
100 Mbps / 1 Gbps RJ45 Ethernet

RAW DATA OUTPUT
100 Gbps SM LC fiber

OUTPUT FORMAT
GeoJSON-based API

C2 CONTROL
JSON RESTful API

NETWORK
Correlated data is delivered to Hidden Level Display or third-party command-and-control systems.



[DEPLOYMENT OPTIONS]

Fixed-Site

Mount safely to:

Tripods

Poles

Rooftops/Towers

Fixed Infrastructure

[DESIGNED TO MEET INDUSTRY STANDARDS]

TRL-9

TECHNOLOGY READINESS LEVEL

IP66

INGRESS PROTECTION

MIL-STD-810H

SHOCK · VIBRATION · TEMPERATURE

MIL-STD-416G

EMI / EMC

**Hidden
Level**

HIDDENLEVEL.COM

Hidden Level is the world's leading RF intelligent platform, delivering mission-defined hardware and software solutions that combine passive sensing, persistent data, and applied intelligence to help customers and partners address complex safety and security challenges across air, ground, sea, and space.

All specifications are subject to change at any time.
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