

SUGAR V DRONE DETECTOR

AV Advent
Atum

GENERAL OVERVIEW

Sugar V is a COTS 30,000 units sold world-wide in its previous iterations. It is in extensive combat use with the Armed Forces of Ukraine (AFU) and recently adopted by members of the Australian Army for testing.

Sugar V is a compact, field-proven device designed for rapid and reliable identification of UAV threats. It operates by detecting radio emissions from drones and provides realtime alerts, making it an essential tool for security, defence, and situational awareness applications.



APPLICATION SCENARIOS

MILITARY & DEFENCE

Field-proven and deployed in large quantities for battlefield awareness.

SECURITY & SURVEILLANCE

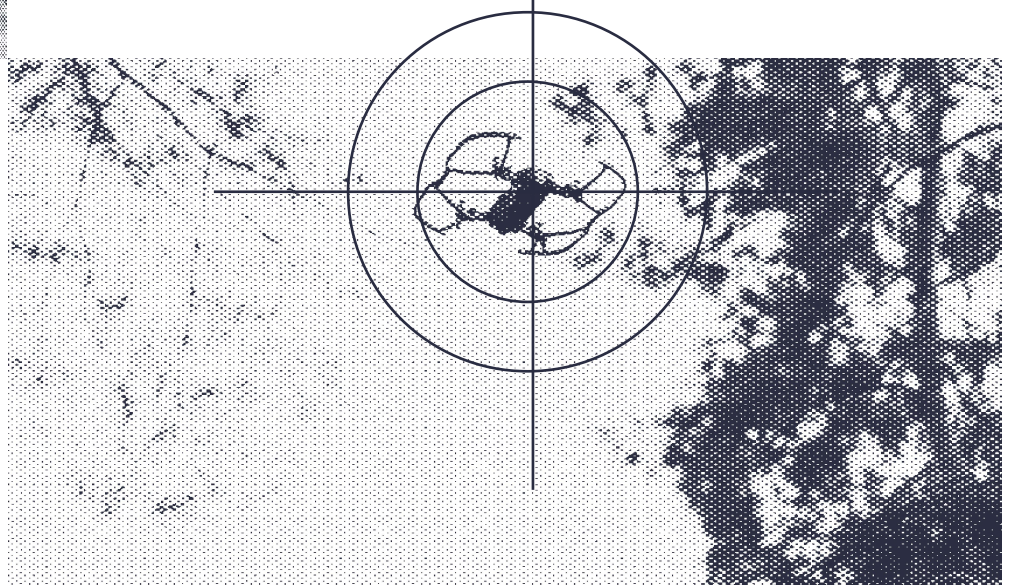
Ideal for protecting critical infrastructure and sensitive locations.

LAW ENFORCEMENT

Assists in counter-drone operations and UAV tracking.

PRIVATE & COMMERCIAL USE

Provides drone monitoring for various security applications.



FEATURES

BROAD FREQUENCY DETECTION

Covers 720–1020 MHz and 2.4–2.5 GHz bands.

MULTI-DRONE IDENTIFICATION

Detects and identifies UAVs such as Orlan, Zala, Lancet, Supercam, DJI Mavic, and DIY FPV drones.

LONG-RANGE DETECTION

DJI: up to 700m

Orlan/Supercam: Up to 15km

Zala/Lancet: Up to 10km, typically 5km

FPV Drones: 5–10km depending on altitude and RC signal proximity

Customisable for other threat categories

FAST REACTION TIME

Detection time under **5 seconds in Paranoid Mode** and up to **25 seconds in Deep Search Mode**.

COMPACT & LIGHTWEIGHT

Small form factor of 7x5x3 cm, weighing only 200g.

AUTONOMOUS OPERATION

Up to 20 hours of battery life using a replaceable 18650 Li-ion battery.

MULTIPLE ALERT METHODS

Notifications via visual (OLED display), haptic (vibration), and sound alarms.

USB INTERFACE

Provides serial terminal access for commands and settings.

REAL-TIME SPECTRUM ANALYSIS

RSSI mode enables users to observe radio spectrum activity.

ROUGH DIRECTION FINDING

Approximate drone direction when used with a directional antenna.

SOFTWARE UPGRADES

Seamless Wi-Fi-based updates ensure continuous improvement and feature enhancements.

ATAK INTEGRATION

Enables seamless operational use within the Android Tactical Assault Kit (ATAK) ecosystem.

SAPIENT PROTOCOL COMPATIBILITY

Allows integration into advanced counter-UAS and battlefield management systems.

CUSTOMISABLE

Can be modified at the user's request to meet specific operational requirements.

TECHNICAL SPECIFICATIONS



Frequency Bands:

720–1020 MHz, 2.4–2.5 GHz

Sensitivity: Optimised for long-range drone detection

Max RSSI: +10 dBm

Max Voltage: +5V

Detection Distance:

DJI: 200–700m

Orlan/Supercam: Up to 15km

Zala/Lancet: Up to 10km, typically 5km

FPV Drones: 5–10km depending on altitude and RC signal proximity

Speed of Detection: <5 seconds (Paranoid Mode), up to 25 seconds (Deep Search Mode)

Size & Dimensions: 7x5x3 cm

Weight: 200g

Power Supply: Replaceable 18650 Li-ion battery

Battery Life: Up to 20 hours of operation

Charging: Via USB

Operating Temperature: Designed for harsh environmental conditions

Alert Methods: OLED display, sound, vibration

Interfaces: USB serial connection

Software Updates: Enabled via Wi-Fi

CONTACT INFORMATION

Andrew Wilson, CEO Advent Atum Pty Ltd
adventatumhq@adventatum.com

Advent Atum | Leading the Future of Defence | www.adventatum.com

Advent Atum

© 2025 Advent Atum Pty Ltd.
All rights reserved. HORAS TDE and associated technologies are trademarks of Advent Atum. Any unauthorised use, reproduction, or distribution of this material is prohibited.