

GAMEKEEPER 16U

Counter-UAS Radar



Holographic Radar. See everything, all of the time.

The Gamekeeper 16U radar is able to detect, track and classify small Unmanned Air Systems (sUAS) in full 3 dimensions to a range of 5km. Unlike conventional scanning radars, Gamekeeper has no moving parts, and instead continuously "floodlights" the entire field of view. It uses an array of fixed, staring receivers to form a digital 3D image of the sky in computer memory, providing 3D location and velocity of every object detected. Powerful algorithms distinguish targets of interest from background clutter, and classify them as UAS or other targets.



Unique Holographic Radar designed specifically for detection of small UAS



Tracking in 3 dimensions allows target threat assessment and cuing of other sensors or countermeasures



Detection at long range (5km) giving early warning and reaction time



Automatic classification separates UAS from other road, air and sea targets, including birds



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COVERAGE

Range	5km
Azimuth	90°
Elevation	30°
Max Altitude	900m
Wide Area Coverage	Multiple units networked together

PERFORMANCE

Target Size	0.01m ² Radar Cross Section @ 5km range
Classification	UAS, Aircraft, Ground Vehicle, Surface Vessel, Bird
Update Rate	4x/sec

TRANSMISSION

Frequency	L-Band 1.255GHz
Peak Power	2kW

DATA OUTPUT

Format	Asterix Cat 48 (including target classification field)
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FUTURE-PROOF TECHNOLOGY

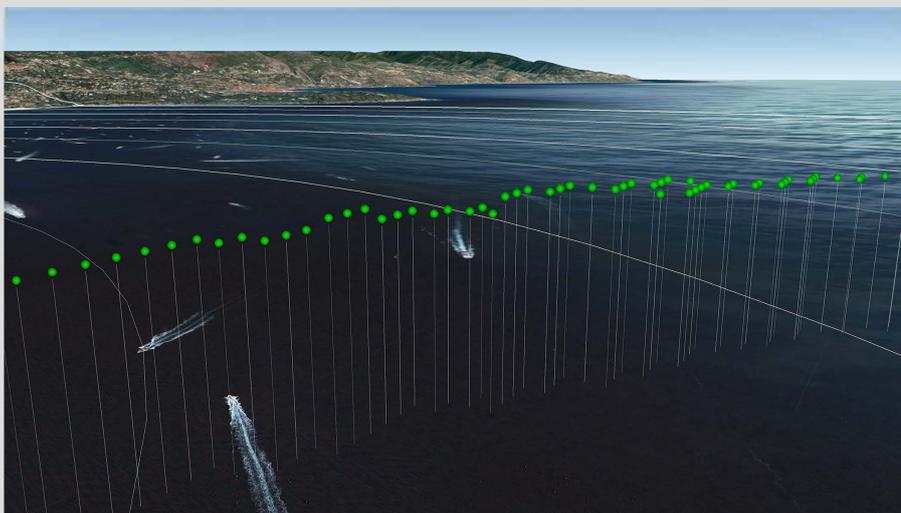
UAS design and technology is changing rapidly. Gamekeeper is a software defined radar. As UAS change, the software in deployed Gamekeeper units can be updated with new algorithms and features developed by Aveillant.

REAL-TIME OUTPUT

Gamekeeper's high speed update rate (4x per second) provides live output, enabling an operator to observe target behaviour. Standard data output format ensures ease of compatibility and integration with additional sensors, countermeasures and C2 systems.

LOW MAINTENANCE

Gamekeeper has no moving parts minimising maintenance and operating costs, and simplifying installation. Aveillant can provide remote monitoring and maintenance, along with regular software updates, maximising system availability.



3D TRACKING

Left and below:
3D tracks of small commercial UAS from Gamekeeper in Monaco

