

COUNTER-sUAS TECHNOLOGY

Detect, Defeat, and Defend

Operating Principles

Ninja Sentinel is a multi-layer C-sUAS sensor solution that increases rapid, accurate, and reliable small Unmanned Aircraft Systems (sUAS) detection performance. Sentinel adds additional sensor modalities to the proven core Ninja RF detection and mitigation performance, increasing sUAS detection, track, and ID capabilities in all environments. Intelligent multi-sensor fusion algorithms and machine learning models combine all the sensor data for an integrated, information-rich view of the operating picture.

Sentinel Features

- Detects, tracks, and identifies both out-of-library signatures and non-transmitting sUAS
- Advanced Machine Learning (ML) algorithms for superior detection and false alarm reduction
- Sensor cueing enables swift acquisition of high-resolution imagery for target verification
- Combined sensor modalities cannot be spoofed
- Seamless integration with other existing Ninja C-sUAS equipment sharing a common Command & Control (C2) picture
- Operator control of the camera view from the Ninja dashboard
- Automated sensor calibration maintains Pan, Tilt, Zoom (PTZ) accuracy for increased uptime
- Architecture is both modular and scalable, enabling multiple sensor options

Contact us to learn more:

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Implementation Partners:

Hardware assembled in the US by Trust Automation

Certified Field Service Representatives from OWT Global



NINJA SENTINEL SPECIFICATIONS*		
Camera	Resolution	4K @ 30 FPS (3840x2160)
	Zoom	49X Optical Zoom + 16X Digital
	Range†	> 1 km
	Pan Angle & Speed	Endless 360° Continuous Rotation, 0.4°/s to 60°/s
Radar	Tilt Angle & Speed	90° to +90°, 0.4°/s to 40°/s
	Frequency	24.45 - 24.65 GHz (multi-channel)
	Range†	> 1 km
	FOV	120° azimuth, 80° elevation
Deployment	Ground mast, pole mount, or building mount	
Size (LxWxH)	Camera: 11.5"x7.5"x9.5" Radar: 8"x1.5"x6.5"	
Weight	Camera: 25 lbs Radar: 2.75 lbs	
Power	Input: 24VDC Consumption: 36-175W	

* Specifications quoted for the baseline Sentinel hardware. Hardware customization options available on request

† Performance ranges based on a DJI Phantom 4 platform

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