

# COUNTER-sUAS TECHNOLOGY

Detect, Defeat, and Defend



Jointly developed with the US Air Force



## Ninja is JCO Approved

(US DoD Joint C-sUAS Office - Jun 2020\*)

The affordable Ninja C-sUAS system is made in the US and detects, disrupts, and defeats hostile unmanned aircraft – without any indiscriminate interference to friendly systems caused by conventional sUAS jamming technologies. Ninja rapidly detects both the aircraft and the controller location enabling a variety of response options, while also enabling the whitelisting of friendly drones for uninhibited operations. Ninja is software upgradeable to keep pace with emerging sUAS threats.

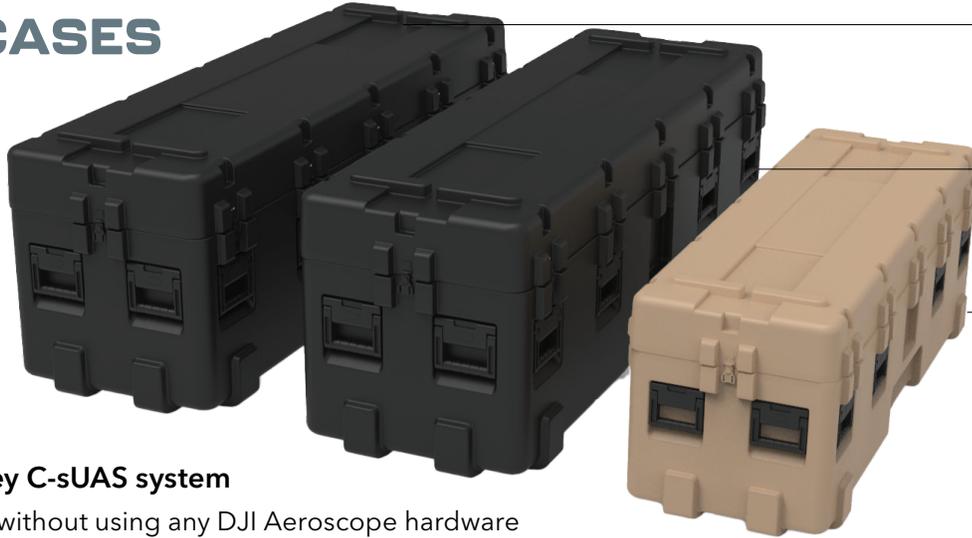
## Operating Principles

Ninja employs an array of industry-standard Software Defined Radios (SDRs) and a powerful embedded computing system to intercept and decipher sUAS communication signals ranging from 70 MHz to 6 GHz in real-time. Ninja provides simultaneous detection and defeat for swarm mitigation. Once a Ninja defeat has been selected, it can hold Group 1 & 2 sUAS in place, force a soft landing, or re-route a compromised sUAS with the touch of a button. All Ninja systems provide full 360 deg protection, and the coverage area is scalable with the addition of other Ninja units. A smaller size, weight, and power Ninja TRx box is available for low-cost range extension and tailored coverage.



\*[https://www.army.mil/article/236713/army\\_announces\\_selection\\_of\\_interim\\_c\\_suas\\_systems](https://www.army.mil/article/236713/army_announces_selection_of_interim_c_suas_systems)

# NINJA GEN2 SHIPS IN THREE CASES



## NINJA CASE

72" x 24" x 24"  
289 lbs

## ANTENNA CASE

72" x 24" x 24"  
165 lbs

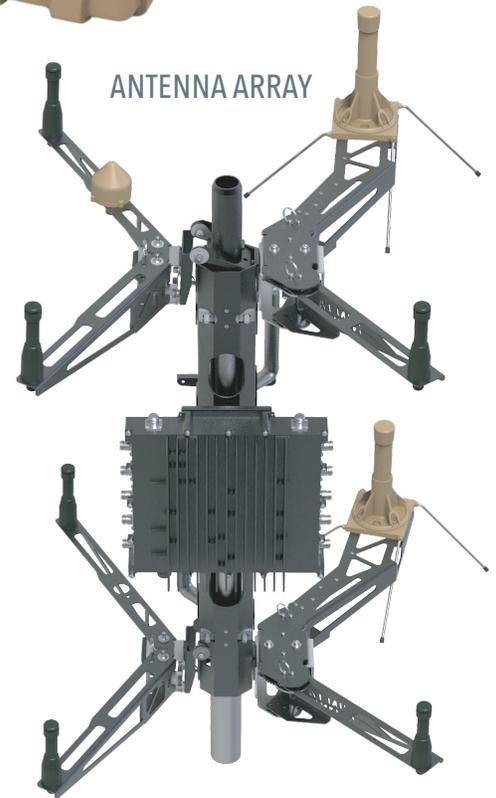
## MAST CASE

61" x 21" x 14"  
172 lbs  
*includes lightning kit*

## Features

### Ninja Gen2 is a turnkey C-sUAS system

- DJI Drone detection without using any DJI Aeroscope hardware
- 30' Antenna Mast Included (can be customized for specific deployments)
- Laptop Included for Command & Control (C2) and software installation
- Multiple user interfaces - Web-based, ATAK, FAADC2, and UC2
- API and SDK for external C2 or battle manager integration
- Removable drives to support classified operations
- System hardened - meets Cyber Security Authority to Operate requirements
- TAA Compliant Supply Chain
- 1 year warranty, training, and software upgrades included



NINJA GEN2 SPECIFICATIONS	
Size	17"x12"x15" (LxWxH)
Weight	66 lbs using DC power 104 lbs using AC power supply (excluding mast weight)
Power Input	VDC: MIL-STD-1275: 28VDC @ 400 Watts VAC: 120/230 VAC, 50/60/400 Hz with provided Power supply @ 430 Watts (120VAC)
Deployment Footprint	30'x30' (including guy wires)
Deployment Time	45 min with 2 personnel
Coverage	360 deg
RF Channels	8
Frequency Range	70 MHz - 6 GHz
RF Band Coverage	433/915 MHz, 2.4/5.8 GHz
WiFi	4 dedicated dual band channels
Detection Range	Site-specific (multiple km)
Defeat Range	Site-specific (several km)
Connectivity	1 Gb RJ45 Ethernet
Operating Temperature	-32 deg C to 55 deg C

## Contact us to learn more:

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**BLACK RIVER**  
SYSTEMS COMPANY

### Implementation Partners:

Hardware assembled in the US by Trust Automation  
Certified Field Service Representatives from OWT Global