

COUNTER-sUAS TECHNOLOGY

Detect, Defeat, and Defend

NINJA
TRx

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

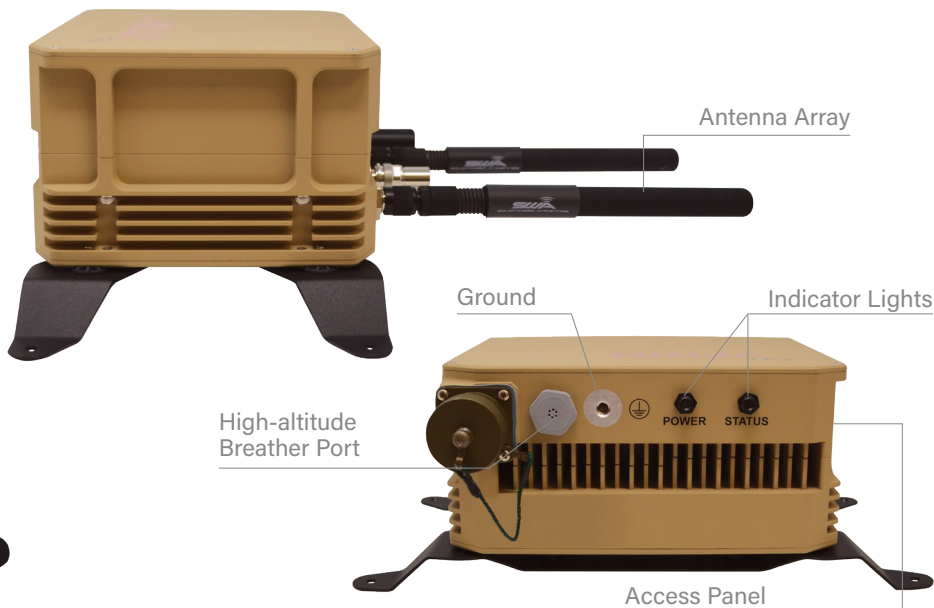
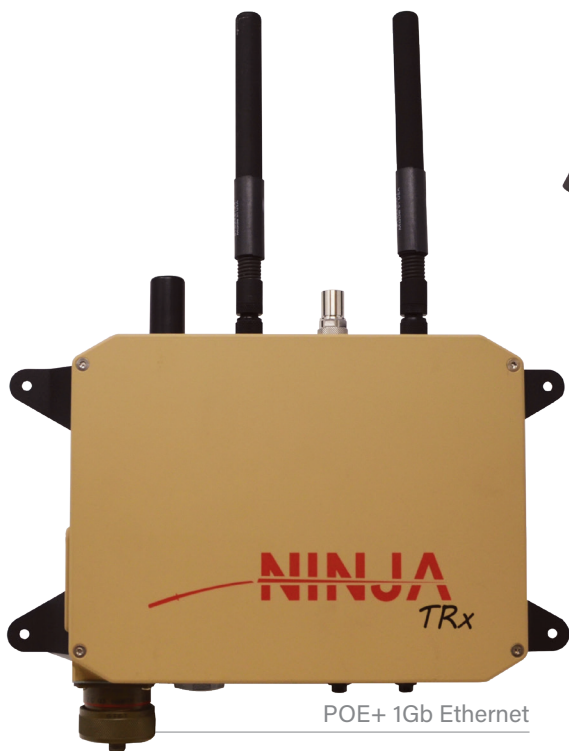
Ninja TRx is a low-cost, lightweight, range extension solution that can be added to a Gen2 deployment providing tailored coverage and additional swarm capabilities.

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.



NINJA TRx

DEVICE FEATURES



Features

Ninja Gen2 is required for TRx deployments

- Effective against most UAS link types
- UAS detection range identical to Ninja Gen2 (defeat slightly reduced)
- Covers RF blind spots
- Enables simultaneous track updates during active Ninja mitigation
- Scalable swarm protection with the addition of TRx units
- Power and Status system indicators
- TAA Compliant Supply Chain
- 1-year warranty, training, and software upgrades included

Ninja TRx Expeditionary Kit

An expeditionary kit is also available for the Ninja TRx enabling quick setup/teardown and wireless operations. The kit includes an MPU5 radio kit for wireless connections, a light-weight mast, and hardened PoE injectors.

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

| NINJA TRx SPECIFICATIONS | |
|--------------------------|---|
| Size | 8.2"x3.8"x5.3" (LxWxH) without antennas |
| Weight | 6.5 lbs |
| Power Input | PoE+ (Power over Ethernet Plus, 802.3at Type 2) |
| Deployment | Ground mast, pole mount, or building mount |
| Deployment Time | 10 min with one person |
| Coverage | 360 deg |
| RF Channels | 2 |
| Frequency Range | 70 MHz - 6 GHz |
| RF Band Coverage | 433/915 MHz, 2.4/5.8 GHz |
| WiFi | Dual-band channel |
| 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 |