

DefendAir by ParaZero

Where The Threat Ends, Victory Begins

DEFENDAIR
by ParaZero Technologies

Multi-Layered, Net-Based,
Non-Explosive Anti-Drone Solution



 **PARAZERO**

A World of Drone Innovation
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ParaZero Technologies Ltd.

ParaZero is a pioneering defense technology company and the global leader in **net-based counter-UAS interception**, defining a new standard for controlled drone mitigation. Designed to neutralize incoming attack drones without explosives, ParaZero's **DEFEND^{AIR} systems deliver fast, precise, and operationally safe interception capabilities** for military and security forces. Deployed as the **final layer of defense**, these solutions protect personnel, critical infrastructure, and sensitive sites from the rapidly evolving drone threat.

The Threat

Modern warfare has expanded from a two-dimensional battlefield to a fully **three-dimensional operational space**. Small, fast, and increasingly autonomous drones can approach from multiple directions, operate with minimal signatures, and strike targets with little warning. From low-cost FPV attack drones to coordinated swarm threats, these systems now challenge traditional defense architectures. A drone costing only a few hundred dollars can threaten **multi-million-dollar assets and personnel**, creating a severe **cost and response asymmetry**.

This new reality requires **layered counter-UAS defenses** capable of detecting, tracking, and intercepting threats across multiple engagement ranges. **This is exactly where DefendAir operates.**



▲ Hand-Held Net Launcher

DefendAir By ParaZero




DEFEND^{AIR} is the standard for layered counter-UAS interception, designed to neutralize hostile drones across multiple engagement ranges. Using ParaZero's patented **net-based interception technology**, DefendAir provides a controlled, non-explosive method for intercepting aerial threats while minimizing collateral damage.

Designed for military, security, and critical infrastructure protection, the system delivers a **scalable and operationally flexible solution** capable of defending personnel, sensitive sites, and strategic assets against the rapidly evolving drone threat:

- **Long Range — Autonomous Interception Drone:** Detection, tracking and Interception Drone equipped with ParaZero net pod onboard.
- **Medium Range — Perimeter Protection:** 360° system including radar and optical sensors for perimeter and assets protection.
- **Personal Protection — Portable Net Launcher** The ultimate last line of defense, personal protection for infantry soldiers, VIPs and etc.

DefendAir Benefits

- **Non-Explosive Interception:** neutralizes hostile drones without fragmentation or collateral damage, enabling safe operation in **urban and sensitive environments**.
- **Effective in RF-Denied Environments:** capable of intercepting drones operating without RF signals, including **fiber-optic-guided threats**.
- **Lowest Cost per Interception: DEFEND^{AIR} sets the industry benchmark for interception cost**, delivering the most efficient and scalable response to low-cost drone threats.
- **Layered Counter-UAS Defense: DEFEND^{AIR} delivers a 360° interception architecture**, engaging hostile drones across multiple layers: **interceptor drones for long-range threats, perimeter defense systems for mid-range protection, and portable launchers for close-range interception and personal defense.**

	Interception Drone	Perimeter Protection	Portable Net Launcher
			
Range	Approx. 5 km depending on the drone range	100–500 m	15-30 m
Operation	Autonomous, radar based + optical sensors and fire control computer	Autonomous, radar based + optical sensors and fire control computer	Manual possible add-on - optic sight
Possible integration	Radar, C2, RF Systems	Radar, C2, RF Systems	Armed forces and security personnel



DefendAir Personal Anti-Drone Net Launcher

Your Portable Last Line of Defense
Against Hostile Drones

 **DEFENDAIR**
by ParaZero Technologies

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DefendAir Portable Net Launcher Anti-Drone (C-UAS) Solution



ParaZero Technologies Ltd. History of Innovation

ParaZero is a pioneering defense technology company and the global leader in **net-based counter-UAS interception**, defining a new standard for controlled drone mitigation. A non-explosive solution designed to neutralize incoming attack drones, ParaZero's **DEFENDAIR systems deliver fast, precise, and operationally safe interception capabilities** for military and security forces. Deployed as the **final layer of defense**, these solutions protect personnel, critical infrastructure, and sensitive sites from the rapidly evolving drone threat.

The Challenge

Attack drones have become one of the most immediate threats on the modern battlefield. FPV drones, fiber-optic guided systems, and RF-silent platforms can bypass traditional air defense layers and threaten personnel, vehicles, and critical infrastructure at extremely short range.

Conventional counter-UAS systems are often not designed to operate safely or effectively in these close-range scenarios, particularly in dense or sensitive environments. As a result, forces on the ground require a **controlled and reliable interception capability at the final line of defense—where threats must be stopped immediately before impact.**

The DEFENDAIR Advantage

Where the threat ends, victory begins.

DEFENDAIR provides a fast, controlled, and operationally safe solution for close-range drone interception. Using ParaZero's advanced **net-based interception technology**, the system neutralizes hostile drones without explosives or fragmentation, making it safe to deploy around personnel, critical infrastructure, and sensitive environments.

Lightweight, portable, and ready for immediate deployment, DEFENDAIR enables military and security forces to intercept aerial threats in seconds. Designed for frontline use, it delivers a **reliable final-layer interception capability** exactly where threats must be stopped—just before impact.

Technical Specifications

General Description

- **Efficient against multi-rotor threats including** fast incoming attack FPV drones and large utility drones (Such as DJI FlyCart)

Mechanical Specs

- **Dimensions:** L: 75 cm | H: 19.5 cm | W: 9 cm
- **Net Gun Total System Weight:** 1.7 kg
- **Net-Pod Weight:** 0.4 kg

Performance

- **Net Size and hole gap configured according to the threat** (Attack FPV and larger threats)
- **Net Deployment Range:** 15-30 m
- **Reload Time:** Under 2 seconds
- **Net Deployment Speed:** Fully deployed in 1 second

Environment & Operation

- **Operating Temp:** -20°C to 60°C
- **Weather Resistance:** +IP55

Safety

- **Fail-safe:** Integrated safety switch
- **Non-explosive:** Automotive components comply with urban engagement protocols
- **Battery:** 20 straight hours of operation (from turning on)
- **Net Fire Resistance:** from 150 °C to 450 °C (subject to net type)

