TTC

LASER TRAINING VS DRONES

Advanced Counter-Drone Simulation

Product Features

FPV Ready
Designed to be installed on commercial, custom, and FPV drones.

Super Fast
Class 1 Laser Delay <20ms

Real Time Feedback
Real-Time Audio Feedback for Shooter, Pilot and Umpire

Compliances
Drone Compliance Compatible with any drone with a minimum payload of 150g

About Us

We specialize in advanced, laser-based training and simulation systems, leveraging decades of experience in tactical training methodologies. Our focus is on developing state-of-the-art simulation technology for laser engagement in complex, multi-asset scenarios.

Why Choose Us ?

- NATO-Standard Expertise & Technology: Decades of experience in simulation, training, and adherence to NATO technological standards.
- Cost-Effective Training: Dramatically reduce training costs by utilizing real assets without destruction, preserving expensive drone platforms.
- Unmatched Realism & Versatility: Provides realistic, up-to-date training for both the shooter and the pilot, integrating seamlessly with genuine target drone platforms.

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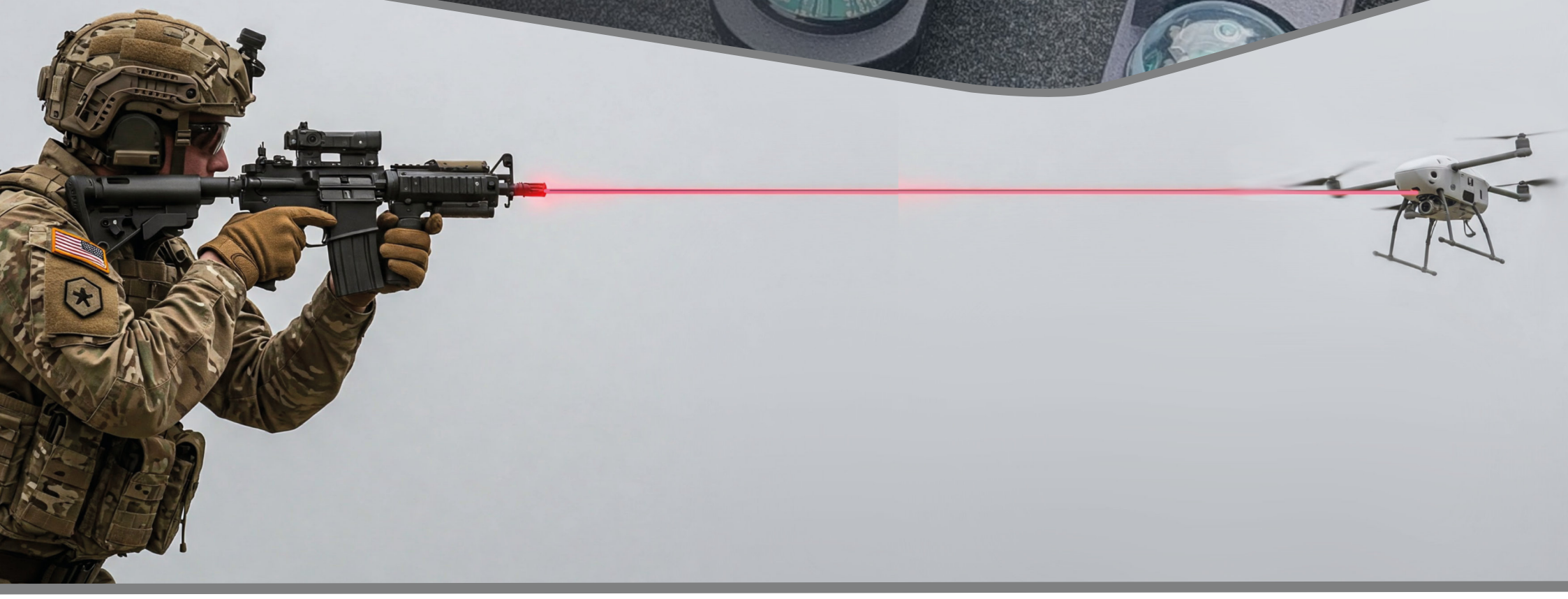

Laser Counter Drone Trtaining

The Multi-Directional IR Laser Sensor/Emitter System is the advanced, scalable solution for tactical counter-drone training, designed for complex simulations involving aerial, ground, and maritime platforms.

This system ensures real-time hit detection and comprehensive data acquisition for post-training analysis.

The system accurately simulates firing characteristics ranging from shotgun caliber 12 to rifle calibers .223, .556, and .556 Fragmentation.

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Key System Features

Laser Safety Class 1: The emitter utilizes an Infrared (980nm) **laser certified as Class 1**, ensuring maximum safety during training scenarios. **Simulated Caliber Range:** The system accurately simulates firing characteristics ranging from shotgun caliber 12 to rifle calibers 2.23, 5.56, and 5.56 Fragmentation. **Omnidirectional Detection:** The sensor features an omnidirectional receiving system to detect laser hits from any angle, and is compatible with commercial, custom, and FPV drones. **Speed and Realism:** Laser latency is < 20ms, guaranteeing real-time audio feedback for the shooter, pilot, and umpire. **LoRa Communication:** Hit data is transmitted in real-time via the embedded LoRa radio system, with reliable connectivity up to 1 km.**Multi-Asset Scalability:** The system supports complex scenario management involving multiple operators, multiple drones, and multiple base stations simultaneously. **Advanced Discrimination:** A signal decoding mechanism accurately discriminates which specific weapon/operator hits which drone/sensor. **Data Analysis:** The Base Station securely relays the discriminated dataset via API over a WiFi connection for deep post-training analysis. **Durability:** The sensors and Base Station are rated IPX4, ensuring protection against water splashes and suitability for use under rain.

The system mounts seamlessly onto genuine drone platforms with a minimum payload of 150g, representing the culmination of our expertise in simulation and adherence to NATO standards.

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