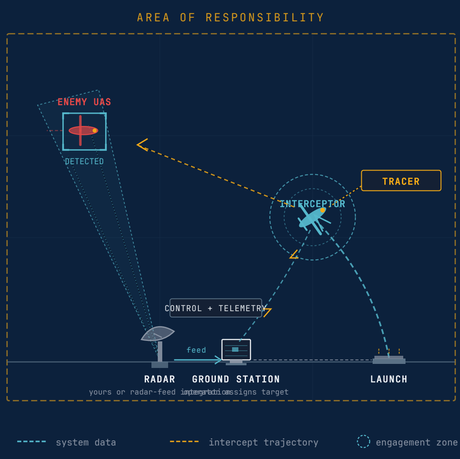
LAB 254 · COUNTER-UAS · SEPARATE LICENSE

# Automatic interception of enemy UAS detected on radar

Tracer integrates with your existing radar or with a radar-feed integration system. Delivered with a ground control station and the autonomous Tracer interceptor.

The operator picks a target from the radar feed and assigns it. From there, the drone flies autonomously until it sees the target on camera and carries the engagement through to contact — no manual flight control from the ground.




**300–500 m**

INTERCEPTOR ACQUIRES THE ENEMY UAS · TERMINAL GUIDANCE CARRIES IT THROUGH TO CONTACT

**2 modes**

MANUAL DETONATION · AUTONOMOUS STRIKE

SYSTEM = (RADAR OR RADAR-FEED INTEGRATION) + GROUND STATION + INTERCEPTOR

### Plugs into your radar — or via radar-feed integration

Tracer integrates with your existing radar or with a radar-feed integration system.

### Onboard terminal guidance

Before the target is ever in frame, an AI model flies the interceptor on radar data. At 300–500 m the camera acquires the target, then hybrid guidance (Pixel Lock + AI recovery on occlusion) carries it through to contact. No operator link required in the terminal phase.

### Two engagement modes

**Manual detonation** — operator detonates at close range. **Autonomous strike** — full pursuit and contact at 300–500 m on the telemetry link. Mode is selected by target profile.

## Automated kill chain


The operator is engaged only at step 02 (target tasking). Steps 03–05 are automated; in step 05 the operator can initiate manual detonation at close range.

## Specifications

| | |
|---|---|
| SYSTEM COMPOSITION | radar / radar-feed integration · ground station · Tracer interceptor |
| RADAR | your existing radar or radar-feed integration system |
| INTERCEPTOR AIRFRAME | FPV quadcopter or fixed-wing drone |
| TERMINAL GUIDANCE | Tracer · onboard the interceptor |
| CAMERA LOCK | 300–500 m · terminal intercept phase |
| OPERATOR LINK | target tasking + onboard video feed · no manual flight control |

## Why it works

### A system, not a single drone

You get one system — radar integration, decision-making, and intercept together.

### Autonomous pursuit, not an FPV joystick

This isn't a pilot manually chasing another FPV. The operator assigns the target — from there, Tracer flies the interceptor to contact autonomously.

### Scalable interception

Interceptor autonomy multiplies the effectiveness of your existing FPV operators: one unit handles more targets per shift, more enemy drones downed without expanding the team.

**Lab 254**

Full specs available on request

Contact — Lab254@proton.me