

A blurred image of a drone in flight against a dark blue background. The drone is positioned diagonally across the frame, with its wings and propellers visible. The text "DRONE INTERCEPTORS" is overlaid in the center in a white, sans-serif font.

DRONE INTERCEPTORS

THRACEAERIALTECH.COM



How the System Works

Detect & Locate: Our fixed C-UAS stations establish a track on the intruding UAV and continuously fuse its position.

Launch & Tasking: An interceptor mission is generated automatically. The aircraft is launched and receives real-time guidance from the ground sensor network; the operator maintains control within geo-fenced routes and ROE.

Engagement Options:

- Kinetic effector — small precision munition for rapid neutralization.
- Directed-energy effector — laser engagement for stand-off disablement.

Follow / Containment Mode: If the target overflies a high-risk area where effects could cause collateral damage, the interceptor can switch to a shadowing mode, escorting the UAV until it exits the danger zone or authorities authorize engagement.



Key Capabilities

Endurance: up to 2 hours (mission-profile dependent).

Intercept radius: up to 30 km (LoS; guided by ground sensor network).

Max target speed: up to 140 km/h (≈ 39 m/s).

Onboard sensors: EO (day), optional IR, stabilized gimbal with target tracking.

Directed-energy engagement: laser neutralization time 8–11 seconds (typical).

Kinetic engagement: 1 precision kinetic interceptor carried (where permitted).

*Performance depends on weather, terrain, and RF conditions. Engagement options are deployed only where authorized by local law and ROE.