

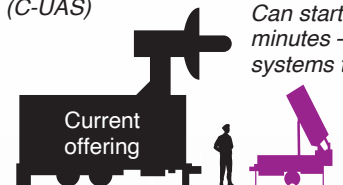
“Leonidas” microwave anti-drone weapon

With drones increasingly important in 21st century warfare, a U.S. startup has developed a portable and powerful microwave energy weapon that can disable enemy drones with pinpoint accuracy

LEONIDAS

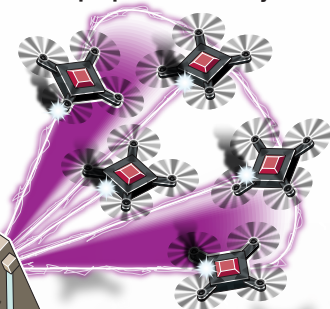
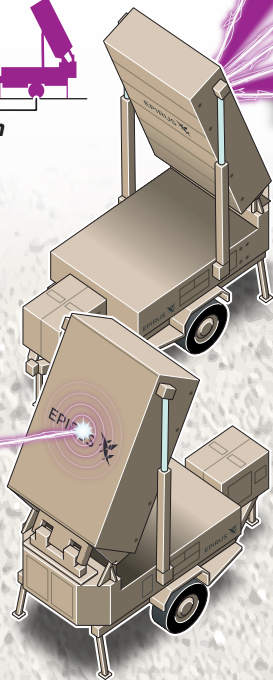
Portable **High Power Microwave (HPM)**
Counter Unmanned Aircraft System
(C-UAS)

Can start up in
minutes – current
systems take hours



Mobility: Use of **Gallium Nitride** power amplifiers reduces size and weight, unlike bulky vacuum tubes and coolants of current systems

*Friendly
drones
unaffected*



ATTACK METHODS

Swarm mode

Disables swarm of drones in single, widespread blast

Precision fire

Technique known as **beamforming** allows weapon to focus wireless signal towards specific target while leaving other equipment unharmed

Leonidas can fire thousands of pulses per second in either attack mode

MEMORABLE DRONE INCIDENTS

Dec 2018: Unauthorised drones enter airspace around London's **Gatwick Airport**, forcing authorities to ground all aircraft for 36 hours, affecting 1,000 flights. Costs estimated at **\$70 million**

Jul 2019*: Drones target U.S. Navy destroyers off coast of California, flashing strobe lights, performing dangerous manoeuvres and staying airborne for **90 minutes** (*longer than commercial drones can fly*)