APOLLO HIGH ENERGY LASER WEAPON

Safeguarding critical assets with unwavering precision at the speed of light

Apollo is built to destroy or disable Group 1–3 UAS and disrupt their sensors at range, reducing the effectiveness of coordinated swarm attacks.

UAS now use countermeasures such as rapid manoeuvre, rotation, thermal isolation, and reflective coatings — tactics that make large swarms harder to track and engage. Apollo has evolved over more than a decade to meet this challenge, delivering precision engagement, high power levels, and continuous-fire capability to defeat these increasingly complex threats.

At 100kW power, Apollo can quickly defeat UAS, even when they use countermeasures. Its increased laser power and reduced dwell time between engagements enable it to disable more than 20 UAS per minute at typical ranges for swarm attack.

Swarm attacks are often coordinated by loitering UAS platforms positioned beyond 10 km, with line-of-sight to the intended target area. Apollo targets these sensors, disrupting swarm coordination and the flow of targeting data.

With external electrical power and cooling, Apollo fires continuously. When operating independently, its internal magazine supports over 200 UAS kills.

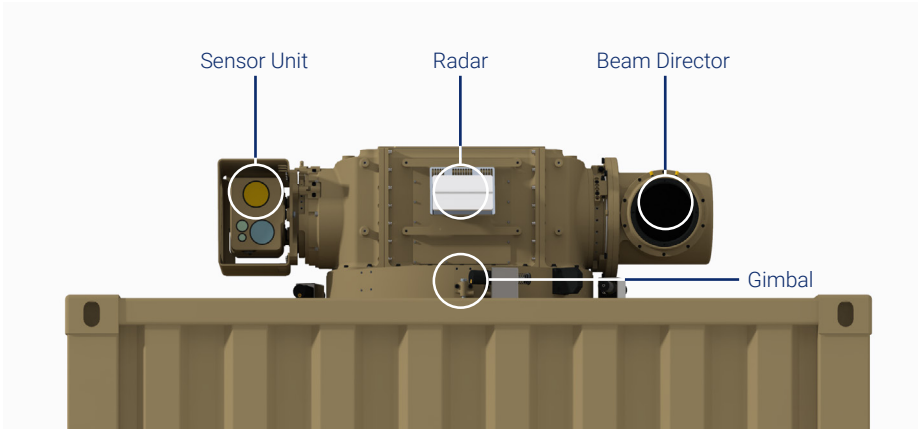
Apollo integrates with NATO air defence C2 systems and theatre-level IADS to enable rapid fielding within existing defence architectures.

Packaged in a 20-foot ISO container, Apollo is easy to transport and camouflage, with rapid setup after deployment. The system can be made operational in under two hours by experienced crews.

KEY FEATURES

- Laser power 50–150kW
- 50 m to 3 km CUAS hard kill range
- 50 m to 15 km optical sensor denial
- >20 drone kills per minute (Group 1 UAS)
- <1.5 second (60°) slew to cue and engage
- Unlimited engagement with external electrical power
- >200 stowed kills in magazine if fully isolated
- Integrates with all NATO fielded C2 and IADS
- 20’ ISO container packaging for rapid relocation

SCALABLE HIGH ENERGY LASER AIR DEFENCE



LASER	CONFIGURATION
Power	50 - 150 kW
Duty cycle	100% subject to electrical power
Number of stored engagements	200
Number of engagements with continuous power	Unlimited
Beam elevation	+110° to −10°
Beam direction	n x 360°

TARGET ACQUISITION SYSTEM	CONFIGURATION
FOV (visible)	Scalable from <1.2° to >33°
FOV (IR)	Scalable from <1.4° to >27°
Radar threat detection	Included, or third-party via standard interface
IR passive threat detection	Included, or third-party via standard interface
C2 interface	Multiple C2 systems integrated

ENGAGEMENT	CONFIGURATION
Slew to cue	700 msec (60°)
Target lock	600 msec
Target neutralisation (Group 1 UAS)	1.3 sec (50 kW)
Target neutralisation (Group 2 UAS)	4.4 sec (50 kW)
Engagement range	50 m to 3 km (typical)

DEPLOYMENT
20' transportable shipping container
8 x 8 custom installation

SENSOR UNIT	DAY CAMERA	THERMAL IMAGER
Detection range	> 12,000 m	> 13,700 m
Recognition range	> 5600 m	> 5100 m
Identification range	> 4700 m	> 4000 m

WATCH THE VIDEO HIGH ENERGY LASER DRONE DEFENCE

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