



DIRECTED ENERGY UAS DEFENSE

A new benchmark for neutralizing swarm
UAS attacks against key infrastructure

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EOS' Directed Energy (DE) system uses a powerful laser as the directed energy source. The laser power available ranges from 25–50 kW, depending on the application.

The DE system has been developed as an element of the EOS Titanis UAS defense system, and specifically to disable UAS in Groups 1, 2 and 3 and to neutralize sensors on UAS at long range.

The system is supplied with radar and infrared threat detection, fast-cuing algorithms, target acquisition and beam locking, and safety systems.

The system can be supplied with 100–500 stowed engagements or operated continuously from external electrical power. There is no limit to the ON time for the DE effector.

The DE effector complements kinetic effectors, such as guns and cannons, to overcome certain potential disadvantages of counter-UAS applications, including collateral damage caused by rounds flying beyond the target or engaging targets directly overhead.

The DE effector overcomes these limitations and, operating alongside kinetic effectors, provides a complete defense system against UAS from Groups 1–3.

The system can be made operational rapidly after transport, with on-site setup times of around three hours for experienced crews.



LASER	
Power	25 kW or 35 kW or 50 kW
Duty cycle	100% subject to electrical power
Weight above roof line	210 kg
No. of stored engagements	Unlimited
Beam elevation	+90° to -10°
Beam direction	n × 360°
Beam stability	0.1 mrad
TARGET ACQUISITION SYSTEM	
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
ENGAGEMENT	
Slew to cue	400 msec (60°)
Target lock	500 msec
Target neutralization (Group 1)	1.3 sec (35 kW)
Target neutralization (Group 2)	4.4 sec (35 kW)
Engagement range	200 m to 3 km (typical)
DEPLOYMENT	
20' transportable shipping container 8 × 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

**FOR MORE
INFORMATION:**

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