RAPTOR Autonomous Hunter Killer Drone System



Defeating Drone Threats



RAPTOR is the future of tactical counter drone systems. Completely autonomous - once launched by its operator it intercepts and defeats multi-rotor and fixed-wing drone threats with a munition or net then returns to its launch point for re-arming and re-use. Tiltrotor configuration permits precise attitude control for targeting accuracy with a coaxial quadcopter layout enabling racing drone performance.

RAPTOR is not flown by the operator - there is no remote control. The operator may abort the mission at any time via a secure uplink. Training and support burdens are low.

Compact and man-portable, RAPTOR does not require any additional support to operate – the system is completely self-contained.

- Man-Portable & Entirely Self-Contained no third-party sensors required
- Simple & Intuitive Operation
- True Autonomous Mission Operation minimal workload for operators. No remote control. No distraction
- Unique AI-driven Optical Drone Detection Software equally effective against dark & remote-controlled targets
- Hard Kill or Net Options Available
- Mission Abort Facility
- Coaxial Quadcopter with Tilt Rotor Configuration maximum control, accuracy, speed & manoeuverability



RAPTOR uses a rugged mission support tablet* with intuitive applications. Al libraries can be updated with customer lead intelligence as required.

RAPTOR Options:

- Net Defeat System
- Non GNSS for operations in GPS-denied environments
- Navigation & Conspicuity
 Lighting
- ADS-B
- High-Capacity Battery
- Vehicle Integration

*Ground support only, not used during mission



RAPTOR Specification

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Configuration	Coaxial Quadcopter
Layout	'H' Form Tiltrotor
Size (Diagonal Motor/Motor)	480mm
MTOW	6kg
Power Type	Electric
Motors	2810 1100kv
Propulsion Propellers	8" diameter x 4" pitch articulation x 3 blades
Battery	8Ah 6s LiPo
Operating Voltage	25v
Endurance	Up to 10 mins
Max Mission Range	500m (target size dependent)
Mission Duration	<60 seconds (target range dependent)
Missions per battery	4*
Max Wind Speed (take off and land)	27mph / 43kph / 12mps
Maximum Flight Speed	76mph / 122kph / 34mps
Thrust to Weight Ratio	3:1
Maximum Thrust	20.8kg
Camera/Sensors	Proprietary Optical Tracking Unit
Abort Transmission Range	Up to 10km
Threat disablement	Munition or Net
Operating Temperature	-10° to +45°C
RAPTOR MUNITION RELEASE MECHANISM	
Mass	1kg
Barrel Bore	Smooth
Barrel Length	150mm
Barrel Gauge	12G
Barrel Number	One
Shot Number	One
Firing Initiation	Electrical
Firing Operation	Mechanical
Ground Safety Mechanism	Power removed – Ground safety Pin
Air Safety Mechanism	Firing Board control which requires multiple,
All outery meentingin	concurrent, 'IF' statements to be satisfied
Ammunition	12G Cartridge, either;
	Shot, to destroy
	Net, to neutralise
Ammunition Spread	Shot – circa 1m
	 Net – circa 1.5m