LOCUST Laser Weapon System (LWS)

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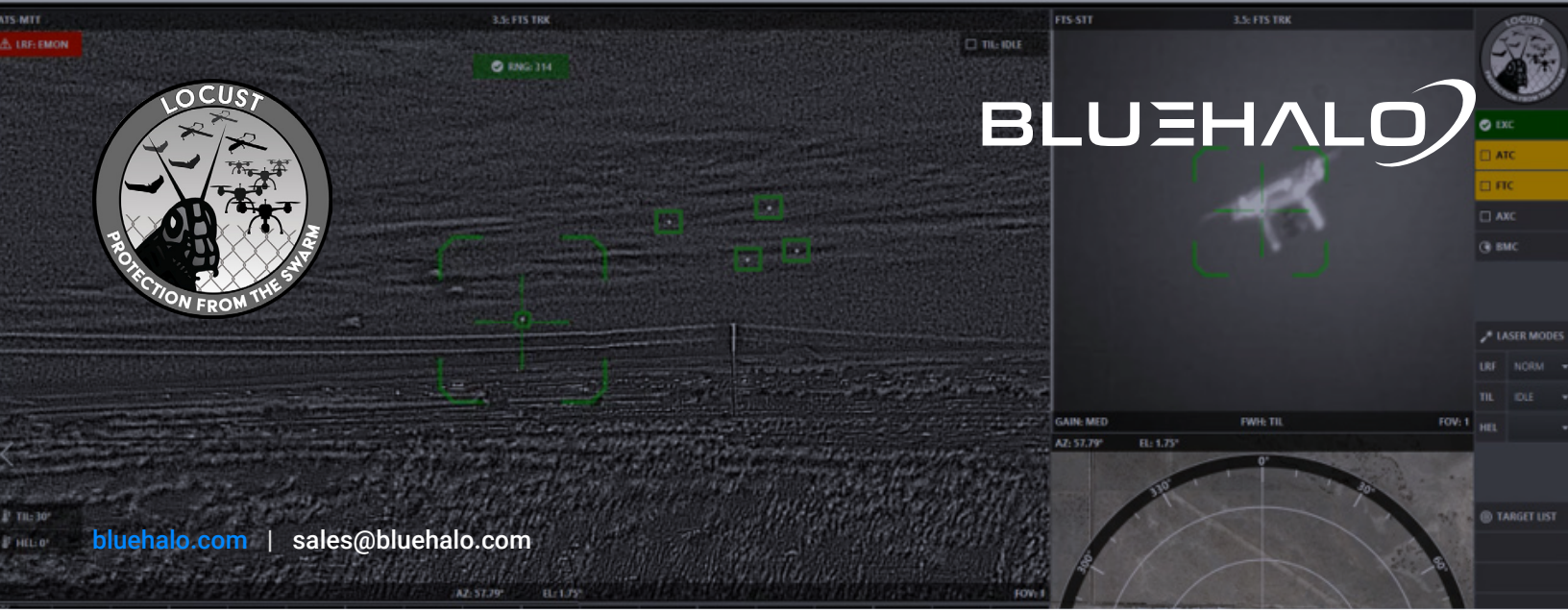

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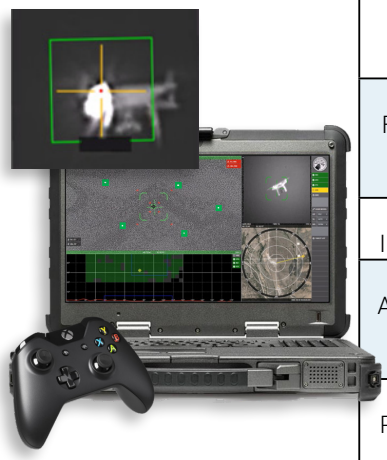
ATA's LOCUST LWS provides an affordable laser weapon for short range air defense with all the necessary laser beam control, alignment, power, thermal, and safety systems built in. It is self-contained for mobility and quick deployment, and can be easily relocated using basic equipment like forklifts, pickup trucks, or customer-provided platforms while remaining powered by a self-contained power management system.

LOCUST LWS supports ease of sustainment using easy access, modular subassemblies that customers can organically service or replace to support minimal downtime. LOCUST offers a network-based, single operator interface with Xbox gaming controls that are a natural fit to today's warfighter. The system includes an integrated checklist to efficiently guide setup and is operationally weapons "hot" within 15 minutes after powerup.

Features

- Easy to Use, Single-Operator Interface
- Complete Airspace View
- Xbox Gaming Controls
- Network-Based Interface Runs on Any PC
- Platform Agnostic



Feature	Capability	Key Benefits
Size and Weight	**Laser Weapon:** 48" W X 86" L X 84" H Weight ~ 3400 lb **Radar Cueing System:** 48" W x 78" L x 200" H, ~300 lb	- Modular Sidecar Payloads Are Easy to Service - COTS Imaging Sensors Are Readily Upgradeable - Mounted on Standard Skid for Easy Deployment
Laser Effector	Scalable Output Power (2-20 kW). Spectrally Beam Combined Laser Off-Axis Beam Director	- Power to Defeat and Damage Range of Threats - Graceful Power Degradation If Laser Amplifier Fails
Radar	Pulse-Doppler, Electronically Scanned Array Full-Hemispheric Coverage	- Fully Programmable Scan Patterns - Supports Counter-UAV, Air Defense, and Hostile Fire Detection
Beam Control	HEL to Fine Track Auto-Boresighting HEL Beam Quality Measurement	- HEL Beam Goes Exactly Where Operator Aims - Monitors and Maintains Good HEL Beam Quality Over Temperature Changes
Fine Track Payload	3x Zoom SWIR Camera 500-2500 Hz Frame Rates Eyesafe Laser Ranger	- High Bandwidth, Highly Stabilized Tracking That Maintains Lock On The Most Evasive Threats - Zoom Optics Handle Variable Object Sizes +Ranges - Ranger Maintains Good HEL Spot Focus at Target
Target Illuminator	Illuminator Spot Size Control Eye-Safe Laser	- Full 24/7 Imaging Using Active Laser Illumination - Superior Image Quality and Clutter Rejection
Acquisition Sensors	120 Hz, 1280 x 720 Full HD Visible and MWIR Sensors Zoom Optics	- Simultaneous Wide Field Tracking With Narrow Field SWIR Precision Tracking - Unique Long-Range Detection and Multi Target Track Algorithms to Handle Small, Swarm Threats
Power and Thermal	Integrated Battery/Cooling System >100s Continuous Lase >25% Duty Cycle	- Battery, Generator, or Shore Power Operations - Integrated Battery Re-Charge Capabilities - 24-Hour Battery Operations In Tracking and ISR Modes
Gimbal	Travel: 360 Az, -30 to +90 El Agility: 100 Deg/s, 80 deg/s²	- Time Optimal Slew to Cue Logic - Gimbal Search and Scan Modes - Stabilized, Inertial Pointing

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