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.

LOCUST LWS 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.
LOCUST
LASER WEAPON SYSTEM (LWS)

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

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<tr>
<th>FEATURE</th>
<th>CAPABILITY</th>
<th>KEY BENEFITS</th>
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| Size and Weight  | Laser Weapon: 48” W x 58” L x 68” H, ~1,800 lbs (for 13 kW HEL) RF(Option): 48” W x 78” L x 200” H, ~300 lbs | • 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 (2-13 kW) Spectrally Beam Combined Laser Off-Axis Beam Director | • Power to Defeat and Damage Wide Range of Threats  
• Graceful Power Degradation If Laser Amplifier Fails |
| 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 Using Unique Alignment Process |
| 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 |

International Traffic in Arms Regulations (ITAR) requires a valid export license prior to technical or hardware shipments or transmissions of information.

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