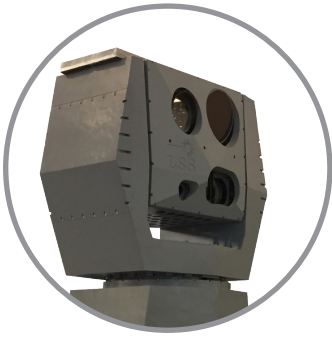


LSS

LASER DEFENSE SYSTEM





LSS

LASER DEFENSE SYSTEM

Laser Defense System (LSS) is developed against mini and micro UAV threats up to 500 meters, camouflage systems at residential areas used by terrorists and IED and roadside suspected packages up to 200 meters.

Priority usage is for ship platforms, power plants, airbases, border patrol stations, headquarters and convoy routes.

Applications

- Base Protection
- UAV Defense
- IED and Suspected Package Neutralization

Main Features

- High Energy Laser Source
- Very Low Firing Cost
- Deep Magazine
- No Reload Time
- Optical Target Detection
- Advanced Target Tracking System

Features

- High Performance IR Camera
- High Performance HDTV Camera
- Laser Range Finder
- Advanced Optical Focuser
- Target Data Calculation
- Slave Mode Operation
- Image Optimization
- Image Polarization
- Image Freeze
- Multiple Target Tracking
- Estimation Algorithms
- BIT Function
- Sensitive Stabilization
- Laser Blanking Signal Output
- Electronic Stabilization
- Laser Masking

Technical Specifications

Laser Source

- Output Power : > 1 kW
- Wavelength : 1 μ m
- Beam Quality (M²) : 1.1

Focuser

- Focusing Distance (min) : 50 m
- Focusing Distance (max) : 500 m

Thermal Camera

- Optical Zoom : 2X, 4X
- FOV
 - (Wide) : 13.5°
 - (Middle) : 6.4°
 - (Narrow) : 2.0°
 - (Very Narrow) : 1.0°
- IR Sensor : 640 x 512 (Cooled)
- IR Band : 3-5 μ m
- Focus : Auto, Manual

Daylight Camera

- Sensor : CCD or CMOS
- Digital Zoom : 12X
- FOV
 - (Very Wide) : 30°
 - (Wide) : 13.5°
 - (Middle) : 6.4°
 - (Narrow) : 2°
 - (Very Narrow) : 1° (with Digital Zoom)
- Video Output : Digital, PAL

Spotter Camera

- Sensor : CCD or CMOS
- Video Output : Digital, PAL
- FOV : 0.5°
- Focus : Manual

Laser Range Finder

- Wavelength : 1.540 μ m
- Range : 150m – 20.000 m
- Accuracy : \pm 5 m (1 σ)
- Divergence : \leq 1 mrad

System Specifications

- PTZ Angular Velocity : >3.0 rad/s
- PTZ Stabilization : 2 Axis
- PTZ Electronic Stabilization : Yes
- Remote Command/Control : RS 422, Ethernet
- Power Compatibility : STANAG 1008, MIL-STD-1399

