LSS
LASER DEFENSE SYSTEM
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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

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### Technical Specifications

#### Laser Source
- Output Power: > 1 kW
- Wavelength: 1 µm
- Beam Quality ($M^2$): 11

#### 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 µm
- 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 µm
- Range: 300 m – 20.000 m
- Accuracy: ± 5 m [1 σ]
- Divergence: ≤ 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