

LIS1000 (Laser Illumination System, 1000m Range)

System Overview

The LIS1000 is an advanced, high-performance Laser Illumination System / Laser Collimator engineered for extended-range illumination up to and exceeding 1000 meters. Fully qualified to ****JSS55555 standards for Optical Systems****, it is ****ready to integrate**** into EO/IR and other electro-optical platforms [cite: 8], featuring a hassle-free, intuitive point-and-shoot mechanism combined with precision optical alignment.

Technical Specifications

- System Nomenclature: LIS1000 (Laser Illumination System, 1000m Range)
- Illumination Range: > 1000 meters (Atmospheric and target dependent)
- System Weight: < 7.0 kg
- Form Factor: Tripod and vehicle-mounted modular electro-optical assembly [cite: 8]
- Operational Simplicity: Hassle-free deployment featuring a streamlined point-and-shoot alignment interface.
- Laser Wavelength: 910 nm $\pm$ 10 nm (Near-Infrared) [cite: 8]
- Operating Mode: Continuous Wave (CW) [cite: 8]
- Beam Control & FoV: Variable beam diameter and variable Field of View (FoV starting at 1 mrad nominal) [cite: 8]

Engineering & Environmental Standards

- Qualification Standards: Fully qualified to JSS55555 for Optical Systems (Ready to Integrate)
- Optical Configuration: Collimated/beam-conditioned laser output [cite: 8]
- Housing: Aerospace-grade 7075-T6 Aluminum & Carbon Fiber Composites
- Operating Temperature: -30°C to +55°C [cite: 8]
- Environmental Protection: IP67 Rated (Dust-tight and immersion resistant)
- Ruggedization: MIL-STD-810G Compliant

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