

Lightweight Laser Designator Rangefinder LLDR

*Precision
Engagement...
Deployable,
Lethal, and
Sustainable*



Through its unique integration of state of the art technologies, LLDR provides an overmatch sensor capability for fire support target acquisition missions.

Interconnectivity within the digitized battlefield enables LLDR to quickly acquire, locate, and designate high payoff targets.

With its dominant sensor capability, LLDR shapes the field of engagement by expanding the close combat zone and winning the beyond line of sight battle via target handoff to other precision fire assets.

Initially developed for dismounted operations, LLDR can be integrated within the mission equipment packages of Legacy (BFIST), Interim (FSVIAV), and Objective (FCS) vehicle platforms.

Features:

- **Day / Night / Adverse Weather Target Acquisition**
- **Precision Target Location**
- **Designates Stationary or Moving Targets at Extended Ranges**
- **Digital Interconnectivity**
- **Modular**

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System Specifications



Target Locator Module



Laser Designator Module



Tripod

General

- Weight: 35 lbs (16 kg)
- Operating Temperature:
-37° C (-35° F) to +49° C (120° F)
- Configuration:
 - Target Locator Module
 - Laser Designator Module
 - Tripod Assembly
 - Battery & Enclosure
 - Cable

Target Locator Module (TLM)

- Size: 9.6 x 16.9 x 5.5 inches
(24.4 x 42.9 x 14.0 centimeters)
- Weight: 12.8 lb. (5.8 kg)

Laser Designator Module (LDM)

- Size: 10.8 x 10.8 x 6.7 inches
(27.4 x 27.4 x 17 centimeters)
- Weight: 10.7 lbs (4.85 kg)
- Type: Nd: YAG
- Range: In excess of 5 km (3.1 mi)
- Codes: All NATO Band I & II plus A Code

Tripod Assembly

- Type: Independent length and angle adjustments
- Tracking Head: Dual axis viscous dampening

Battery

- Type: Primary or Secondary
- Primary: BA-5699 (full system) or BA-5590 (TLM)
- Secondary: BB-390 (TLM or system)

GPS Receiver

- Type: Embedded PLGR
- Accuracy: <16m SEP (PPS)

Thermal Sight

- Type: 640 x 480 InSb staring focal plane array
- Cooling: Closed cycle Stirling
- Waveband: 3-5 μm with laser spot viewing
- Field of View:
 - Wide: 8.2 x 6.6 degrees
 - Narrow: 3.5 x 2.8 degrees
 - E-Zoom: 0.9 x 0.7 degrees

Day Sight

- Type: High resolution staring CCD
- Field of View:
 - Wide: 4.5 x 3.8 degrees
 - Narrow: 1.2 x 1.0 degrees
 - E-Zoom: 0.6 x 0.5 degrees

Azimuth Measurement

- Type: Magnetoresistive electronic compass
- Accuracy: 13 mils (1 sigma)

Elevation Angle Measurement

- Type: Pendulum electronic inclinometer
- Accuracy: 7.5 mils (1 sigma)

Eyesafe Laser Rangefinder

- Type: Nd: YAG with KTP OPO converter
- Eyesafety: Class I
- Pulse Rate: Single shot or 1 Hz continuous
- Range: 100 to 19,995 m (5 m increments)
- Accuracy: 5 m

System Processing/Interface

- System Operation: Menu-driven software
- Display: Monocular high resolution flat panel display
- Data Interface: RS-485 / RS-232 compliant to Joint Technical Architecture
- Video Interface: RS-170 (Stat/Export)

For more information, please contact:

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