

THE VALUE OF PERFORMANCE.

***NORTHROP GRUMMAN***

## ***Lightweight Laser Designator Rangefinder with High Accuracy***

***LLDR-2H***

***Precision targeting through high accuracy  
azimuth capability and efficient, athermal  
diode-pumped laser designation***

**H**igh accuracy targeting at extended ranges, combined with long-range imaging, enables LLDR-2H to shape the field of engagement by expanding the close combat zone and winning the beyond range-of-sight battle.

Through its unique integration of leading edge technologies, LLDR-2H provides high-resolution sensors for fire-support target acquisition and reconnaissance missions.

Interconnectivity within the digitized battlefield enables the operator to use LLDR-2H to quickly acquire, locate and designate high-value targets.

### **Features:**

- High accuracy targeting
- Tactical see spot
- Terrain sketch
- Target location accuracy indicator displayed in the eyepiece and over the network
- Day/night/adverse weather target acquisition

- Designation of stationary or moving targets at extended ranges
- Athermal diode-pumping technology
- Modular

### **Technical Specifications**

#### **General**

- Weight: <32 lbs.
- Operating temperature: -37° C (-35° F) to +49° C (120° F)
- Battery life: >one 24-hour mission
- Configuration:
  - Target locator module (TLM-2H)
  - Diode-pumped laser designator module (DLDM)
  - Tripod assembly
  - BA-5590, BA-5390, or BB-2590 battery and enclosure
  - Cable

## Performance Specifications

- Target Location Error: <10 m CEP at 2.5 km using a celestial high accuracy azimuth device
- Day field of view:
  - Wide: 4.0 x 3.0 degrees
  - Wide x 2: 2.0 x 1.5 degrees
  - Narrow: 1.0 x 0.8 degrees
  - Narrow x 2: 0.5 x 0.4 degrees
- Day recognition range (standard NATO target): >7 km
- Thermal field of view:
  - Wide: 8.5 x 6.3 degrees
  - Narrow: 3.7 x 2.8 degrees
  - Narrow x 2: 1.9 x 1.4 degrees
  - Narrow x 4: 0.9 x 0.7 degrees
- Thermal recognition range (vehicle): >3 km
- Class I eyesafe laser rangefinder:
  - ±5 m (ranges ≥6 km, standard NATO targets)
  - Range readings up to 19,995 m
- Elevation angle accuracy: 3.0 mils (1 sigma)
- TLM-2H: Can detect and display DLDM spot up to 2 km day or night
- DLDM designation range:
  - >5 km day and >3 km thermal (stationary targets)
  - >3 km day and >3 km thermal (moving targets)



- Codes: All NATO Band I & II
- System Operation: Menu-driven software
- Data Interface: RS-485 / RS-232
- Video Interface: RS-170 output

## Target Locator Module (TLM-2H)

- Size: 16.9 x 10.6 x 7.5 inches
- Weight: 14.5 lbs.
- Components:
  - Celestial high accuracy azimuth device
  - Digital magnetic compass (DMC)
  - Embedded GPS / SAASM receiver
  - Day camera with high-resolution CCD

- Cooled mid-wave IR detector
- Eyesafe laser rangefinder (ELRF)

## Diode Laser Designator Module (DLDM)

- Size: 9.4 x 9.5 x 6.7 inches
- Weight: 6.2 lbs.
- Type: Nd: YAG with patented athermal diode-pumping technology\*

\*Northrop Grumman Corporation patented efficient diode-pumping technology that was coined "Athermal Diode Pumping" in U.S. Patent No. 7,397,828.

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