

Lightweight Laser Designator/Rangefinder (LLDR) AN/PED-1

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



MISSION

Provides the dismounted Fire Support Teams, Combat Observation and Lasing Teams, and Scouts with a precision target location and laser designation system that allows them to call for fire using precision, near-precision, and area munitions.

DESCRIPTION

The AN/PED-1 Lightweight Laser Designator/Rangefinder (LLDR) is a crew-served man-portable, modular target locator and laser designation system. The primary components are the Target Locator Module (TLM) and the Laser Designator Module (LDM).

The TLM incorporates a thermal imager, day camera, laser designator spot imaging electronic display, eye-safe laser rangefinder, digital magnetic compass, Selective Availability/Anti-Spoofing Module Global Positioning System (SAASM GPS), and digital export capability. The original LLDR 1 operates on one BA-5699 battery, but it can also use a Single Channel Ground and Airborne Radio System (SINCGARS) battery when laser designation is not required. A new compact laser

designator is being fielded with the LLDR2, which requires less power and operates on one common SINCGARS battery (BA-5390 or BA-5590).

To provide a precision targeting capability to the dismounted Soldier, PM SPTD has developed the LLDR 2H, which integrates a celestial navigation system with the digital magnetic compass in the TLM to provide highly accurate target coordinates to allow the Soldier to call for fire with precision GPS-guided munitions.

The TLM can be used as a stand-alone device or in conjunction with the LDM. At night and in obscured battlefield conditions, the operator can recognize vehicle-sized targets at more than 3 kilometers. During day operations, targets can be recognized at more than 7 kilometers. The LDM emits coded laser pulses compatible with DoD and NATO laser-guided munitions. Targets can be designated at ranges greater than 5 kilometers.

Weight (total system): 35 pounds (LLDR 1), less than 30 pounds (LLDR 2), and less than 32 pounds (LLDR 2H) for a 24-hour mission

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

- **FY11:** Completed fielding of LLDR 1
- **FY11:** Began fielding reduced weight LLDR 2 units supporting Operation Enduring Freedom (OEF)
- **FY11:** Awarded a delivery order for high-accuracy LLDR 2H production

PROJECTED ACTIVITIES

- **FY12:** Continue fielding LLDR 2 in accordance with Headquarters, Department of the Army guidance
- **FY12:** Award a new contract to retrofit existing LLDRs (1 & 2) to the high-accuracy LLDR 2H configuration
- **FY12:** Accept first deliveries of the LLDR 2H and begin fielding

ACQUISITION PHASE

Technology Development

Engineering and Manufacturing Development

Production and Deployment

Operations and Support

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FOREIGN MILITARY SALES

None

CONTRACTORS

Northrop Grumman Guidance and
Electronics, Laser Systems (Apopka, FL)

