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

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, Product Manager Soldier Precision Targeting Devices has developed the LLDR 2H (AN/PED-1A), 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. A Modification of in Service Equipment program will retrofit fielded LLDR 1 and 2 systems with the LLDR 2H precision targeting capability beginning in FY13.

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 three kilometers. During day operations, targets can be recognized at more than seven kilometers. The LDM emits coded laser pulses compatible with DoD and NATO laser-guided munitions. Targets can be designated at ranges greater than five 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

**In this Publication**
None

**Other Major Interdependencies**
SAASM

## PROGRAM STATUS

- **3QFY12:** First LLDR 2H retrofit contract awarded
- **4QFY12:** First production deliveries of LLDR 2H

## PROJECTED ACTIVITIES

- **FY13:** Follow-on developmental test for LLDR 2H
- **FY13:** LLDR 2H materiel release and intial fielding
- **FY13:** LLDR 2H multiple-year retrofit contract award

ACQUISITION PHASE

| Technology Development | Engineering & Manufacturing Development | **Production & Deployment** | Operations & Support |
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## Lightweight Laser Designator Rangefinder (LLDR) AN/PED-1 & AN/PED-1A

**FOREIGN MILITARY SALES**
None

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