

# CLDR

## Common Lightweight Designator/Rangefinder



The CLDR is an essential part in the modernization of the AC-130 Gunship and AH-1Z Hawkeye fire control system by providing an essential upgrade to the platforms' laser designation capability. This enhanced capability is due the use of a state-of-the-art diode pumped laser transmitter core that allows the system to have high power, low divergence and high reliability. This also allows for the laser to output three different wavelengths each suited for their own applications: designation, eyesafe rangefinding, and alignment. The CLDR provides a solid core to increase the capability and reliability of the new fire control systems.

### Features

- Single Integral Unit
- Transmitter
- Electronics
- Beam Expander
- Air Cooled
- 3 Color laser
- NATO PRF/PIM code capable

### Applications

- Fixed wing targeting pods and gimbals
- Rotary wing targeting pods and gimbals
- Currently being fielded on AC-130 Gunship and AH-1Z Hawkeye

## Common Lightweight Designator/Rangefinder

1.06 micron wavelength

- Designation Range > 15Km
- Rangefinding Capability > 15Km
- Designator Divergence < 0.15 mRad

1.57 micron wavelength

- Eyesafe Rangefinding Capability > 15Km
- Eyesafe Rangefinder Divergence < 0.15 mRad

0.83 micron wavelength

- Currently used for internal alignment and boresighting

## Physical Description

- Weight: 18.6 lbs.
- Integrated Gimbal Size 19 in.
- Aperture Size 75mm
- Single LRU

