

# PDFCS

## Primary Direct Fire Control System



The Primary Direct Fire Control System (PDFCS) was developed as a derivative of the Day/Night Range Sight (DNRS) series of sights for medium and large caliber cannon turret applications (30mm - 120mm) where a ballistic computer is desired to ensure a high first-round hit probability for stationary and "fire on the move" target engagements. The computer provides the correct cannon super-elevation and azimuth lead angle based upon ammunition ballistics, target range, and inputs from various sensors.

The PDFCS configuration includes Line Replaceable Units (LRUs) that are common with the DNRS - Eyesafe Laser Integrated Periscope (ELIP), Thermal Camera, and Biocular Displays. In addition to the ballistic computer, the PDFCS also differs from the DNRS configuration by replacing the mechanical sight head with a single or dual axis stabilized sight head assembly.

### Features

- Day and Night Range Sight including SIPC
- Fire Control Computer
- Meteorological Sensor
- Stabilized Head Mirror
- Fire on the Move

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### Technical Specifications

- Performance Data
- Single axis stabilized head mirror including LOS electronics
- 288 x 4 Thermal sights
- Eyesafe laser integrated periscope (ELIP) included 12 x DVO
- Fire control ballistics computer
- Commanders/Gunners displays

### Turret Upgrade Candidates

12.7mm MG and 40mm ACL



90mm



105mm

