



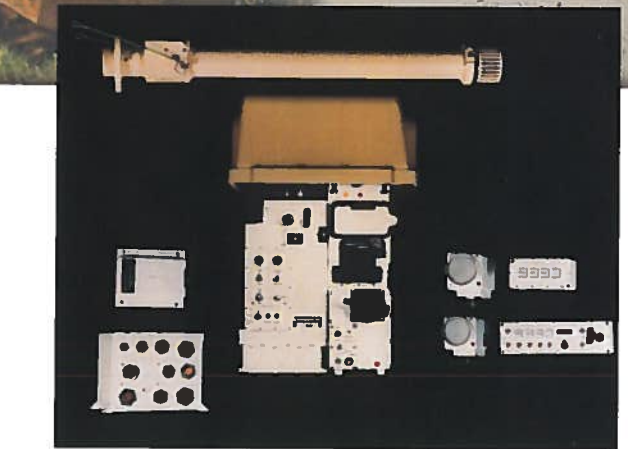
## PDFCS

### Primary Direct Fire Control System



The ADS 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 Stabilized Observation & Targeting
- Shoot-on-the-move
- Full Fire Control Solution
- Meteorological Sensor
- Gunner Control Panel with Manual Meteorological Data Entry
- Commander Remote Thermal Display

## Technical Information

- Single/Dual Axis Stabilized Head Mirror
- 2 FOV Gen II (288x4) Thermal Sight
- 8x DVO Day Sight
- 10km Eyesafe Laser Range Finder
- Programmable Ballistic Computation
- NATO Type Aiming Reticle with Stadiametric Back-up
- High Resolution Biocular Displays

## Turret Applications

12.7mm MG & 40mm ACL



105mm



90mm



# ADS

Advanced Defense Systems, Inc.

[www.ads-inc.com](http://www.ads-inc.com)  
220 Daniel Webster Highway  
Merrimack, NH 03054  
Tel: (603) 595-5160 • Fax: (603) 595-5175

