

# C-FLEX C-FIRE

## GUN FIRE CONTROL

C-Fire Fire Control System (FCS) provides full and effective control of naval gun systems during engagements for anti-air, anti-surface and naval gunfire support and is designed to operate as an integral element of the C-Flex Mission system.

C-Fire may include a C-Fire Electro Optical (EO) Director or a Rada-Electro Optical (REO) Director with associate equipment. The C-Fire system can detect and track targets, day, or night throughout the full operating envelope of the gun system. Target range can be measured using the Eye-Safe Laser Rangefinder that is aligned with other sensors. In addition to the optical tracking day and night (C-Fire EO) the C-Fire REO provides a true all-weather capability utilizing the Doppler Radar. For very low flying targets the combination of the Doppler radar and precision optical sensors.



## Operational Capabilities

- Deterrence
- Self-Defense (AAW/ASuW)
- Naval Gunfire Support (NGS)

## Value of C-Fire

- Doppler radar for long range acquisition and precision tracking of multiple targets
- Day and night detection capability and tracking with Daylight & IR Camera
- Fully integrated platform, low weight and low vessel impact
- All Weather capability using Tracking Radar with excellent clutter suppression (REO)
- Radar and/or Electro-Optical-based gun engagements against air or surface targets.
- Designed to be operated as a fully integrated element of a multiple MFC based CMS
- Automatic target acquisition and tracking in both radar and EO mode
- Ballistic prediction for all calibers of naval guns including extended range ammunition

## Technical Features

- Designed for naval weapons from small to medium caliber (30mm – 127mm)
- Gun Interface Support: RS422, Ethernet, Synchro or MIL-STD-1553
- REO Radar Technology: FMCW (X-band)
- Ballistic processor for multiple types of ammunition

