

**SMART
AND TO THE
POINT.**

C-DOME™ Mission Module Naval Air Defense Solution

Maritime Application of the Combat-Proven IRON DOME®

Defending Combat Vessels & Strategic Assets Against Maritime Threats

Naval arenas around the world, many formerly considered unthreatened, are becoming increasingly challenged by a variety of threats including long-range anti-ship missiles and UAVs. However, despite this growing danger, navies worldwide operate vessels that lack inherent, fixed self-defense capabilities – and often employ smaller, multi-purpose platforms for missions that include patrols, MCMs, and defense of assets such as gas and oil rigs and Exclusive Economic Zones (EEZs) – putting these unequipped ships at significant risk.

To address this ever-growing capability gap, RAFAEL has developed the C-DOME Mission Module concept for local defense applications, providing advanced solutions for OPVs, auxiliary ships, and other naval support ships and assets, enabling them with advanced air defense capabilities, without the need for a full platform integration.

Benefits

- Based on the IRON DOME air defense system, with over 12 years of proven operations and 5,000 combat interceptions
- Powerful, multi-interceptor defense against multiple simultaneous threats
- Plug & Play; simple and speedy installation, seamless
- Fit with variety of classes and platform types
- Simple integration and connectivity with ship's systems or land-based systems
- Open architecture, compatible with ship's own sensors and CMS
- Easily upgradeable, adaptable & maintainable; standard components
- Compact & portable; minimal footprint – weight and size
- Operated locally or remotely by 1-3 operators
- Standalone or centralized control
- Extremely low All-Up-Round (AUR) costs
- Full support and training





Proven Technology and Easy Integration

C-DOME is the maritime application of the combat-proven IRON DOME air defense system, with over 12 years of operational proof, and over 5,000 combat interceptions. Operational in the Israeli Navy, C-DOME is an agile, quick-reaction, small-footprint, ship-based, multi-interceptor system. It effectively protects combat vessels, mission task forces, and strategic assets against multiple, simultaneous attacks from a wide range of modern maritime threats, including surface-to-surface cruise missiles, land-based missiles and UAVs.

RAFAEL's C-DOME Mission Module concept does not require deck penetration, vessel hull retrofit, cable routing or complex integration with the ship's systems.

C-DOME Components

Launcher module (1-4), each containing twin vertical launchers with 10 Interceptors per launcher, in standard 20-foot ISO loading surface (20 Interceptors per launcher).

Command, Control and Detection Module: C-DOME Command and Control (C2) system and multi-purpose 3D-Radar (optional for platforms without an air defense radar).

Main Capabilities

- Full hemispheric protection
- Area coverage allows for protection of land-based defended zones
- 20 ready-to-launch VLU interceptors mounted on the vessel
- Quick reaction time
- Proven against saturation attacks

Technical Specifications (for a single 20-interceptor launcher)

Length	6.1m
Width	2.44m
Height	4.4m
Weight	12 tons



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