

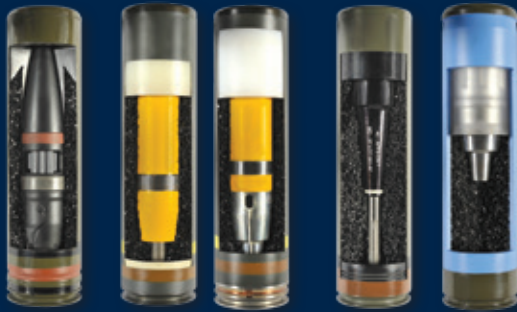
RAPIDFIRE NAVAL

**Anti-Air & Anti-Surface
Defence Gun System
- Sea Proven -**

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/ RAPIDFIRE NAVAL main characteristics



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KNDS France

13 route de la Minière
78034 Versailles Cedex France
Tél. +33 (1) 30 97 37 37
www.knds.com

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KRV-092-EN-06/2024

Key missions

Thanks to its powerful and accurate gun and optronic Fire-Control System (FCS), RapidFire Naval is an autonomous or centralised system.

Designed to counter massive attacks performed with simultaneous heterogeneous air and ground threats:

- **Air targets:** Unmanned Aerial Vehicles (UAV), loitering munitions, helicopters, Fighters Ground Attack (FGA), cruise missiles, RAM, etc.
- **Surface targets:** Unmanned Surface Vehicle (USV), Fast Patrol Boats (FPB), Fast Inshore Attack Craft (FIAC), sea-skimming missiles, etc.

Adapted to control missions (police, antipiracy, anti-trafficking,...) through warning shot firing capability and to self-defence mission even when docked or moored.

Operational benefits

Precision and high firepower:

- High firing precision for an unequalled Probability of Kill (PK) thanks to sensor/effector colocalisation
- Cost effective engagement (few rounds per target neutralisation)
- The power of a 40mm system with the high compactness of 40 CTAS
- Firing rate up to 200 rounds/min
- Up to 140 ready-to-fire rounds in turret

Fast into action:

- Day and night operation
- Short reaction time from target detection to firing
- Automatic firing proposition upon threat detection
- Highly automated: man-in-the-loop only for weapon engagement and firing order

Centralised or autonomous mode:

- Centralised mode: reception of Target Designation (TD) through the Combat Management System (CMS)
- Autonomous mode without any CMS connection
- Equal firing performances in centralised or autonomous mode
- Only one operator for target identification, weapon engagement and firing



Key features

In-service in French Navy, the RapidFire Naval system integrates: optronic Fire-Control System (FCS), remote controlled turret including gyro-stabilised 40 CTAS (Cased Telescoped Armament System), operator firing console, ammunition.

Fire Control System:

- Dedicated tracking and firing algorithms
- High performance gyro-stabilised optronic sight head: infrared, daylight and laser range finder
- **Optronics enable:**
 - Visual identification
 - Target tracking
 - Real-time neutralisation assessment

Effective range: Up to 4000m

Adapted to target:

Air and ground defence capabilities with real-time selectable ammunition:

- 1 Anti-Aerial Air Burst (A3B) integrating hundreds of tungsten pellets
- 2 Two types of fused High Explosive General Purpose Round (GPR) ammunition:
 - Point Detonating (PD)
 - Air Burst (AB)
- 3 Armour Piercing Fin Stabilized Discarding Sabot (APFSDS) against armoured vehicle penetrates >140mm of Rolled Homogeneous Armour at 1500m
- 4 Target Practice (TP)



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