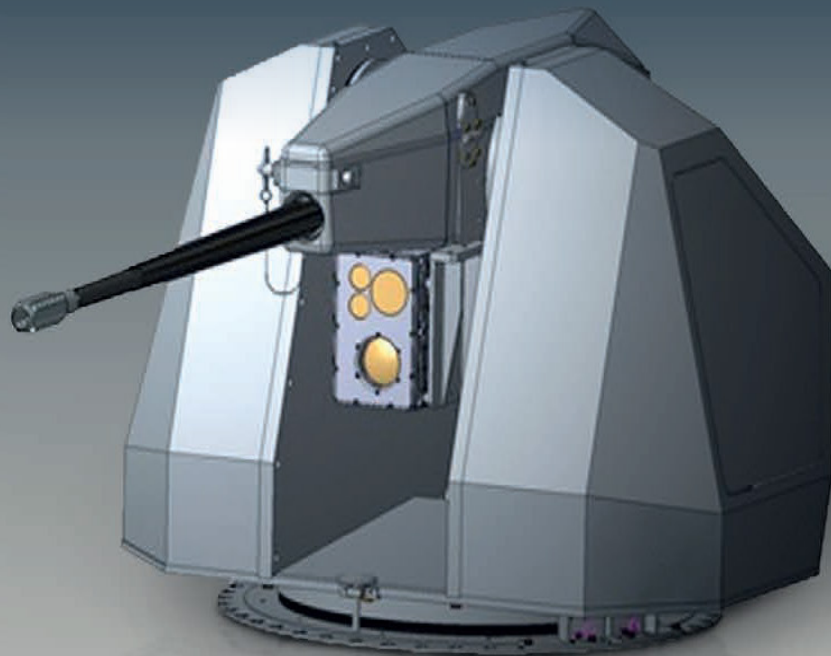


LIONFISH® 20



The LIONFISH® 20 is a remotely-controlled small caliber naval gun system characterized by long operative range and high rate of fire.

Thanks to its compact dimensions and light weight, LIONFISH® 20 allows providing very small surface vessels with the capability of neutralizing asymmetric surface threats, helicopters and drones, besides to be usable onboard larger vessels as secondary armament.

The LIONFISH® 20 is fitted with the OERLIKON CANNON® 20 mm KAE gun, feed by a 250 ready to fire rounds magazine.

It can fire all types of 20 x 128 mm ammunitions, prescribed by the cannon's manufacturer, such as: SAPPIE-T, TP-T, AP-T, HEI-T.

The aiming system is fully stabilized in elevation and azimuth by means of powerful servo-systems in closed loop with both two independent gyros and two tachometers for redundancy.

All the components are fully protected by a stealth shield to minimize the RCS and allow the operation in the most severe environments.

The LIONFISH® 20 is remotely controlled through its own Local Control Console and it is able to autonomously determine the stabilized firing coordinates by performing ballistic and target trajectory calculations.

The Electro-Optical Director is constituted of a highly accurate sensors suite (with an automatic tracking functionality) constituted of a daylight camera, an IR camera and a LASER Range Finder.

The LIONFISH® 20 could be also fully controlled by the external Firing Control System by activating a proper switch of the Remote Control Console, in such a case target acquisition, target engagement and firing are performed by the FCS itself.

KEY FEATURES

- Effective against any asymmetric surface threats, helicopters and drones;
- high rate of fire;
- fully stabilized on two independent axes providing great accuracy;
- compact dimensions and light weight;
- high reliability and ease of maintenance;
- stealth design;
- innovative and user-friendly Local Control Console;
- logistic communality inside LIONFISH® family;
- no deck penetration.



TECHNICAL SPECIFICATIONS

Caliber	20 x 128 NATO
Rate of fire (¹)	Controlled mode: 100 to 300 RPM
Burst mode	up to 1000 RPM
Ready to fire rounds	up to 250
Effective range	> 2000m
Training range	-155° to 155°
Elevation range	-30° ± 70°
Training and elevation speed (acceleration)	57°/s, (115°/s²)
Mass without ammunition	450 Kg
Day Camera (¹)	9.5 / 4.8 / 2.7 Km D / R / I
IR Camera (¹) (²)	12 / 6 / 3.3 Km D / R / I
LRF (¹)	5.5 Km

(¹): Typical performances achieved with respect to a NATO standard target.

(²): Valid for cooled sensor, uncooled one is available too.



Local Control Panel

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