

SEASNAKE20

LIGHT NAVAL GUN SYSTEM

The SeaSnake20 Light Naval Gun System is an improved remote controlled, semi-automatic, fully stabilized 20 mm medium caliber gun system with a mounted or detachable EO/IR-sensor array (SeaVision®) on a pan&tilt sensor platform.

The sensor platform can be controlled and directed independently from the gun cradle's present position or gun bore line. The new multi-mode-multi-target tracker (MM-T) reflects state-of-the-art technology and enables the system for simultaneous, numerous target tracking while offering the flexibility of a semi-autonomous target selection. STANAG interfaces ease the option for integration into the CMS or, selectively, the choice of a "stand-alone" effector, utilizing standard power supply sources with no deck penetration required.

The light-weight, low signature solution favors the SeaSnake20 System as a main armament for smaller vessels (i.e patrol boats) or as side armament for larger vessels (corvettes, frigates) with an increased flexibility of positioning for maximum effect due to the carbon-based reduced weight and space required for installation.

The navalised, reliable KAE20mm gun has a high rate of fire and great precision while offering new operational

modes from a single shot capability up to flexibly timed bursts and controlled, automated releases for optimum hit probability at reduced ammunition consumption in relation to target size and distance. Latest Rheinmetall ammunition technology and a well-balanced compromise between weight, size, kinetic energy and effectiveness augment the 20 mm medium caliber layout.

The 20 mm APDS-T (Armor Piercing Discarding Sabot-Tracer) round represents a sub-caliber kinetic energy round with a high velocity and high fragmentation effect upon impact and therefore especially tailored for the gun's multi-role, naval application. The upgraded ballistics, a short reaction time and new fire control features qualify the SeaSnake20 as a weapon of choice against a wide array of targets, including asymmetric threats.

KEY FEATURES

- High rate of fire
- High accuracy & lethality
- Flexible integration into CMS
- Reduced ammunition consumption
- Light-weight, low signature (stealth)
- No deck penetration required

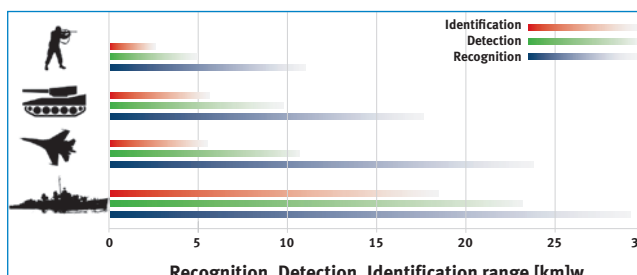
TECHNICAL DATA AND DIMENSIONS	
Height	1,284 mm
Length	2,930 mm
Width	1,915 mm
Weight (on deck)	460 kg
Weight (total; with ammo; 240 rds)	556 kg
Azimuth	±170 deg
Elevation	-25 deg to +60 deg
Max. angular rate	90 deg/s
Max. angular acceleration	≥120 deg/s ²

2x LASER RANGE FINDER	
Laser 1/Type	1.5-micrometer diode laser
Range	≥10,000 m
Wavelength	~1.55 μm
Pulse rate	25 Hz
Classification (IEC 60825-1 2014)	1
Laser 2/Typ	Diode pumped Er: Glass laser
Range	≥40,000 m
Wavelength	1,535 nm
Pulse rate	10 Hz
Classification (IEC 60825-1 2014)	1 M (eye-safe)

3x DAYLIGHT CAMERAS	
Spectral band	Visible
CMOS sensor	2,064 x 1,544 pixel
OCU display	1,024 x 768 pixel
Camera 1: FoV1 Digital zoom	1.40°
Camera 1: FoV2 Fixed optic	2.80°
Camera 2: FoV3 Digital zoom	6.67°
Camera 2: FoV4 Fixed optic	13.34°
Camera 3: FoV5 Digital zoom	16.00°
Camera 3: FoV6 Fixed optic	32.00°

WEAPON/PERFORMANCE	
Gun	KAE 20 mm cannone
Caliber	20 mm x 128
Rate of fire nominal	1,000 rds/min
Rate of fire min.	1 rd/min
Muzzle velocity	1.050 – 1.150 m/s
Shot burst(s)	Scalable from 0.2 s to 6.0 s
Shot single	High precision mode
Auto mode	Computer aided rounds release

COOLED IR SENSOR/THERMAL IMAGER	
Type	SAPHIR/Long-life
Spectral band	MWIR 3 – 5 microns
Detector	1,024 x 768 pixel
OCU display	1,024 x 768 pixel
FoV1 Fixed optic	1.40°
FoV2 Fixed optic	6.67°



The example configuration shown can be individually adapted on request due to the system modularity.

The scope of supply, appearance, performances, dimensions and weights of the system correspond to the knowledge available at the time of printing. Deviations from the illustrations in color and form, errors and misprints as well as changes are reserved.

KAE 20 MM

