

SEASNAKE 27

The SeaSnake is a remote-controlled, semi-automatic, stabilized CIWS defense system with an optionally integrated or detachable E/O sensor unit on a stabilized pan and tilt platform that can be moved and steered independently of the weapon.

The multi-target tracker integrated in the system represents state-of-the-art technology at the highest level and enables, among other things, simultaneous multiple target tracking and automatic target recognition.

The bus system used in the SeaSnake, which is qualified in accordance with IEC 61508 & MIL-STD-882, facilitates the integration into a Combat Management System. In addition, the SeaSnake can also be operated independently as a “stand-alone” system.

The reduced weight, lower silhouette and compact stealth design, in combination with its outstanding performance, favours the SeaSnake as primary armament for smaller vessels such as patrol boats and speedboats or as secondary armament for larger ships such as corvettes and frigates. The modular architecture enables the integration independently of ship types. The BK27 (27 mm x145) weapon unit is capable of deploying various types of ammunition with a high rate of fire and great precision. Different operating modes offer the possibility to choose between single shot and manually adjustable bursts (length & cadence) or system supported in automatic mode.

The automatic firing mode optimizes the hit probability while reducing the amount of consumed ammunition depending on the distance and size of the threat.

The ammunition technology of the Frangible Armor Piercing Discarding Sabot (FAPDS), as a sub-caliber ammunition with high kinetic energy, supports the high penetration capability upon impact and a high splintering, cascading effect with cascading damage effect in the depth of the target. It was developed as combat ammunition specifically for the 27 mm SeaSnake in its multi-role deployment and is characterized by a high efficiency against a variety of threats.

The SeaSnake thus takes the role of the preferred effector against asymmetric threats or surface units in swarming and high-agility, dynamic tactics.

KEY FEATURES

- High rate of fire and ammunition efficiency
- High precision
- Flexible integration options (CMS & ship type)
- Reduced ammunition consumption
- Reduced weight and signature
- No deck penetration required

STATUS

Available in 2020

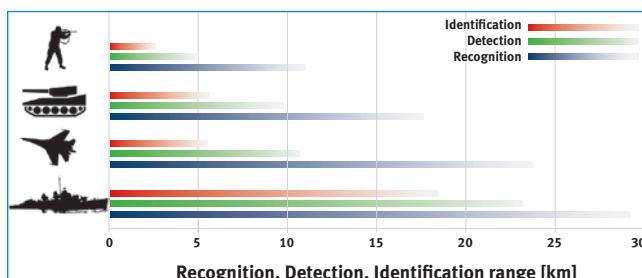
TECHNICAL DATA AND DIMENSIONS	
Height	1,284 mm
Length	2,780 mm
Width	1,915 mm
Weight (no ammunition)	449 kg
Weight (225 rds ammunition)	574 kg
Azimuth	±170 deg
Elevation	-25 deg to +60 deg
Max. angular rate	90 deg/s
Max. angular acceleration	≥120 deg/s ²

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/Type	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	
Type	BK27 (M) Revolver cannon
Caliber	27 mm
Max. rate of fire nominal	1,700 rds/min
Min. rate of fire	1 rds/min
Muzzle velocity	1,100 m/s
Shot burst(s)	Scalable from 0.2 s to 6.0 s
Single shot	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.

BK27 (M)

