

SEASNAKE 30

The SeaSnake is a remote-controlled, semi-automatic, stabilized CIWS defense system with an optional 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 EN 61508 & MIL-STD-882, facilitates integration into a Combat Management System. In addition, the SeaSnake can also be used independently as a “stand-alone” system.

The reduced weight, low silhouette and compact stealth design, in combination with its outstanding performance, favors 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 independent of ship types.

The KCE-30/ABM weapon unit, caliber 30 mm x 173 integrated in the 30 mm SeaSnake variant, is capable of employing different types of ammunition with a high rate of fire and great precision. Different operating modes offer the possibility

between single shot and manually adjustable bursts (length & cadence) or the selection of system assistance in automatic mode. The automatic firing mode optimizes the probability of hit while reducing the amount of ammunition consumed depending on the distance and size of the threat.

The ammunition technology of the Missile Piercing Discarding Sabot (MPDS), as a sub-caliber ammunition with high kinetic energy, has a high penetration ability on impact. In addition, the Air Burst Ammunition (ABM), thanks to the integrated ABM programming module, is utilized.

The SeaSnake thus assumes the role of the preferred effector against both air targets and asymmetric threats from overwater targets in swarming or high-agility, dynamic tactics.

KEY FEATURES

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

STATUS

Available in 2020

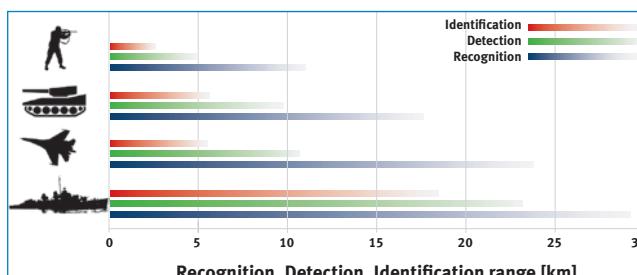
TECHNICAL DATA AND DIMENSIONS	
Height	1,284 mm
Length	2,890 mm
Width	1,915 mm
Weight (no ammunition)	479 kg
Weight (147 rds ammunition)	619 kg
Azimuth	±170 deg
Elevation	-25 deg to +60 deg
Max. angular rate	90 deg/s
Max. angular acceleration	≥120 deg/s ²

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	KCE30/ABM Revolver Cannon
Caliber	30 mm x 173
Max. rate of fire nominal	1,100 rds/min
Min. rate of fire	1 rds/min
Muzzle velocity	1,050 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
Optional accessories	Air burst ammunition module

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.

KCE30/ABM



ABM MODULE

