SNAKE12.7

The remote-controlled SNAKE 12.7 weapon station is a new member of the innovative Rheinmetall product line of the latest generation for self-protection, on tracked vehicles and wheeled vehicles, even under the most difficult operating conditions. The modular concept enables the integration of different upgrade kits for the installation of weapons in caliber 5.56 x 45 mm to 12.7 x 99 mm or GMW 40 mm.

The integrated vision system (FlexEye[®]) represents the latest day and night vision (IR) sensor technology and thus enables the simultaneous, weather-independent display of several targets.

Using the latest image processing algorithms, movements of the barrel axis, caused by ballistics, can be compensated and allows for a coaxial assembly on a 2-axis stabilized platform. In addition to manual target tracking, a powerful tracker also enables automatic target tracking.

All data relevant for fire control are processed in real time and provides the system with a high level of precision that is relevant to the application and performance.

The use of standard interfaces (e.g. NGVA) simplifies the system's integration into various vehicle classes.

PERFORMANCE FEATURES

- High First-Hit Probability
- High angular precision and speed
- Ability to fight dynamically
- Automatic Target Tracking
- Self-stabilized platform
- Possibility of integration into a CMS

The carbon-based mount technology enables a consequent reduction in weight and vibration, which, in conjunction with the shape and design, offers a significantly reduced signature.

The weapon station sets standards in the areas of protection class, operational capability and dynamic targeting of asymmetrical threats due to the cross-sectional use of innovative software modules within the latest Rheinmetall Remote Control Weapon Systems.

The combination of an intuitive operating concept and intelligent assistance systems represents a noticeable relief for the operator in combat situations. The SNAKE 12.7 weapon system has the ability to integrate additional operating consoles and also meets the safety requirements of IEC 61508.

- Light weight, low signature
- Underwater ability after preparation
- Optronic cleaning system
- NGVA-Interface
- Fitted for ROSY, AGDUS, ballistic protection
- IEC 61508 / MIL-STD-810H
- ITAR-free



MONITOR

- Infrared-Touchscreen
- Military hardening
- Suitable for night-time operations



JOYSTICK

- Ergonomic design
- Left- or right handed operable
- Individually configurable
- Complete operating redundancy



Height= 870 mmLength= 1.770 mmWidth≈ 970 mmWidth≈ 970 mmWeight (empty, incl. Flex-Eye®-Sensor)= 134 kgWeight (empty, incl. Weapon)= 174 kgWeight (total, incl. Weapon)200 rounds= 200 kgAzimuthnx 360°Elevation-20° to +60°Max. angular speed120°/s'WEAPON ADAPTIONS-CannonMC-SA1 (HaK), Caliber 12.7 mm x 99CannonMG-SA1 (HaK), Caliber 7.62 mm x 51Grenade launcherGMW (HaK), Caliber 7.62 mm x 53SENSOR DATA FLEX-EYE-IR cameraSAPHIR / UC 5.9Spectral band8-12 µmDetector640 x 480FoV 15.9°FoV 225.3°Range within FoV 1 i.a.w. STANAG 4347 σ=0.2Identification > 1.500mRecon > 2.820mDetection > 7.590mColor camera 1CMOSSpectral bandVisibleSensor2.064 x 1.544FoV6.7°Range within FoV VR = 23kmIdentification > 2.700mRecon > 2.830mDetection > 2.830mSpectral bandVisibleSensor0.064 x 1.544FoV3.75°Color camera 2CMOSSpectral bandVisibleSensor0.064 x 1.544FoV3.75°Laser Range FinderDiode LaserRange Viave length1.000 m / -1.55 µmFrequency / Accuracy (10)25 Hz / <1m	TECHNICAL DATA & DIMENSIONS	
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	Classification (IEC60825-1 2014)	1

Note: 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.