NATTER 7.62

The remote-controlled weapon station NATTER 7.62 is another 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 conditions. The modular concept enables the integration of different kits for holding weapons in caliber 5.56 x 45 mm to 7.62 x 51 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 pipe axis, caused by ballistics, can be compensated and thus allow 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 give the system a high level of precision that is relevant to the application.

The use of standard interfaces (e.g. NGVA) simplifies system integration in various vehicle classes.

The carbon-based mount technology enables a significant 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 RCWS Systems.

The combination of an intuitive operating concept and intelligent assistance systems represents a significant relief for the operator in combat situations. The NATTER 7.62 has the ability to integrate additional control consoles and also meets the safety requirements of IEC 61508.

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
- 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

TECHNICAL DATA & DIMENSIONS	
Height	≈ 610 mm
Length	≈ 1.100 mm
Width	≈ 1.100 mm
Weight (empty, incl. Flex-Eye®-Sensor)	≈ 78 kg
Weight (empty, incl. Weapon)	≈ 89 kg
Weight (total, incl. Weapon/250 rounds	≈ 100 kg
Azimuth	n x 360°
Elevation	-15° to +85°
Max. angular speed	120°/s
Max. angular acceleration	≥ 120°/s²

WEAPON ADAPTIONS	
Cannon	MG4, FN-MAG M-249 LMG or FN Minimi; Kaliber 5.56 x 45 mm
Cannon	MG-5A1 (H&K), Kaliber 7.62 mm x 51 mm

SENSOR DATA FLEX-EYE	
IR camera	SAPHIR / UC 5.9
Spectral band	8 -12 µm
Detector	640 x 480
FoV 1	5.9°
FoV 2	25.3°
Range within FoV 1 i.a.w. STANAG 4347 σ = 0.2	Identification › 1.500 m
	Recon › 2.820m
	Detection › 7.590m
Color camera 1	CMOS
Spectral band	Visible
Sensor	2.064 x 1.544
FoV	6.7°
Range within FoV VR = 23km	Identification › 2.700m
	Recon › 5.330m
	Detection › 12.580m
Color camera 2	CMOS
Spectral band	visible
Sensor	2.064 x 1.544
FoV	23.75°
Laser Range Finder	Diode Laser
Range / Wave length	≥10.000 m / ~1.55 µm
Frequency / Accuracy (1σ)	25 Hz / ‹ 1m
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.

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