

REMOTE CONTROLLED WARRIOR ANTI-TANK SYSTEM SPG-9 KUBER



AQAP 2110

DESCRIPTION

THE REMOTE CONTROLLED SYSTEM WARRIOR SPG-9 KUBER is most effective Anti-tank System, designed as very powerful and effective weapon for destruction of armored vehicles, including armored personnel carriers, tanks, infantry fighting vehicles, and lightly armored vehicles.

Also, the use of fragmentation grenades (OG-9V) allows for effective engagement of enemy infantry in covers.



On the modern battlefield, safety, efficiency and flexibility are key factors for success. Having these key factors in mind, we developed this system as a complement to the Warrior SPG-9 with manual control – therefore we implemented a remote guidance and firing system that allows the operator to remain in cover without exposing himself to risk.

ADVANTAGES OF WARRIOR SPG-9 KUBER

- The longer barrel of the Warrior SPG-9 compared to traditional SPG-9, as well as the complete lack of recoil, also contribute to the high efficiency of the system. Thanks to these improvements, the Warrior SPG-9 is the most accurate SPG-9 grenade launcher available in the world, because of:
 - Increased muzzle velocity – The longer barrel allows the gases from the charge to act on the projectile for a longer period of time, increasing its velocity. This also improves firing range and penetration performance.
 - More stable trajectory – Higher muzzle velocity reduces the influence of wind and other external factors, leading to more accurate shots at longer distances.

One weapon – many possibilities! The SPG-9 offers a wide choice of grenades, making it a universal solution for various combat scenarios. Whether it is destroying enemy tanks, eliminating fortifications or clearing positions, the SPG-9 always has the right grenade for the task!

INCREASED OPERATOR SAFETY

- The remote control allows real-time surveillance, aiming and firing from a hidden and distant position, ensuring greater safety for the shooter;
- The operator can fire with the SPG-9 from an armored personnel carrier or pickup;
- The likelihood of personnel losses in the event of a counterattack is reduced.

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IMPROVED ACCURACY AND EFFICIENCY

- Electric motors provide more precise guiding and aiming in horizontal and vertical planes, which is especially important for more distant targets. The PGDN-9VIR sight with remote display ensure better visibility, increasing the probability of an accurate shot.
- The sight ensure aiming, observing the battlefield, and firing during the Day and Night.
- Functions such as ZOOM and color reticles improve target recognition in different conditions (night, fog, smoke, etc.).
- Much higher magnification of the sight up to 25x;
- Much higher field of view of the sight;

FLEXIBILITY AND MULTIFUNCTIONALITY

- Ammunition selector knob allows quick switching between reticle for cumulative (PG-9) and fragmentation grenade (OG-9V), which facilitates adaptation to different combat missions.
- Manual control remains active, which means that in the event of necessary, the grenade launcher can be used traditionally



BETTER ADAPTABILITY IN MODERN WARFARE

- Remote control allows integration into autonomous platforms – for example, mounting on Armored vehicles, pickup trucks and jeeps.
- The weapon can be used in urban environments or positional warfare where operators must remain hidden.

REDUCED FATIGUE AND FASTER AIMING

- Electric guidance and aiming eliminates the need for physical effort to rotate and lift the Grenade Launcher, which reduces shooter fatigue.
- Remote guiding and aiming can be faster and smoother, especially when tracking moving targets. The remote control allows adjustment of the weapon's guiding speed depending on the angle of inclination of the joystick grip;

COMPLETE SET INCLUDE:

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|---|--------|
| • Anti-tank Grenade Launcher WARRIOR SPG-9 | - 1pc |
| • Warrior tripod with electric motors and limit switches for electric drive and with flywheels for manual guiding | - 1pc |
| • Optical-digital Day/Night Sight PGDN-9VIR | - 1pc |
| • Remote control unit RCU-9, including | - 1pc |
| - Remote display for real time aiming and observing of battlefield from distance | |
| - Joystick with buttons and selector knobs for remote guidance of grenade launcher and remote firing | |
| - Buttons for remote control of the Sight PGDN-9VIR | |
| • -Cable for remote control | |
| • External power supply – battery 12V | - 3pcs |

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HOW DOES THE SYSTEM WORK? THE SYSTEM CONSIST OF:

- ✓ Warrior SPG-9 equipped with a tripod and electric motors for precision guidance – the grenade launcher can rotate both horizontally and vertically thanks to electric motors powered by a 12V battery.
- ✓ Remote Control Unit RCU-9 featuring a joystick, buttons, and a 7" display.
 - Designed to operate with the Day/Night IR sight PGDN-9VIR.
 - RCU-9 allows firing from the Warrior SPG-9 at a distance of up to 50 meters from the grenade launcher.
 - The operator utilizes an intuitive joystick controller, while the optical-digital sight PGDN-9VIR transmits a real-time image to the remote control unit's built-in display.
- The remote control unit features a selector knob and five buttons. By rotating the selector knob, the operator can choose the sight's operating mode:
 - KUM – firing with a cumulative (anti-tank) grenade
 - OSK – direct firing with a fragmentation grenade
 - OSK ind – indirect firing with a fragmentation grenade
 - Live – the sight mode is utilized for observation and surveillance
- The operator can adjust the optical magnification from 1x to 25x by pressing the "Zoom+" and "Zoom-" buttons, depending on the selected mode.
- To take a shot, the operator must first press the joystick's button, followed by the Fire button. This sequence is designed to prevent accidental discharges.
- The "Color" button allows you to change the aiming reticle's color (black, white, or magenta). This feature guarantees optimal visibility of the scale reticle under various lighting conditions on the battlefield.
- ✓ The Optical-Digital DAY/NIGHT PGDN-9VIR sight, equipped with additional functions, supports aiming and firing both day and night.
- ✓ The package includes three batteries, providing 72 hours of firing capability without the need for recharging.
- ✓ Manual control is also an option; if needed, the weapon can be guided manually using traditional flywheels.



OPTIONAL TO THE SYSTEM CAN BE ADDED FOLLOWING IMPROVEMENTS:

- **Adding an automatic tracking system** for 1 object with recognition of a person (up to 1km) / vehicle (up to 1.5km), during the day and in light twilight. this will facilitate automatic target tracking, without the operator being distracted by manual control. Faster response to fire attacks, especially against moving targets. And for easier control – the system keeps the sight on the target, which gives an advantage in dynamic combat situations.

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- **Laser rangefinder up to 2.0km.** Allows precise measurement of the distance to the target, eliminating errors in manual distance estimation. Facilitates correction of aiming and compensation of projectile fall on more distant targets. Improves effectiveness against moving targets by quickly calculating the distance.
- **Thermal imaging channel with 75 mm lens.** Improves the results of combat operations at night and in low visibility conditions (smoke, fog, dust). Improves reconnaissance capabilities, as the operator can detect enemy equipment and infantry even in complete darkness. Reduces dependence on additional lighting (which would give away the position).

TECHNICAL SPECIFICATION

Caliber	73 mm
Dimensions L/W/H (shoot-ready position)	2360/1100/850 mm
Weight of SPG-9 including tripod with electric drives	58 kg
Weight of SPG-9 including tripod and optical sight	59 kg.
Direct firing range with OG-9V	345m
Direct firing range with PG-9	800 m
Aiming range in case of direct firing	1300 m
Maximal firing range (Indirect aiming with fragmentation rounds)	5000m