LAZAR III

Multirole armoured vehicle 8x8

General Features

Lazar 3 is an armored 8x8 wheeled vehicle designed for various applications and missions.

The power train is accommodated in the front right-side of the vehicle in a protected space completely separated from the crew. The central transfer case transmits the torque to all wheels that have independent suspension and provide for the vehicle's high mobility. All the shafts provide power, while the first two steer the wheels.

Lazar 3 has a highly sophisticated, modular ballistic protection. The hull is made of armored steel and can be fitted with a spall liner. The applied ballistic protection can be tailored to the specific needs of the user and allows for application of additional state-of-the-art ballistic protection technologies throughout the vehicle service life. The vehicle floor has two levels of anti-mine protection.

The driver's and commander's space is located in the front of the vehicle. The vehicle has two side doors for the entrance/exit of the driver and the commander. Both the driver and the commander have hatches above their seats. The driver's hatch has a three-position lock, one position being designed for locking the cover while driving with the open hatch. The driver and the commander have each three periscopes available for their use in the vehicle. The driver's seat is ergonomic and adjustable in vertical and horizontal planes. The steering column is also adjustable in height and steering angle.

The crew compartment is located in the rear of the vehicle and provides enough space for various missions. This part of the vehicle can be accessed through the rear ramp, through the two doors embedded in this ramp or through the big hatches on the vehicle roof. The ramp is hydraulic-operated by way of the power train. It can be activated both from the driver's compartment and the crew compartment.

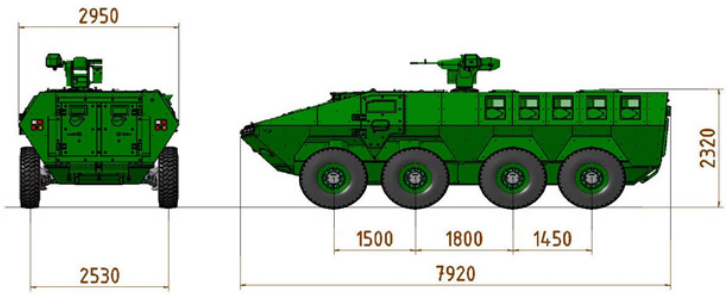
The number of the crew depends on the type of a mission and the weapons used in the vehicle. When the vehicle is equipped with the remote control weapon station (RCWS), the vehicle should be manned with 12 troops (commander, driver, gunner + 9 soldiers), while the version with a turret would be manned with one soldier less.

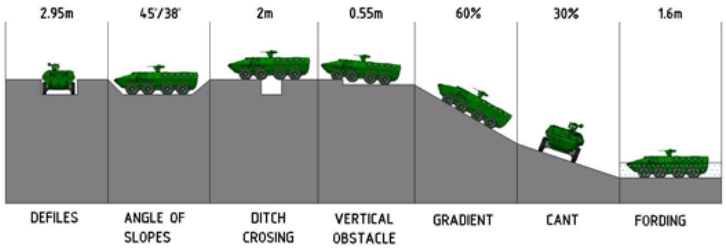
Dimensions and weight

· Length:	7.92m
· Width:	2.95m
· Height (without turret):	2.32m
· Clearance:	0.42m
· Approach angle:	45°
· Departure angle:	38°
· Wheel base:	2.53m
· Spacing between axles:	1.5m-1.8m-1.45m
· Engine space:	$5m^3$
· Crew space:	$15m^3$
· Combat weight (depending of mission and protection):	24-26t
· Max. weight:	28t

Performances

· Maximum speed:	110 km/h
· Gradient:	60 %
· Side slope:	30 %
· Vertical obstacles:	max 0.55 m
· Trench:	2 m
· Turning radius:	11.5 m
· Fording:	1.6 m





Lazar III P infantry combat support vehicle is equipped with a turret-mounted 30/2 cannon and 4 anti-tank missiles NOVA 145 to improve the system's fire support capability close to the line of battle.

NOVA 145 – basic characteristics

Caliber	145 mm
Range	8+ km
Warhead	Shape charge 145 mm, 6.4 kg
Penetrability:	> 1000 mm
	(RHA - Rolled Homogenous Armor with ERA)
Guidance	Mid-course INS Terminal Guidance HH
Target tracking	Via missile:
	LBL from 0.5 to 5 km
	LAL via radio link 0.5 to 8 km

RCWS 30/2 mm

30/2 mm RCWS, armed with a twin-barrel 30 mm cannon (30 x 210 mm) and optoelectronic FCS featuring thermal imaging camera, TV camera and laser rangefinder. It is designed primarily to fight ground targets at effective ranges of up to 2000 m.

Laying:	electric
Traversing:	nx360°
Elevation:	-7° to +50°
Caliber	30 mm
Number of automatic weapons:	2
Loading mechanism:	Automatic loader
Number of rounds in the loader:	220 (110 per weapon)
Muzzle velocity:	1000 m/s
Rate of fire:	500 rds/barrel (1000 rds combined)
Weight:	2000 kg

30 mm 32V01 UNMANNED TURRET

Designed for engagement of enemy personnel (wearing individual body armor), firing assets and unarmored/ lightly armored equipment; reconnaissance and target recognition, surveillance over the environment.
When integrated on armored combat vehicles, the Turret acts as the main armament system.

Armament	30mm 2A42 automatic gun, 7.62 mm 6P7K machine-gun
Sight	TV and TI sight with laser rangefinder
Range of engagement, km:	
- automatic gun	up to 4
- machine-gun	up to 1,5
Angles:	
- elevation	-10° to +60°
- traverse	360°
Ammunition, rds	
- automatic gun	200 (HE), 100 (AP-T)
- machine-gun	1000
Weight (with ammunitions), t	no more than 1,5
Mounting bore diameter, mm	1350

30 mm MB2-04 fighting compartment

Fighting Compartment MB2-04 is designated to fight hostile manpower and soft-skin materiel as well as low aerial targets. Advantages: high efficiency of targets engagement on the move due to employment of biplane electromechanical armament stabilizer; possibility of conducting fire at all angles of armament elevation in twilight (when complete with sight TKN-4GA); entire ammunition load is stored in the armoured space of the vehicle. It incorporates:

30 mm Gun 2A42
7.62 mm Machine gun PKTM
12.7 mm Machine gun «KORD»
System 902V
Electromechanical biplane armament stabilizer.

M20 RCWS with 12.7 HMG

Modern weapon system intended for shooting on ground targets at effective range up to 1500 m. It can be used electricaly and manually.

Type	NSV modernized,
Caliber	12.7 x 108 mm
Operation mode	gas operated
Maximum range of firing:	
- Against aerial targets	~ 1,500 m
- Against ground targets	~ 2,000 m
Machine gun feeding	belt fed
Number of rounds per belt	180
Rate of fire	more than 600 rounds/min
Machine gun weight	28kg

RCWS 20/3 mm

It is armed with a three-barrel 20 mm gun which is primarily intended for destroying and disabling ground targets (weapon systems, mortars, machine guns, airborne troops after landing, off-road vehicles, transporters, fuel trucks, trains, light armoured wheeled and tracked vehicles, enemy troops etc.) and seaborne targets (mobile and stationary vessels) at the effective range of up to 2000 m, as well as airborne targets (slow low-flying aircraft, helicopters, drones, UAVs, cruise missiles etc.) at the range of up to 1500 m.

Start-up mode	electric
Field of fire in azimuth	n x 360°
Field of fire in elevation	-5° to + 70°
Gun type	HISPANO M55
Caliber	20 mm (20 x 110 mm)
Feeding method	drum
Number of rounds per drum	60
Combat set	3 drums on the gun, 3 in the turret, spare drums in the vehicle
Muzzle velocity	850 m/s
Rate of fire	1950-2250 rounds/min
Firing options	single and burst fire, from the middle barrel, two lateral barrels or all three barrels

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Should you have any further enquires, please do not hesitate to contact us at **fdsp@eunet.rs**