



**LPP**  
HOLDING

# MODULAR RECONNAISSANCE AND ANTI-DRONE SYSTEM

MODULAR SUPERSTRUCTURE  
UGV HORNET

This system based on our UGV HORNET is designed for reconnaissance and protection operations. It's capable of monitoring a defined area, searching for threats, and eliminating drones using a controlled weapon station. It enhances situational awareness, reduces risk to personnel, and increases operational efficiency in a wide range of terrains and threats.

## MAIN FEATURES

- + Modular system based on UGV HORNET designed for reconnaissance and counter-UAV operations
- + RS4 weapon turret allows remote operator control and engagement
- + INTERCEPTOR drones expand the range of reconnaissance and response to air threats
- + R30 Radar with the ability to identify air targets, including unmanned vehicles
- + Designed for easy integration of new sensors and payloads to meet changing mission requirements

## PRIMARY MISSIONS

The system can operate independently or as part of a crewed team, providing increased operational capabilities to units.

- + Continuous Reconnaissance
- + Target Identification and Designation
- + Threat Detection
- + Data Fusion for Perimeter Protection
- + Threat Elimination



# TECHNICAL SPECIFICATION

	HORNET BHV-1		HORNET BHV-1
Vehicle type	UGV	Climbing angle with payload	20°
Type	Electro-Hybrid	Length	2820 mm
Weight	750 Kg	Width	1590 mm
Payload	350 Kg	Height	970 mm
Power	4x5 Kw	Length of loading area	2200 mm
Max. speed	55 Km/h	Width of loading area	1250 mm
Max. autonomous mode speed	25 Km/h	Number of axles	2
Crossing angle	145°	Drive type	4x4
Approach angle front and rear	78°	Tyre	235/65/R17
Climbing angle	25°	Optional anchoring equipment	Air-line system
Control modes	Fully autonomou mode, Manual remote control		

## FUNCTIONS

Image Recognition and Classification Perception	Detection and classification of objects using onboard camera systems improves target tracking in complex environments.
Sensor Fusion and Data Association	Combines data from all sensors to create an accurate map of the area and targets. I.e. fusion of data from R30 radar and vehicle cameras to create a single global map of the area.
Simultaneous Localization and Mapping (SLAM)	Creates a map and locates the vehicle simultaneously, allowing continued operation even without GPS (integration of a LPP Inertial Navigation Unit).
Advanced Threat Recognition	Implementation of more sophisticated threat recognition capabilities, including the ability to identify and classify objects - offered integration of R30, cameras, and autonomy software.
Obstacle Detection and Avoidance	Autonomous driving through a custom algorithm and the UGV HORNET unmanned system sensor data.
Human in the loop for critical decisions	Designed to always maintain human oversight of weapons and critical decisions in autonomous driving and UGV HORNET applications.



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