



UGV-150

MULTI-PURPOSE ROBOTIC, REMOTE CONTROLLED
UNMANNED VEHICLE 4X4



MAIN CHARACTERISTICS

Vehicle designed for Land Forces and Special Operations Forces support in Ground Surveillance, Reconnaissance and Target Acquisition missions when deployed in theatre. **UGV-150** can be a part of broader Ground Surveillance System configuration cooperating with air vehicles like UAV (rotary or fixed wing), Aerostats all through Ground Based C3 system within military unit formation.

UGV-150 serves as forwarded Surveillance, Reconnaissance and Target Acquisition tool in Land Forces combat support and can be remote controlled from any deployed Armoured vehicles or other vehicles in theatre. Equipped with Electrooptical head & Laser rangefinder can be effective supporter in multinational deployment in operations abroad as well as in peace time deployment within the territory of state.



UGV-150

Basic tactical and technical characteristics of UGV-150

UGV vehicle producer	INCOFF AEROSPACE Ltd. – Slovak Republic (EU)
Empty weight	30 kg – base model (with optional modifications 50 kg)
Operational weight	150 kg (optional up to 300 kg)
Maximum payload	120 kg (optional modification for up to 250 kg)
Vehicle operator	1 (movement and observation/additional systems operator)
Vehicle operating staff	2 (1 vehicle operator, 1 vehicle operation technician)
Vehicle length	1150 mm
Vehicle width	1100/750 mm
Vehicle height	540 mm and more – according to specialized
Carrying area	max. 343 cm ²
Wheel gauge	930 mm – variable according to specific wheels
Ground clearance	160 mm – variable according to selected tyres
Chassis type	wheeled 4x4 configuration with rigid wheel mounting
Type of wheels	hardened aluminium discs, rubber tyres - more variants
Electrical system	Low-voltage system with DC electric motors (4 pcs)
Accumulator type	Li-ion 8 Ah 24V accus. with series-parallel connection (9 pcs)
Connection type	Special encrypted radio Wi-fi communication dual-channel
Operating costs	20.- EUR/mh
Additional equipment	opto-electronic day TV camera, special universal data-logger, panoramatic fish-eye camera, special SW of image processing, outside environment and orientation sensors, FLIR camera, rigid manipulating arm, additional integrated sensor systems

Driving performance of modular robotic vehicle

Powerplant	
Engine performance	1000W nominal output – max. 3-time overload (3kW)
Drive transmission	single-stage with direct gearing (gear ratio 1:20)
Maximum speed	8 km/h up to 16 km/h
Off-road passability	Over. angle: 30°, Max. trench width: 0,3m, Max. vert. wall height: 0,2m
Maximum range	3.000 m (in open space) / 600 m (in urban area)
Operating time	2 hrs. of operation (full charge), optional expandable for 6 hrs.

Superstructure parameters

DETECTION	man (1,8 × 0,5 m)	4200 m
	NATO (2,3 × 2,3 m)	10100 m
RECOGNIT.	man (1,8 × 0,5 m)	1300 m
	NATO (2,3 × 2,3 m)	3300 m
PT PARAMETERS	LRF radius	6 km
	Motion range in azimuth	n × 360°
	Motion range in elevation	± 90°
	Speed azimuth	max 50°/s
	Speed elevation	max 50°/s
	Operation temperature	-40°C to +60°C

SUPERSTRUCTURE PARAMETERS

- monitoring and surveillance of areas of interest such as theatre, boundary lines, Critical Infrastructure, coastal areas etc. a
- 24/7 Day or/and Night regime
- up to 4,2 km detection of human target

CONFIGURATION

- two axes pan/tilt, sensor containers with uncooled IR camera, daylight CCD TV camera and laser range finder.