ROOK

Multipurpose robotic unmanned ground vehicle

Part of the Robotic Autonomous combat Solution (RAS), the ROOK high mobility 6x6 unmanned ground vehicle (UGV) with all-terrain maneuverability is suitable for close and long-range operations under extreme conditions. Designed to carry heavy payloads, the multipurpose robotic UGV can perform a wide range of urban warfare, battalion maneuvers and border protection missions while increasing front-line effectiveness and survivability.

The advanced platform can be teleoperated, operate in fully autonomous beyond-line-of-sight mode (BLOS) and in multi-domain autonomous swarming operations. Featuring a large loading platform and capable of carrying 1200 kg at a speed of 30 kph, the ROOK can transport multiple sensors, weapon stations and other payloads.

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System Highlights

Dominion-X: Can be operated individually or as part of autonomous swarm of multiple unmanned vehicles.

Open architecture: Easy plug-and-play payload integration with full Interoperability Profile (IOP) compatibility.

High mobility platform: A six-wheel frame, low center of gravity and full electric engine for all-terrain maneuverability carrying a heavy payload.

Remote-controlled: Lightweight ruggedized operator control unit features a 7" screen and superior user-friendly interface.

Dual operational mode: Teleoperated or fully autonomous and beyond-line-of-sight mode.

Hybrid operation: Incorporates internal battery packs and fuel engine for long-range operations.

Main Applications

- MEDVAC (medical evacuation)
- Last-mile logistics
- Intelligence, surveillance, and reconnaissance (ISR)
- Effector: Remote weapon stations and loitering munitions

Technical Specifications

Parameter	Description
Dimensions (L x W x H)	270 x 160 x 120 cm / 106 x 63 x 47 in
Weight	1200 kg / 2645 lb
Max. payload weight	1200 kg / 2645 lb
Speed	30 kph / 18.6 mph
Towing speed	80 kph / 50 mph
Ingress protection	IP67
Turning circle	0 turn radius
Vertical grades	60 [%]
Ground clearance	24 cm / 9.4 in
Operating time	8 hours, hybrid mode available
Operating range	1000 m / 3280 ft
Communication	Secured IP, MESH data link
Interfaces	Compatible with IOP standard
Illumination	Visible white LED + IR light
Video and cameras	360° HR real-time day/night video

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