

Bison

Heavy Modular Robotic UGV

Overview

The BISON is a heavy-duty unmanned ground platform designed to operate in complex, high-risk environments while carrying mission-specific payloads with maximum flexibility. Built as a modular platform, BISON enables rapid adaptation to evolving operational needs - from sensing and logistics to communication and mission support - all without changes to the core vehicle.

Its robust mobility, high payload capacity, and open payload architecture make Bison a scalable solution for a wide range of missions, where endurance, reliability, and adaptability are critical.



System Highlights

- Heavy modular ground platform with high payload capacity
- Plug & Play payload architecture
- Designed for rough terrain, obstacles, and complex environments
- Supports power-intensive and mission-specific payloads
- Seamless integration with remote control and C2 systems



Main Applications

- Intelligence, Surveillance & Reconnaissance (ISR)
- Remote sensing and situational awareness
- Logistics and mission support
- Force protection and perimeter operations
- Platform for mission-specific payloads and future capabilities

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Platform Specifications

Parameter	Description
Dimensions (LxWxH)	126" x 69" (71" with tracks) x 50" in / 300 x 176 (182 with tracks) x 125 cm
Weight	2204 lbs / 1050 kg (1200 kg with tracks)
Max Payload Weight	881 lbs / 400 kg
Speed	25 mph / 40 km/h
Towing Capacity	2645 lbs / 1200 kg
Payload Architecture	Open Modular Payload Architecture
Turning Circle	Front-pivot Turning
Vertical Grades	60%
Ground Clearance	10" in / 25 cm (11" in / 28 cm with tracks)
Communication	Secure IP, MESH data link, LTE, Satellite & Fiber-optic
Operating Time	24 hours, Hybrid mode (Gas powered)
Interfaces	Modular mechanical & electrical interfaces
Video & Cameras	Day & Thermal Cameras, Multi-Directional Coverage, Wide-View Mast Camera
Illumination	Visible White LED Light

