



Mandrill

Modular high-mobility UGV

Mandrill – Agility, Power, and Modularity for the Missions Ahead.

The **Mandrill** is an **unmanned ground vehicle (UGV)** engineered for **high-speed, heavy-duty missions in both defense and disaster response** environments. Designed around a **modular architecture**, it adapts to a wide range of operational roles — from logistics and reconnaissance to rescue and tactical support.

With a **payload capacity of 750 kg**, a **top speed of 100 km/h**, and an **electric range of up to 200 km**, Mandrill combines power, endurance, and flexibility in a single platform. Its **bi-directional charging capability** allows it to serve as a **mobile energy hub**, while optional modules — such as EO/IR gimbals,

logistics cargo cages, stretchers, dronecarriers, sensor payloads, etc — enable rapid reconfiguration for diverse missions.

Fully integrated into the **Quantum Systems MOSAIC UXS software platform** for unmanned systems, the Mandrill ensures seamless mission planning, data integration, and coordinated operation with aerial and ground assets. It can be **remotely controlled** as required.

The **Mandrill**, at **3.7 meters in length**, is ready for **autonomous operations**, including day and night missions. **Advanced AI mapping** enables continued operation even when **GPS is unavailable**.



Technical Specifications

Dimensions	Long Version: 3.7 x 1.8 x 1m (in production), Short version: 2.9 x 1.8 m
Weight	1190 kg
Payload	750 kg
Maximum speed	100 kph
Motor	Dual electric motor 150kw
Battery options	400V 43KWH 400V 54 kwh
Electrical Range	200 km
Drive	Wheel Drive System (Bulletproved Beadlock) / Track Drive System (optional)
CCS Fast charging	Yes
Water Protection	IP 67 / 69



Possible applications

- + Remote ISR, highly automated via Nexus robotized drone launcher and catcher
- + Logistics / Engineering
- + Rescue / Medevac
- + Towing
- + Electronic Warfare

Special Features

- + Bi-directional charging (40 kW Energy Hub, Power Outlet: 1 x 32A, 2 x 16A, 3 x 230 V)
- + Nightvision: Fully Operatable Autonomous Driving Day & Night
- + GNSS Denied Operation through AI Advanved Mapping
- + NATO Trailer Hitch & Rope Winch, 15,890 N Towing Force

