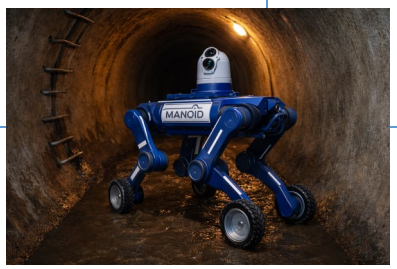
MQ02

Industrial robustness & field reliability

General technical data	**Dimensions (standing): 820 × 430 × 570 mm** **Weight (with batteries and equipment): approx. 50 kg** **Protection rating: IP66** **Operating temperature: -20 °C to +55 °C** **Bidirectional lighting front / rear** **Dual LiDAR 48 lines high precision (96 lines total)** **RF image transmission** **Interfaces: 72 V power supply, Gigabit Ethernet**
Embedded intelligence & autonomous navigation	Dual 64-bit industrial processor, 8 cores Peripheral vision via point cloud Omnidirectional obstacle avoidance Autonomous navigation in complex environments Modular and scalable architecture Possibility of application-specific extensions (optional BackPacks)
Key performance indicators	Payload: max. 15 kg **Two hot-swappable batteries** Battery life: up to 2.5 hours (with both batteries charged) Charging time (per battery): 1.5 to 2 hours Charging time on docking station: 2.5 hours (for both batteries) Maximum continuous speed: 3 m/s (up to 5 m/s peak) Storage capacity: 1 TB / RAM 16 GB
All-terrain mobility in real conditions	Rough or unstable terrain Wet or slippery areas Steps up to 25 cm Obstacles up to 80 cm Slopes up to 45° Confined spaces (50 cm clearance)
Sensors	Standard sensor configuration: GPS, high-precision LiDAR (laser radar), wide-angle HD camera Additional backpack: Rear mounting rails: 270 × 165 mm

* Images are non-contractual

▲ **Batteries and remote control not included**



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