

MagicDog Y1

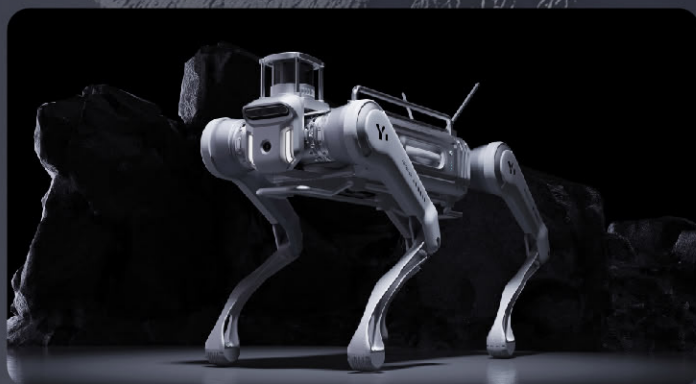
魔法原子工业四足机器人

「一机多擎，巡检与救援全域守护」

- 航空级材料机身 + IP67防护，-20℃至55℃稳定运行，高温严寒、风沙雨雪等全气候，稳定作业。
- 厘米级定位 + 动态避障，穿梭复杂场景稳准安全。
- 7×24 小时持续作业不停机：快速换电零等待/低电量自动返航充电。
- 即插即用开放平台，秒换双光/气体模块，一键接入调度，协同作业零门槛。

参数介绍

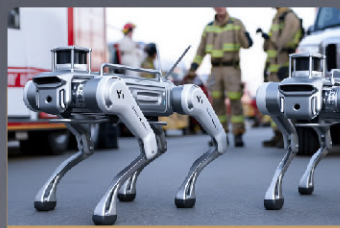
尺寸（长宽高）	915mm×458mm×800mm
整机重量（带电池）	≤65Kg（含电池）
最大载荷	150kg
运动载荷	45kg
最大运动速度	6m/s
最大攀爬高度	≥60cm
电池容量	45Ah（2400Wh），电压54V
续航时间	4-6h（20kg负载持续行走>4h）
整机防护等级	IP67
爬坡角度	≥45°
基础算力	8核高性能CPU
拓展算力	高性能算力模块(157 TOPS)
通讯模块	WIFI 6、BT 5.2、5G通信模块（部分版本选配）
感知传感器	3D激光雷达×1+深度相机×2+ 光学相机×2（不同配置有所差异）
用户拓展接口	24V+485输出)*4 电源+总线、USB3.0*4、 (12V 输出+EthNet)*3 电源+网络；EthCat x 1
扩展件安装孔位	扩展板、滑轨、螺丝位、负载平台
支持扩展设备	红外热成像仪、双光云台相机、气体传感器、声学成像仪、 局放传感器等



工业巡检



园区安防



应急救援



教育科研



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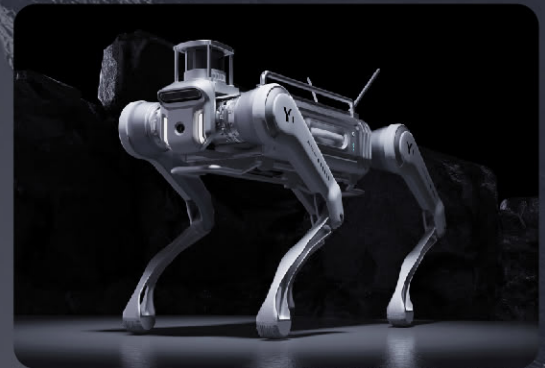
MagicLab's Industrial Quadruped Robot

「 Multi-Engine Robot for All-Round Inspection & Rescue Protection 」

- Aerospace-grade body with IP67 protection, ensuring stable operation from -20°C to 55°C. Ready for all climates, including high/low temperatures, sand, dust, rain, and snow.
- Centimeter-Level Positioning + Dynamic Obstacle Avoidance: Navigating complex environments with precision, stability and safety.
- 24/7 Non-Stop Operation: Instant battery hot-swap with zero downtime; Auto-return recharge at low power.
- Plug-and-Play Open Platform, Second-swap dual-spectrum/gas modules, One-click dispatch integration, Beginner-friendly collaborative operation.

Parameter Introduction

Dimensions (L × W × H)	915mm×458mm×800mm
Total Weight (with Battery)	≤65Kg (with Battery)
Maximum Payload	150kg
Dynamic Payload	45kg
Maximum Speed	6m/s
Maximum Climbing Height	≥60cm
Battery Capacity	45Ah (2400Wh), Voltage 54V
Operating Time	4-6h (>4 h continuous walking with 20 kg load)
Ingress Protection Rating	IP67
Maximum Slope Angle	≥45°
Base Computing Power	8-Core High-Performance CPU
Extended Computing Power	High-Performance Computing Module (157 TOPS)
Communication Module	Wi-Fi 6, BT 5.2, 5G Communication Module (optional for some versions)
Perception Sensors	3D LiDAR ×1 + Depth Cameras ×2 + Optical Cameras ×2 (configurations may vary)
User Expansion Interfaces	(24V+485 output)*4 power supply + power bus, USB3.0*4, (12V output+EthNet)*3 power supply + network; EthCat x 1
Mounting Holes for Expansion Parts	Extension Boards, Sliding Rails, Screw Mounts, Payload Platform
Supported Expansion Devices	Infrared Thermal Imager, Dual-Light PTZ Camera, Gas Sensor, Acoustic Imager, Partial Discharge Sensor, etc.



Industrial Inspection



Industrial Park Security Patrol



Emergency Response



Education and Scientific Research