

MagicDog-W

魔法原子轮式四足机器人

行业首款全身联动轮式四足机器人

- 全身17个电机，动作灵活，自如应对多变地形。
- 自研关节模组，轻量高效，性能与可靠性兼具。
- 智能情感引擎系统，融合音、视、触多模态交互，互动更愉悦。

应用场景

可应用于科研教学、商业表演等领域，也可搭载更多外设配件，用于各行业基础巡逻、勘察等作业场景。

参数介绍

站立尺寸	67 cm x 35 cm x 65 cm
趴下尺寸	72 cm x 50 cm x 29 cm
轮胎类型与尺寸	7英寸充气轮胎
电机数量	16+1 (头部电机)
整机重量	约 22.5 Kg (带电池)
电池	容量: 8200 mAh、额定电压: 29.6 V
综合续航时间	2-4 h
载荷	最大10 Kg
运动速度	≥ 3.0 m/s
攀爬落差高度	≥ 60 cm
攀爬斜坡角度	$\geq 40^\circ$
基础算力	8核高性能CPU
拓展模块	NVIDIA Jetson Orin
最大关节扭矩	37.5 N·m
关节运动空间	机身: $-37.0^\circ \sim 45.0^\circ$ 、大腿: $-207.5^\circ \sim 72.5^\circ$ 小腿: $-143.0^\circ \sim -30.0^\circ$ 、头部: $-60.0^\circ \sim 60.0^\circ$
传感器	激光雷达、双目相机、深度相机 4k高清相机、鱼眼相机、超声波传感器
触摸感知	触摸传感器
音频模块	环形麦克风、扬声器
通讯模块	WiFi5, 4G模组, BT5.0
工作温度范围	-5° 到 40°



魔法原子机器人科技有限公司
联系电话: 400-828-8022
联系邮箱: bd@magiclab.top



魔法原子公众号



联系我们

MagicDog-W

Wheeled Quadruped Robot

Industry's First Wheeled Quadruped Robot with Integrated Body-Head Motion

- Equipped with 17 motors throughout the body, MagicDog-W achieves agile movement and adapts to various terrains.
- In-house developed joint modules for precision and reliability, lightweight design and efficiency for high performance.
- Intelligent emotion engine enabling multi-modal interaction through voice, vision, and touch.

Application Scenarios

Scientific research, and commercial performance. It can also be used in basic patrol, survey and other operation scenarios in various industries after being equipped with more accessories.

Parameter Introduction

Dimensions (Standing)	67 x 35 x 65 cm (L x W x H)
Dimensions (Crouched)	72 x 50 x 29 cm (L x W x H)
Tyres	7-inch pneumatic tire
Motors	16+1 (head movement)
Weight	Approx. 22.5 Kg (including battery)
Battery	Capacity: 8200 mAh, Rated Voltage: 29.6 V
Battery Life Performance	2-4 h
Payload	Up to 10 Kg
Movement Speed	≥3.0 m/s
Maximum Climbing Height	≥60 cm
Maximum Climbing Slope	≥40°
Computing	High-performance 8-core CPU
Expansion Module	NVIDIA Jetson Orin
Maximum Joint Torque	37.5 N·m
Joint Range of Motion	Torso: -37.0°~45.0°、Thigh: -207.5°~72.5°
	Shin: -143.0°~-30.0°、Head: -60.0°~ 60.0°
Sensors	LiDAR, Dual Camera, Depth Vision
	4K HD Camera, Fisheye Camera, Ultrasonic Sensors
Touch Perception	Touch Sensors
Audio Module	Circular Microphone Array, Speaker
Communication Module	WiFi5, 4G Module, BT5.0
Operating Temperature Range	-5°~40°



MagicLab Robot Technology Co, Ltd
Tel: +86 400-828-8022
Email: bd@magiclab.top

