

MagicDog

魔法原子四足机器人

行业首款全身联动四足机器狗

- 全身13个自由度
- 自研关节模组
- 智能情感引擎系统，融合音、视、触多模态交互

参数介绍

站立尺寸	67 cm x 35 cm x 56 cm
趴下尺寸	72 cm x 44 cm x 29 cm
自由度	12 + 1 (头部自由度)
整机重量	约17 Kg (带电池)
电池	容量：8200 mAh，额定电压：29.6 V
综合续航时间	约2.5 h持续运动
载荷	≈5kg (极限10kg)
运动速度	0 ~ 3.0 m/s
最大攀爬落差高度	约18 cm (实验室数据)
最大攀爬斜坡角度	40° (实验室数据)

基础算力	8核高性能CPU
最大关节扭矩	约 37.5 N·m
关节运动空间	机身：-37.0° - 45.0° 大腿：-207.5° - 72.5° 小腿：-143.0° - -30.0°
传感器	激光雷达、双目相机、深度相机 4k高清相机、鱼眼相机
触摸感知	触摸传感器
音频模块	环形麦克风、扬声器
特技动作	约30+



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Magiclab Quadruped Robot

Industry’s First Quadruped Robot with Integrated Head Motion

- 13 Degrees of Freedom enabling lifelike, agile motion
- In-house Developed Joint Modules for precision and reliability
- Intelligent Emotion Engine enabling multi-modal interaction through voice, vision, and touch

Parameter Introduction

Dimensions (Standing)	67 × 35 × 56 cm (L × W × H)
Dimensions (Crouched)	72 × 44 × 29 cm (L × W × H)
Degrees of Freedom	12 + 1 (head movement)
Weight	Approx. 17 Kg (including battery)
Battery	8200 mAh, Rated Voltage: 29.6 V
Battery Life	Approx. 2.5 hours continuous operation
Payload	≈5kg (Max. ≈10kg)
Movement Speed	0–3.0 m/s
Maximum Climb Height	Approx. 18 cm (lab-tested)
Maximum Climbing Slope	40° incline (lab-tested)

Computing	High-performance 8-core CPU
Maximum Joint Torque	Approx. 37.5 N·m
Joint Range of Motion	Torso: -37.0° to 45.0°
	Thigh: -207.5° to 72.5°
	Shin: -143.0° to -30.0°
Sensors	LiDAR, Binocular Camera, Depth Camera
	4K HD Camera, Fisheye Camera
Touch Sensors	Integrated Touch Sensors
Audio Module	Circular Microphone Array, Speaker
Pre-programmed Actions	Over 30 Pre-programmed Maneuvers

