

D1 Ultra四足机器人产品参数表

分类	规格	说明
基础信息	材质信息	铝合金+高强度工程塑料
	站立尺寸（长 × 宽 × 高）	630mm×360mm×420mm
	趴地尺寸（长 × 宽 × 高）	670mm×435mm×145mm
	整机重量（含电池）	16kg
	自由度	整机自由度12，单腿自由度3
	工作温度	0°C ~40°C
	防护等级	IP54
	电池	额定容量4.6Ah，电压43.2v
	充电时长	约1h（电量10%-90%）
	续航时间	1-2h
性能参数	续航里程	6±1km
	最大速度	3.7m/s
	额定负载	5kg
	连续攀爬楼梯高度	16cm
	最大爬坡角度	标准环境30°，极限可达40°
整机关节参数	跳跃离地高度	35cm
	最大关节扭矩	48N·m
	关节运动空间（机身）	-28°~28°
	关节运动空间（大腿）	-170°~66°
	关节运动空间（小腿）	35°~156°
传感器	IMU	标配
	相机FOV	一个相机，像素1920*1080p，视场角DFOV122°，HFOV111°，VFOV70°
功能列表	标准动作	站立、卧倒、阻尼、俯仰身形、高低身形、水平转身等，向前跳、向上跳、双腿站立、后空翻、打招呼等
	实时图像传输	支持
	二次开发	支持，提供SDK开发包,标准化接口,提供机器人模型和仿真接口,支持Issac sim等仿真环境
	通讯功能	支持WIFI5.0，Wifi频段2.4GHz，WiFi发射功率21dBm。支持蓝牙5.0
	目标追踪	支持
	功能拓展接口	以太网口*1、USB接口*2、电源接口*2、SBUS接口*1、UART接口*1
配件	适配器	标配
	充电座	标配
	遥控器	带屏遥控器

注释说明

- (1)功能拓展接口使用说明，详见拓展说明手册；
- (2)详细的保修条款，详见产品保修手册；
- (3)以上参数为实验室测试数据，实际表现可能因使用环境、操作方式等因素有所差异，请以实际为准；

D1 Ultra Quadruped Robot — Technical Specification Sheet

Category	Specification	Description
Basic Information	Material	Aluminum alloy with high-strength engineering plastic
	Standing Dimensions (L × W × H)	630 mm × 360 mm × 420 mm
	Lying Down Dimensions (L × W × H)	670 mm × 435 mm × 145 mm
	Total Weight (with battery)	16kg
	Degree of Freedom	Entire machine: 12, Each leg: 3
	Operating Temperature	0°C ~40°C
	Ingress Protection Rating	IP54
	Battery Module	Rated capacity: 4.6Ah, Voltage: 43.2V
	Charging Duration	about 1 hour (Battery level: 10%–90%)
	Battery Life (Operating Time)	1–2 hours
Performance Parameters	Operating Range	6 ±1 km
	Maximum Speed	3.7 m/s
	Effective Payload	5kg
	Continuous Stair-Climbing Height	16 cm
	Maximum Climbing Angle	30° standard, up to 40° maximum
Joint Parameters	Vertical Jump Height	35 cm
	Maximum Joint Torque	48 N·m
	Joint Range of Motion (Body)	–28° ~ +28°
	Joint Range of Motion (Thigh)	–170° ~ –66°
Sensors	Joint Range of Motion (Calf)	+35° ~ +156°
	IMU	Standard
	Camera FOV	A camera with a resolution of 1920×1080 pixels, featuring with DFOV 122°, HFOV 111°, VFOV 70°
Function List	Standard Actions	Standing, Lying, Damping Mode, Pitch Adjustment, Height Adjustment, Horizontal Turning; Jump forward, jump up, stand on both feet, backflip, wave hello, etc.
	Real-Time Image Transmission	Supported
	Secondary Development (SDK)	Supported, provide SDK development packages, standardized interfaces, robot models, and simulation interfaces, supporting simulation environments such as Isaac Sim.
	Communication Features	Supported WiFi 5.0, Wi-Fi band: 2.4 GHz; Wi-Fi transmission power: 21 dBm Supported Bluetooth 5.0
	Functional Expansion Ports	Ethernet*1, USB*2, Power Port*2, SBUS*1, UART*1
	Target Tracking	Supported
	Battery	Nominal Capacity: 5 Ah; Rated Capacity: 4.6 Ah; Voltage: 43.2 V
Accessories	Power Adapter	Standard
	Charging Dock	Standard
	Remote Control	Screen Remote Control

Notes

- (1) For details on the expansion interface usage, refer to the Expansion Interface Manual.
- (2) For warranty terms, please refer to the Product Warranty Manual;
- (3) All parameters are based on laboratory test data. Actual performance may vary depending on environment and operating conditions.