

D1 Pro Quadruped Robot — Technical Specification Sheet

Category	Specification	Description
Basic Information	Material	Aluminum alloy with high-strength engineering plastic
	Standing Dimensions (L × W × H)	635 mm × 360 mm × 420 mm
	Lying Down Dimensions (L × W × H)	675 mm × 435 mm × 145 mm
	Total Weight (with battery)	15.5kg
	Degree of Freedom	Entire Machine: 12, Each Leg: 3
	Operating Temperature	0°C ~40°C
	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 km±1km
	Maximum Speed	3.5 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	1, automotive grade
	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; Forward Jump, Upward Jump, Biped Standing, Backflip, Waving, etc.
	Real-Time Image Transmission	Supported
	Secondary Development (SDK)	Edu version 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
Accessories	Power Adapter	Standard
	Charging Dock	Standard
	Remote Control	Joystick Remote Control

Notes:

(1) Charging time is measured at a standard ambient temperature of 25°C;

(2) Operating range is measured at 1 m/s speed under no-load conditions;

(3) For details on the expansion interface usage, refer to the Expansion Interface Manual;

(4) For warranty terms, please refer to the Product Warranty Manual;

(5) All parameters are based on laboratory test data. Actual performance may vary depending on environment and operating conditions.