

AGIBOT D1 Max Quadruped Robot – Technical Specification Sheet

Category	Specification	Description
Basic Information	Material	Aluminum alloy with high-strength engineering plastic
	Standing Dimensions (L × W × H)	920 mm × 480 mm × 570 mm
	Lying Down Dimensions (L × W × H)	930 mm × 630 mm × 200 mm
	Total Weight (with battery)	40 kg
	Operating Temperature	-20°C ~ 55°C
	Ingress Protection Rating	IP67
	Battery Module	Rated capacity: 10 Ah; Voltage: 54 V
	Charging Duration	< 2 hour
	Battery Life (Operating Time)	5h at no-load, 2.5h at full-load
	Operating Range	29 km at no-load, 18 km at full-load
Performance Parameters	Maximum Speed	8 m/s
	Effective Payload	25~30 kg
	Continuous Stair-Climbing Height	22 cm
	Maximum Climbing Angle	45°
	Jumping Height (off-ground)	80 cm
	Maximum Obstacle Crossing and Gap Crossing Height	80 cm
	Load-carrying clearance height	50 cm
	Minimum Clearance Width	50 cm
Joint Parameters	Maximum Joint Torque	150 N·m
	Joint Range of Motion (Body)	-30° ~ 40°
	Joint Range of Motion (Thigh)	-160° ~ 160°
	Joint Range of Motion (Calf)	-160° ~ 160°
Sensors	Lidar	One 192-line LiDAR at the front and one at the rear, each providing 360° × 90° coverage and a detection range of 120 m in diameter
	Camera FOV	One FPV camera each at the front and rear, industrial-grade 8-megapixel resolution, field of view: DFOV 122°, HFOV 111°, VFOV 70°
	Fill Lights	4 fill lights-one on each side of the FPV camera
	IMU	Standard configuration
	RTK Module	GNSS RTK unit*1
	Ultrasonic Sensors	1 Ultrasonic sensor on each side, obstacle detection up to 5m
Function List	Standard Actions	Stepping, gliding, crawling, and other postures; support straight-line motion forward/backward/left/right, in-place rotation, and knee-joint pose adjustment
	Real-Time Image Transmission	Supported
	Wheel-Leg Interchangeability	Supported
	Secondary Development (SDK)	Supported
	Power Ports	5 V, 12 V, 24 V, 48 V; maximum output 480 W
Accessories	Functional Expansion Ports	Gigabit Ethernet2, USB 3.02, RS-2321, RS-4851, SBUS2, PPS1
	Power Adapter	Standard
	Charging Dock	Standard
	Remote Control	Screen Remote Control
	Autonomous Charging Dock	Optional

Notes:

- Charging time is measured at a standard ambient temperature of 25°C;
- Operating range is measured at 1 m/s speed under no-load conditions;
- For details on the expansion interface usage, refer to the Expansion Interface Manual. (4) For warranty terms, please refer to the Product Warranty Manual;
- All parameters are based on laboratory test data. Actual performance may vary depending on environment and operating conditions.