UNITREE A2

Stellar Explorer



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	Model	A2	A2 PRO
Mechanical Parameters	Size (Standing)	820mm x 440mm x 570mm	
	Size (Lying Prone)	720mm x 550mm x 220mm	
	Material	Aluminum Alloy + High-Strength Engineering Plastic	
	Weight (without battery)	About 31kg	
	Weight (with battery)	About 37kg	
	Degrees of Freedom (Joint Motors)	12	
	Joint Bearings	Industrial-grade crossed roller bearings (high precision, high load capacity)	
	Joint Motors	Low-inertia, high-speed inner rotor PMSM(enhanced response & heat dissipation)	
	Max Joint Torque	About 180 N.m	
	Range of Motion	Body：-58~58° Thigh：-134°~180°/-89°~225° Shank：-158°~-30°	
Electrical Characteristics	Supply Voltage	50.4V	
	Joint Encoder	Dual encoders	
	Cooling System	Local air Cooling	
	Power Supply	Dual slots, dual batteries	
	Battery Capacity	Single Battery 9000mAh（453.6Wh） Dual Batteries 18000mAh（907.2Wh）	
	Wi-Fi 6, Bluetooth 5.2	YES	
	Speaker	YES	
	Microphone	Microphone array	
	Front Light	YES	
	Wireless vector follow module	/（Optional）	Expand（Optional）
	GPS/4G	/（Optional）	Expand（Optional）
	Sensor	LiDAR × 1 + HD Camera × 1	LiDAR × 2 + HD Camera × 1
	Control & Compute	Standard: 8-Core high-performance CPU (platform)+Intel Core i7 (user development)	Standard: 8-Core high-performance CPU (platform) + Intel Core i7 (user development) Optional: high computing power expansion dock
	External Interfaces	RS485 x 2、CAN x 2、Gigabit Ethernet x 2、USB3.0-TypeC(8-Core CPU) x 2 USB3.0-TypeC (Intel Core i7)x2、Power Output：12V / 24V / BAT	
Performance Metrics	Operating Temperature	-20℃ ~ 55℃	
	Battery Life	No Load：>5hours continuous walking, approx. 20km With 25kg Load：>3 hours continuous walking, approx. 12.5km	
	Max Standing Load	About 100kg	
	Continuous Walking Load	About 25kg	
	Slope Walking Capability	About 45°	
	Stair Climbing Capability	Max Step Height: 30cm	
	Max Climb Height	About 0.5 ~ 1m	
	Speed	0–3.7 m/s (Up to ~5 m/s)	
	Replace Wheel-leg	Optional	
	Ingress Protection Rating	IP56	IP56–IP67 (Core components rated IP67)
Other	Smart OTA Upgrade	Continuous Upgrades	
	Secondary Development [1]	Supported	
	Warranty [2]	12 Months	

[1]For detailed functions, please refer to the Secondary Development Manual.
[2]For detailed warranty terms, please refer to the Product Warranty Manual.
[3]The above parameters may vary in different application scenarios and different configurations, please contact sales before purchasing.
[4]This quadruped robot has a complex structure and powerful dynamics. Users must keep a safe distance from the robot at all times. Please use with caution.
[5]Product appearance may be subject to future upgrades and changes, please refer to the actual situati
[6]Some example features shown on this page are under development and testing, and will be made availe to users gradually.
[7]This product is a civilian robot. We kindly request that all users refrain from making any dangerous modifications or using the robot in a hazardous manner.

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