

AIR



PRO



EDU



*Available in diverse configurations, please contact Unitree for details.

Mechanical Specifications

Electron Parameter

Performance Parameters

Knee Joint Parameters

Force Sensor Parameters

Feature List

Dimension of standing	70x31x40cm	70x31x40cm	70x31x40cm
Dimension of crouching	76x31x20cm	76x31x20cm	76x31x20cm
Weight (with battery)	About 15kg	About 15kg	About 15kg
Material	Aluminium alloy + High strength engineering plastic	Aluminium alloy + High strength engineering plastic	Aluminium alloy + High strength engineering plastic
Voltage	28V~33.6V	28V~33.6V	28V~33.6V
Working maximum power	About 3000W	About 3000W	About 3000W
Payload	≈7kg MAX ~ 10kg)	≈8kg MAX ~ 10kg)	≈8kg MAX ~ 12kg)
Speed	0 ~ 2.5m/s	0 ~ 3.5m/s	0 ~ 3.7m/s (MAX ~ 5m/s).
Max Climb Drop Height	About 15cm	About 16cm	About 16cm
Max Climb Angle	30°	40°	40°
Basic Computing Power	○	8-core High-performance CPU[4]	8-core High-performance CPU
Max Joint Torque[1]	○	About 45N.m	About 45N.m
Aluminum knee joint motor	12 set	12 set	12 set
Range of Motion	body: -48~48° thigh: -200°~90° shank: -156°~-48°	body: -48~48° thigh: -200°~90° shank: -156°~-48°	body: -48~48° thigh: -200°~90° shank: -156°~-48°
Intra-joint circuit (knee)	●	●	●
Joint Heat Pipe Cooler	●	●	●
Super-wide-angle 3D LIDAR	●	●	●
Wireless Vector Positioning Tracking Module	○	●	●
HD Wide-angle Camera	●	●	●
Foot-end force sensor	○	○	●
Basic Action	●	●	●
Auto-scaling strap	○	●	○
Upgraded Intelligent OTA	●	●	●
RTT 2.0 Pictures Transaction	●	●	●
Graphical programme	●	●	●
Front lamp	●	●	●
WiFi6 with Dual-band	●	●	●
Bluetooth 5.2/4.2/2.1	●	●	●
4G module	○	●	●

Voice Function[5]	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
ISS 2.0 Intelligent side-follow system	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Intelligent detection and avoidance	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Charging Pile Compatibility	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Secondary development[6]	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Manual controller	optional	optional	<input checked="" type="radio"/>
High computing power module	<input type="radio"/>	<input type="radio"/>	NVIDIA Jetson Orin (optional) (40-100Topscomputing power)
Smart battery	standard (8000mAh)	standard (8000mAh)	long endurance (15000mAh)
Battery life	About 1-2h	About 1-2h	About 2-4h
Charger	standard (33.6V 3.5A)	standard (33.6V 3.5A)	fast charge (33.6V 9A)
Warranty period[7]	6 months	12 months	12 months
Price (Tax and freight excluded)	\$1600	\$2800	Contact your sales expert

* Note: [1] The maximum torque in the table refers to the maximum torque of the largest joint motor; the actual maximum torque varies for the 12 joint motors.

[2] In open environment without interference and blocking.

[3] Transformation and quality varies considerably in different network environments.

[4] 8-core High-performance CPU : Supports a variety of modes, including advanced mode, AI mode, 3D LiDAR mapping, etc.

[5] Voice functions include offline voice interaction, commands, intercom and music play.

[6] For more information, please read the secondary development manual.

[7] For more detailed warranty terms, please read the product warranty brochure.

[8] The above parameters may vary in different scenarios and configurations, please subject to actual situation.

[9] If any change in the appearance of the product, please refer to the actual product.

[10] The 4G function of non-Chinese mainland version will only support 43 European countries (except Ukraine), and some Asian regions.

* Tip: Limited to the current technique and computing power resources, part of function shall be realized human operation or secondary development.

* 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.

* Please visit Unitree Robotics Website for more related terms and policies, and comply with local laws and regulations.