UNITREE R1

Ultra-lightweight, Fully Customizable



UNITREE

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	Model	R1	R1 EDU
Mechanical Dimensions	Height, Width and Thickness (Stand)	1210×357×190mm	1210×357×190mm
	Weight (With Battery)	About 25kg	About 25kg
	Degree of Freedom (Total Joints)	24	24–40
	Single Leg Degrees of Freedom	6	6
	Single Arm Degrees of Freedom	5	5
	Waist Degrees of Freedom	2	2
	Head Degrees of Freedom	/	2
	Dexterous Hand	/	Optional
	Joint output bearing	Crossed roller bearings, Double Hook Ball Bearings	
	Joint motor	Low inertia high-speed internal rotor PMSM(permanent magnet synchronous motor, better response speed and heatdissipation)	
	Max Torque of Arm Joint [1]	About 2kg	About 2kg
	Calf + Thigh Length	675	675
	Forearm + Upper Arm Length	435	435
	Joint Movement Space	Waist Joint: : Y±150° R:±30° Knee Joint: -10° ~+148° Hip Joint: Y:±157° P:-168° ~+146° R:-60° ~+100°	
Electrical Characteristics	Electrical Routing	Hollow + Internal Routing	Hollow + Internal Routing
	Joint Encoder	Dual + single encoder	Dual + single encoder
	Cooling System	Local air cooling	Local air cooling
	Power Supply	Lithium battery	Lithium battery
	Basic Computing Power	8-core CPU	8-core CPU
	Microphone Array	4-Mic Array	4-Mic Array
	Speaker	YES	YES
	Wifi6、Bluetooth 5.2	YES	YES
	Humanoid Binocular Camera	YES	YES
Accessories	High-Power Computing Module	/	NVIDIA Jetson Orin Optional (40-100Tops)
	Smart Battery (Quick Release)	YES	YES
	Charger	YES	YES
	Manual Remote Control	YES	YES
Other	Battery Life	About 1h	About 1h
	Upgraded Intelligent OTA	YES	YES
	Secondary Development[2]	/	YES
	Warranty Period [3]	8 Months	12 Months

[1] The maximum load of the arm varies greatly under different arm extension postures.
[2] For more information, please read the secondary development manual.
[3] For more detailed warranty terms, please read the product warranty brochure.
[4] The above parameters may vary in different scenarios and configurations, please subject to actual situation.
[5] The humanoid robot has a complex structure and extremely powerful power. Users are asked to keep a sufficient safe distance between the humanoid robot and people.Please use with caution.
[6] If any change in the appearance of the product, please refer to the actual product.
[7] Some sample functions on this page are still being developed and tested, and will be opened to users in the future.
[8] Currently, the global humanoid robot industry is in the early stages of exploration. Individual users are strongly advised to thoroughly understand the limitations of humanoid robots before making a purchase.
[9] 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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