		R1	R1 EDU
Mechanical Dimensions	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	Crossed roller bearings, Double Hook Ball Bearings
	Joint motor	Low inertia high-speed internal rotor PMSM(permanent magnet synchronous motor,better response speed and heat dissipation)	Low inertia high-speed internal rotor PMSM(permanent magnet synchronous motor,better response speed and heat dissipation)
	Maximum 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°	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 high-performance CPU	8-core high-performance CPU
	Microphone Array	4-Mic Array	4-Mic Array
	Speaker	YES	YES
	WiFi 6 、Bluetooth 5.2	YES	YES
	Humanoid Binocular Camera	YES	YES

Accessories	Smart Battery (Quick Release)	YES	YES
	Charger	YES	YES
	Manual Controller	YES	YES
	Battery Life	About 1h	About 1h
Other	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.

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