

Unitree R1 Specification

picture	name	Functional Description
		Height, width and depth (standing): 1210x357x190mm Weight with battery: about 25kg Total degrees of freedom of the whole machine (joint motor): 26 Single leg degrees of freedom: 6 Waist degrees of freedom: 2 Single arm degrees of freedom: 5 Head degrees of freedom: 2 Maximum arm load: 2kg Calf + thigh length: 0.675m Arm span: about 0.435m Large joint motion space Waist joint: Y±150°, R±30° Knee joint: -10°+148° Hip joint: Y±157°, P-168°+146°, R-60°+100° Fully hollow joint internal wiring: Yes Joint encoder: dual + single encoder Cooling system: local air cooling Power supply: lithium battery Basic computing power: 8-core high-performance CPU R1 Edu Smart Version High computing power module: 100Tops expansion dock, capable of secondary development, including AI algorithm technology support Support high-level and low-level secondary development, provide robot models and simulation interfaces, and support simulation environments such as ISSAC SIM Provide excellent technical support services, complete development Standard speaker and microphone array WiFi 6, Bluetooth 5.2: Yes Perception sensor: humanoid binocular camera 1 charger, 1 smart battery (quick release) 1 handheld remote control Battery life: about 1h Smart OTA upgrade: support Secondary development: None Warranty period: 12 months Robot accessories: 1. Remote control 2. Charger 3. Robot transport box