EAGLE PROJECTS

Unitree

PHOTO	MODEL	FUNCTION
	R1 AIR	•Height, width and thickness (standing): 1210x357x190mm •Weight with battery: about 25kg •Total degrees of freedom (joint motor): 24 •Degrees of freedom of single leg: 6 •Degrees of freedom of waist: 2 •Degrees of freedom of single arm: 5 •Degrees of freedom of head: 2（only for R1 Edu Series） •Maximum arm load: 2kg •Length of calf + thigh: 0.675m •Arm span: about 0.435m •"Super large joint movement space Waist joint: Y± 150°, R± 30° •Knee joint: - 10~ + 148° •Hip joint: Y± 157°, P- 168~ + 146°, R- 60~ + 100°" •All joints hollow 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 •Standard sound speaker and microphone array •WiFi 6, Bluetooth 5.2: Yes •Perception sensor: humanoid binocular camera •1 charger, 1 smart battery (quick assembly) •1 handheld remote control •Battery life: about 1 hour •Smart OTA upgrade: supported •Secondary development: no •Warranty period: 8 months •Robot Accessories: 1. Remote Control 2. Charger 3. Robot Transport Case •By default, protective bracket not included

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PHOTO	MODEL	FUNCTION
	R1 Edu U1	•All features of the R1 Basic version •Total degrees of freedom (joint motors): 24 •Degrees of freedom per leg: 6; waist: 2; arm: 5; head: none •Built-in expansion dock with 40Tops computing power for development, including AI algorithm support •Maximum arm load: 2kg •Supports high- and low-level development, provides robot models and simulation interfaces, and supports simulation environments such as Isaac SIM •Provides excellent technical support, comprehensive development manuals, and ecosystem support •Perception sensor: Humanoid binocular camera •12-month warranty
	R1 Edu U2	•All features of the R1 Edu Standard version (R1 Edu U1). •Total degrees of freedom (joint motors): upgraded to 26. •Leg degrees of freedom: 6; waist degrees of freedom: 2; arm degrees of freedom: 5. •Head degrees of freedom: upgraded to 2. •Built-in computing power upgraded to 100Tops expansion dock, enabling development and including AI algorithm support. •Maximum arm load: 2kg. •Supports high- and low-level development, provides robot models and simulation interfaces, and supports simulation environments such as Isaac SIM. •Provides excellent technical support, comprehensive development manuals, and ecosystem support. •Perception sensor: Humanoid binocular camera. •12-month warranty.
	R1 Edu U3	•All features of the R1 Edu Smart version (R1 Edu U2). •Equipped with two Dex3-1 force-controlled three-finger dexterous hands (without tactile control). •Dexterous hands have 7 degrees of freedom per hand (thumb 3, index finger 2, middle finger 2). •Total degrees of freedom (joint motors) for the entire device: 40 (26 + 7 + 7). •Leg DOF: 6; waist DOF: 2; arm DOF: 5. •Head DOF upgraded to 2. •Built-in computing power upgraded to 100Tops expansion dock, enabling development and including AI algorithm support. •Maximum arm load: 2kg. •Supports high- and low-level development, provides robot models and simulation interfaces, and supports simulation environments such as Isaac SIM. •Excellent technical support, comprehensive development manuals, and ecosystem support are provided. •Perception sensor: Anthropomorphic binocular camera. •12-month warranty for the entire device.
	R1 Edu U4	•All features of the R1 Edu Smart version (R1 Edu U2) . •Equipped with two Dex3-1 force-controlled three-finger dexterous hands (with tactile sensing). •Dexterous hands have 7 degrees of freedom per hand (thumb 3, index finger 2, middle finger 2). •Total degrees of freedom (joint motors) for the entire device: 40 (26 + 7 + 7). •Leg DOF: 6; waist DOF: 2; arm DOF: 5. •Head DOF upgraded to 2. •Built-in computing power upgraded to 100Tops expansion dock, enabling development and including AI algorithm support. •Maximum arm load: 2kg. •Supports high- and low-level development, provides robot models and simulation interfaces, and supports simulation environments such as Isaac SIM. •Excellent technical support, comprehensive development manuals, and ecosystem support are provided. •Perception sensor: Anthropomorphic binocular camera. •12-month warranty for the entire device.
	R1 Edu U5	•All features of the R1 Edu Smart version (R1 Edu U2). •Equipped with two Revo 2 Basic five-finger dexterous hands. •Dexterous hands have 6 degrees of freedom per hand. •Total degrees of freedom (joint motors) for the entire device are 38 (26 + 6 + 6). •Leg degrees of freedom: 6; waist degrees of freedom: 2; arm degrees of freedom: 5. •Head degrees of freedom upgraded to 2. •Built-in computing power upgraded to 100Tops expansion dock, enabling secondary development and including AI algorithm support. •Maximum arm load: 2kg. •Supports high- and low-level secondary development, provides robot models and simulation interfaces, and supports simulation environments such as Isaac SIM. •Excellent technical support services, comprehensive development manuals, and ecosystem support are provided. •Perception sensor: Anthropomorphic binocular camera. •12-month warranty for the entire device.
	R1 Edu U6	•All features of the R1 Edu Smart version (R1 Edu U2). •Equipped with two Revo 2 Touch, the powerful five-finger dexterous hands. •Dexterous hands have 6 degrees of freedom per hand. •Total degrees of freedom (joint motors) reach 38 (26 + 6 + 6). •Leg degrees of freedom: 6; waist degrees of freedom: 2; arm degrees of freedom: 5. •Head degrees of freedom upgraded to 2. •Built-in computing power upgraded to 100Tops expansion dock, enabling secondary development and including AI algorithm support. •Maximum arm load: 2kg. •Supports high- and low-level secondary development, provides robot models and simulation interfaces, and supports simulation environments such as Isaac SIM.

		•Excellent technical support services, comprehensive development manuals, and ecosystem support are provided. •Perception sensor: Anthropomorphic binocular camera. •12- month warranty for the entire device.

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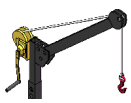
	**Two-hand remote control**	•Charging Voltage: 5V •Communication Method: Data Transmission Module, Bluetooth •Operating Time: 5 hours •Remote Control Distance: 100 meters or more
	**R1 group control remote control**	•Charging Voltage: 5V •Charging Current: 2A •Operating Time: 2.5 hours •Remote Control Range: 100 meters or more •Not for sale (the price is very high). Leasing is recommended. Please be sure to inform Unitree in advance and clearly state in the order contract or PI (whether for leasing or selling) that the group control remote has certain control risks. Unitree is not responsible for any losses (including third-party losses) incurred during use.
	**R1 Battery**	•Product Dimensions: 85mm * 83mm * 146.5mm •Charge Limit Voltage: 37.8V, Nominal Voltage: 32.4V •Proprietary Battery Management System (BMS) •Rated Capacity: 6000mAh, 194.4Wh •Proprietary Battery Management System (BMS) •Functions: Battery Level Display, Battery Storage Self-Discharge Protection, Balance Charge Protection, Overcharge Protection, Overdischarge Protection, Short Circuit Protection, Battery Load Detection Protection
	**R1 charger**	•Product Dimensions: 210mm*108mm*48.2mm •Input Power: 100-240V~50/60Hz 4A 350VA •Output Power: 54V 5A
		

	**Protective bracket (crane)**	Universal humanoid robot R1, debugging protection bracket

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PHOTO	MODEL	PARAMETER
	**Dex3-1 force-controlled three-finger dexterous hand**	•Weight: 650g. Dimensions: 175mm × 88mm × 77mm •Degrees of Freedom per Hand: 7 (3 DOF for thumb, 2 DOF for index finger, 2 DOF for middle finger) •Note: This price and information is for a single hand. Typically, one R1 comes with two optional dexterous hands. Please distinguish between left and right hands when placing an order. product.
	**Dex3-1 force-controlled three-finger dexterous hand (haptic version)**	•Weight: 650g. Dimensions: 175mm × 88mm × 77mm •Degrees of freedom per hand: 7 (thumb: 3, index finger: 2, middle finger: 2) •Number of tactile sensors: 33 •Note: This price and information is for a single hand. Typically, one R1 comes with two optional dexterous hands. Please distinguish between left and right hands when placing an order.
	**BrainCo Bionic Dexterous Hand Revo 2 Basic Version**	•Degrees of freedom: 6; Number of joints: 11 •Weight: 383g •Whole-hand grip strength: 50N, single-finger pinch strength: 15N •Repeatability: 0.1° •Height (from middle fingertip to base of palm): 160mm •Note: This price and information is for a single hand. A R1 unit typically comes with two optional dexterous hands. Please distinguish between left and right hands when ordering.
	**BrainCo Bionic Dexterous Hand Revo 2 Haptic Version**	•Degrees of freedom: 6; Number of joints: 11 •Weight: 383g •Grip strength: 50N, single-finger pinch strength: 15N •Repeatability: 0.1° •Height (from middle fingertip to base of palm): 160mm •Includes tactile sensing: pressure, friction, direction, etc. •Note: This price and information is for a single hand. Typically, one R1 unit is equipped with two dexterous hands. Please distinguish between left and right hands when ordering.