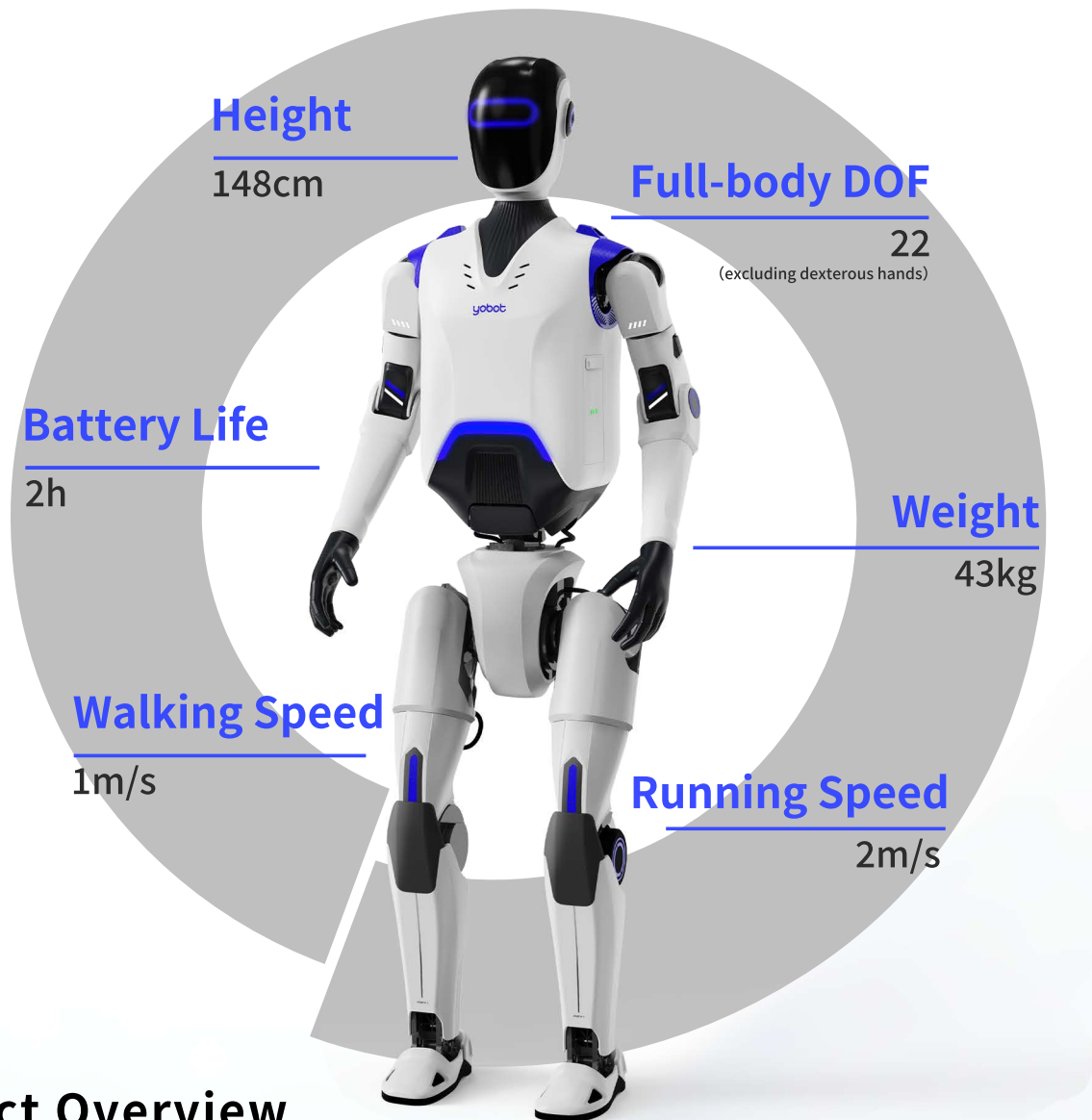




Product Overview

R2V1 is an agile member of the Openmind family, engineered to explore the limits of humanoid motion. Built with a topology-optimized lightweight body, R2V1 has undergone 600 hours of rigorous durability testing and is designed to withstand repeated extreme operating conditions.

Powered by the GOPS embodied intelligence training framework jointly developed by Openmind and Tsinghua University, R2V1 integrates over 20 mainstream reinforcement learning algorithms to enable highly dynamic whole-body coordinated control. It provides a stable and reliable physical platform for education, research, and commercial performance applications.

Application Scenarios



Commercial Performance



Education & Research

Specifications

Physical Characteristics	Height	148cm		
	Weight	43kg		
	Full-body DOF	22（excluding dexterous hand）		
	Single-arm DOF	4		
	Waist DOF	2		
	Single-leg DOF	6		
	Quick-release Design	Supports quick-swap battery packs and dexterous hands		
Electrical Characteristics	Battery Capacity	9Ah		
	Communication	Ethernet,WiFi6,Bluetooth, 5G		
	Expansion Interfaces	RJ45*2, USB3.0 Type A*2		
	Sensors	IMU*1		
		Optional LiDAR and depth camera support		
	Voice interaction System	Optional microphone and speaker support		
Performance	Walking Speed	1m/s		
	Running Speed	2m/s		
	Battery Life	2h(standard runtime)		
Controller	Computing Power	157 TOPS	Operating Temperature	-10°C~50°C
	CPU	8xCortex A78AE 2.0GHz	GPU	1024 NVIDIA® CUDA® cores
	Memory	16GB LPDDR5	Storage	512GB SSD
	Interfaces	Ethernet port*4,USB 3.1 TYPE C*4		
		HDMI*1, AUX*1, RS485*2, GMSL*6		
Control Modes	Zero-torque mode, standby mode, damping mode, debugging mode, motion mode			
Teleoperation	Supports gamepad control and VR teleoperation			
Ecosystem Integration	Upgrade Method	OTA(supports remote firmware and software package distribution, one-click upgrades, and rollback)		
	API/SDK	Supports ROS2, Python / C++, and Ubuntu; provides URDF files, simulation models, EtherCAT support, and standard SDK		

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