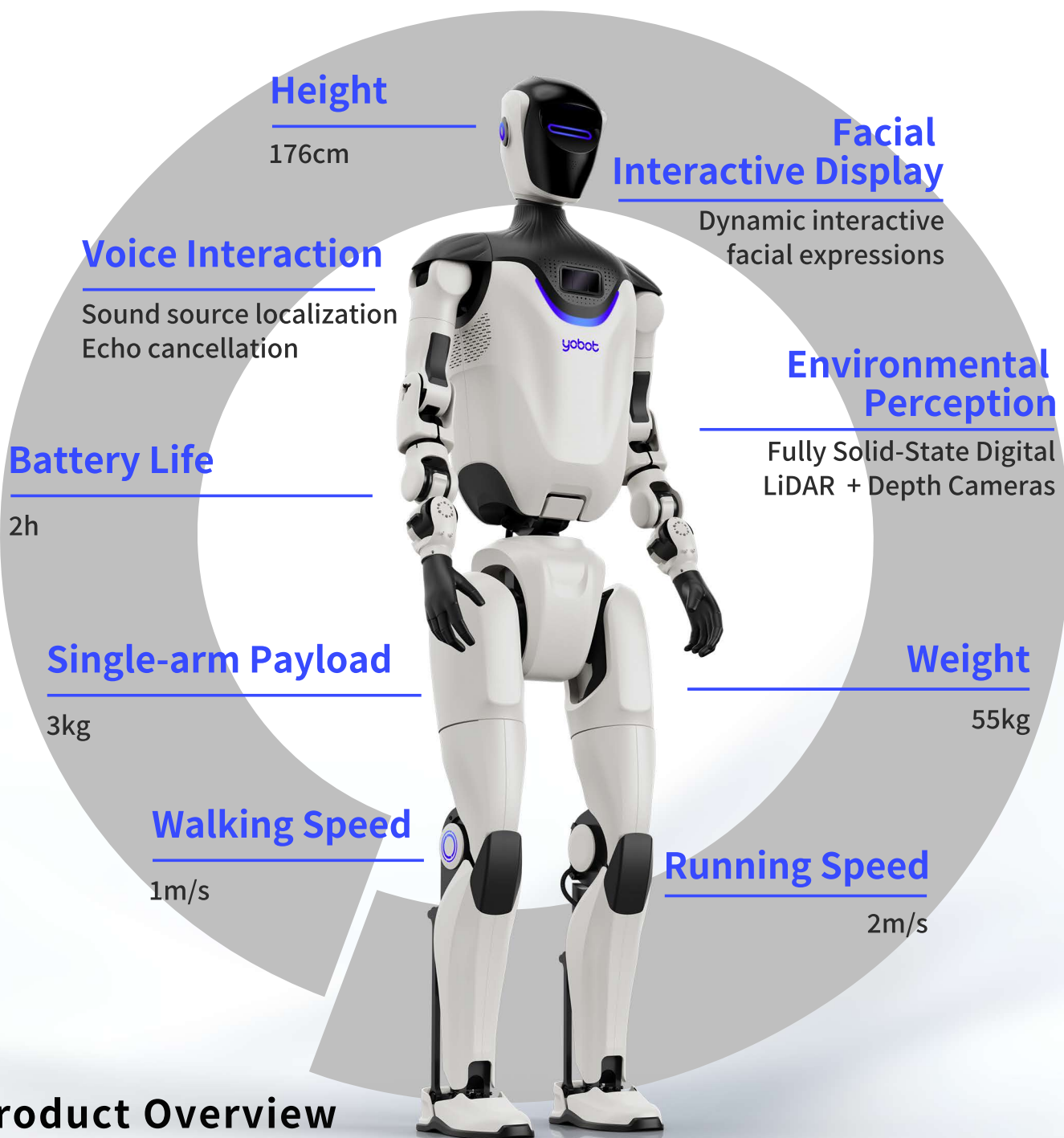




Product Overview

R2V2 is the hard-working member of the Openmind family, purpose-built for high-intensity operations. Its whole-body coordinated control algorithm breaks the separation between locomotion and manipulation, enabling the natural integration of mobile operation.

Built on a general-purpose visual understanding system and an atomic skill library, R2V2 supports generalized manipulation across object categories and application scenarios. Operational data flows back into Openmind's general technology platform, forming a closed loop of data collection, training, validation, and feedback, enabling the robot's skills to continuously evolve through real-world use.

Specifications

Physical Characteristics	Height	176cm	Weight	55kg
	Full-body DOF	30 (excluding dexterous hands)		
	Neck DOF	2	Waist DOF	2
	Single-arm DOF	7	Single-leg DOF	6
Electrical Characteristics	Quick-release design	Supports quick-swap battery packs and dexterous hands		
	Battery capacity	9Ah	Max Joint Peak Torque	150N • m
	Communication	Ethernet,WiFi6,Bluetooth, 5G		
	Expansion Interfaces	RJ45*2, USB3.0 Type A*2		
	Sensors	Fully Solid-State Digital LiDAR*1、Depth cameras*3(1 on head, 1 on each wrist)、IMU*1		
	Voice Interaction System	Circular microphone array(6 mics), speaker; supports sound source localization and echo cancellation		
Performance	Walking Speed	≥1m/s		
	Single-arm Payload	≥3kg		
	Battery Life	2h		
Controller	Computing Power	275 TOPS	Operating Temperature	-10°C~50°C
	CPU	12×Arm Corte x A78AE cores	GPU	2048 NVIDIA® CUDA® cores
	Memory	1TB SSD	Storage	64GB LPDDR5
	Interfaces	10GbE port*1, Gigabit Ethernet ports*8, USB 2.0*2, USB 3.2*8		
		HDMI*1, AUX*1, RS485*2, GMSL*12		
Facial Interaction Display	Supports 15+ dynamic interactive facial expressions			
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		
	Secondary Development	Provides secondary development interfaces and supports customized robot motion development		

Application Scenarios



Retail Shelf Replenishment



Pharmacy Order Picking

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