

DEEP Robotics



DR-02

The World's First All-
Weather, Industrial-Grade
Humanoid Robot

IP66 Dustproof & Waterproof Protection

Designed for all-weather outdoor operations.



High Motion Performance

- Walking speed: 1.5 m/s
- Maximum speed: 4 m/s
- Stair climbing height: 25 cm
- Slope angle: 20°



Wide Operating Temperature Range

-20°C ~ 55°C



Comprehensive Hardware Configuration

- High computing power: Up to 275 TOPS of AI performance
- Multi-sensor fusion:



Quick-Disassembly Design



Modular components



Autonomous Navigation



Intelligent Obstacle Avoidance

Parameter

DR02

DR02 Pro

General Specifications	Standing Height	175cm	175cm
	Weight (with battery)	65kg	75kg
	Length of Arm	68cm (excluding end effector)	68cm (excluding end effector)
	Dexterous Hand	-	Optional
	Degree of Freedom(Total Joints)	21	31
	Single Leg Degrees of Freedom	6	6
	Single Arm Degrees of Freedom	4 (excluding end effector)	7 (excluding end effector)
	Waist Degrees of Freedom	1	3
	Neck Degrees of Freedom	-	2
	Max Dual-Arm Payload	10kg	10kg
Swappable Battery	Supported	Supported	
Battery Capacity	20Ah (1440Wh)	20Ah (1440Wh)	
Environmental Specifications	Ingress Protection	IP66	IP66
	Operating Temperature	-20°C~55°C	-20°C~55°C
Motion Specifications	Maximum Test Speed[1]	4m/s	4m/s
	Maximum Walking Speed	1.5m/s	1.5m/s
	Max Continuous Stair Height[2]	25cm	25cm
	Maximum Slope Angle[3]	20°	20°
Hardware Configuration	Computing Power	Industrial-grade 64-bit octa-core processor ×1 (16GB+128GB)	Industrial-grade 64-bit octa-core processor ×1 (16GB+128GB) AI Processor×1
	Depth Camera	-	×3
	LiDAR	×1	×1
	Wide-Angle Camera	×1	×1
	Microphone array and speaker	×1	×1
Functions & Interfaces	SLAM Mapping & Navigation[4]	●	●
	Voice Interaction[5]	●	●
	Secondary Development	Supports motion development	Supports motion and perception development
	OTA Updates	●	●
	Hardware Interface	Power Interface (72V) Gigabit Ethernet	Power Interface(24V/72V) Gigabit Ethernet, USB 3.0, UART

* All specifications are based on official laboratory test data. Actual performance may vary. Final interpretation rights belong to DEEP Robotics.

[1] Lab-tested extreme data; not open to external use for safety reasons.

[2] Lab-tested data; stair tread depth must exceed the length of the robot's foot.

[3] Lab-tested data; actual performance may vary by surface material.

[4][5] This feature will be available via a future OTA update.

