PUDU D5 Series

Industry-Grade Autonomous Quadruped Robot

- NVIDIA-Powered Computing Platform
- 360° Perception for Safety Assurance
- All-Terrain Mobility
- All-Weather Adaptability
- Intuitive Voice & Gesture Interaction
- Compatible with Multiple Peripherals



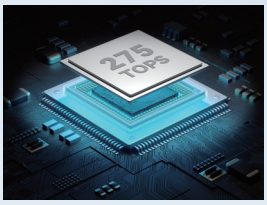
PUDU

Autonomous Navigation with 360° Perception



Dual 96-line LiDAR* and four fisheye cameras deliver full-surround sensing with centimeter-level accuracy.

The NVIDIA Orin + RK3588 platform offers 275 TOPS of computing power with efficient thermal design for stable high-load operation.



All-Terrain Mobility for Complex Environments

Easily handles 25 cm steps and 45° slopes. Cruises at up to 5 m/s for fast, stable movement across urban and off-road environments.



All-Weather Durability and Extreme Resilience

D5 series supports cold-start at -10°C, operates from -20°C to 55°C, and achieves IP67 ingress protection for dependable performance in rain, snow, dust, and fluctuating climate conditions



Natural Interaction with Gesture and Voice Control

Supports voice commands, gesture control, and autonomous following. A 6-mic array and 10W speaker ensure accurate response even in noisy environments.



Supports gestures such as Stand, Follow, and Crawl, enabling smooth, multimodal interaction and intelligent human-robot collaboration.



Modular Expansion for Endless Possibilities

Open architecture supports add-ons such as delivery boxes and inspection gimbals—ideal for security, inspection, logistics, research, and more.





Product Name	PUDU D5	PUDU D5-W
Standing Dimensions	900 × 543 × 572 mm (35.4* 21.4*22.5 in)	
Weight (with Battery)	56 kg (123.5 lbs)	
Computing Platform	NVIDIA Jetson Orin AGX 64GB + RK3588	
Perception Sensors	Dual 3D LiDAR + Four Fisheye Cameras	
Maximum Joint Torque	165 Nm (121.7 lb·ft)	
Battery Capacity	1000 Wh	
Operating Time	2 ~ 2.5 h	2 ~ 3 h
Continuous Walking Payload	20–30 kg (44–66 lbs)	
Climbing Capability	Up to 80 cm (Up to 31.5 in)	
Maximum Step Height	30 cm (11.8 in)	25 cm (9.84 in)
Slope Capability	45°	
Operating Temperature	–20°C to 55°C (–4°F to 131°F)	
Cold-Start Capability	Below –10°C (Below 14°F)	
Ingress Protection	IP67	
Autonomous Navigation	Supported	
Autonomous Following	Supported	
Voice Interaction	Supported	



1. Some features are not yet available to customers; Please refer to the latest product documentation.
2. The product is continuously updated. The delivered version may differ slightly from the promotional materials. Please confirm details with your sales representative.
3. Accessories such as the inspection kit and charging dock are optional and sold separately.
4. All performance data are based on lab testing. Actual results may vary by environment.
5. PUDU D5 Series comes standard with dual high-precision 96-line LiDAR, with an optional upgrade to dual 192-line LiDAR available for enhanced perception needs.

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