

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



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, 30° climbs, and 45° descents. 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) | 61 kg (134.5 lbs) | 62 kg (136.7 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 ~ 2.5h | 2 ~ 3h |
| 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 | 25° ascent, 45° descent | 30° ascent, 45° descent |
| 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.

