

PAL

KANGAROO PRO

LEAP INTO THE FUTURE OF DYNAMIC BIPEDAL ROBOTICS

Symmetric Workspace

Wide range of motion for front and rear manipulation tasks

Anthropomorphic Design

Human-like torso actuation

Plug & Play

Easy to integrate custom end-effectors

Novel Leg Architecture

Linear actuators with closed kinematic chains for efficient locomotion

Height from

152 cm

Weight from

50 kg

Control loop

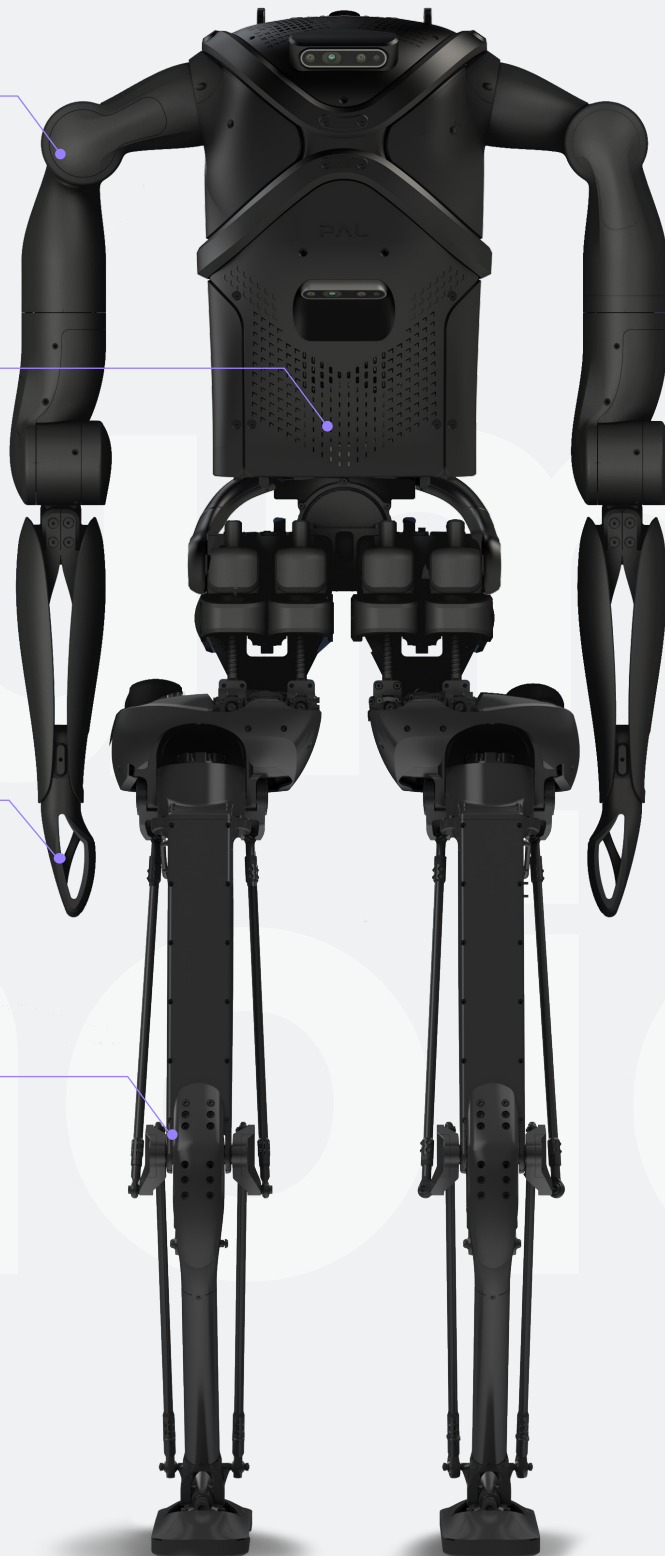
2 kHz

Leg DoF

6

Arm DoF

Up to 7



KANGAROO

PRO

TECHNICAL SPECIFICATIONS



Version	Lite	Standard	Plus
Height	1,52 m	1,58 m	1,58 m
Weight	50 kg	55 kg	60 kg
Control loop	1 kHz Ethercat	2 kHz Ethercat	2 kHz Ethercat
Autonomy	Up to 3 hours	Up to 3 hours	Up to 3 hours
Control PC	Intel i7, 32GB RAM, 1TB SSD	Intel i7, 32GB RAM, 1TB SSD	Intel i7, 32GB RAM, 1TB SSD
Multimedia PC	-	Intel i7, 32GB RAM, 1TB SSD	Intel i7, 32GB RAM, 1TB SSD
Connectivity	Wi-Fi 6 x2 (2.4 GHz + 5 GHz)	Wi-Fi 6 x2 (2.4 GHz + 5 GHz)	Wi-Fi 6 x2 (2.4 GHz + 5 GHz)
Legs	2x 6 DoF Leg	2x 6 DoF Leg	2x 6 DoF Leg
Torso	Fixed torso	2 DoF	2 DoF
Perception kit	-	4x RGB-D Cameras	4x RGB-D Cameras
AI Kit	-	NVIDIA Jetson Orin AGX	NVIDIA Jetson Orin AGX
Leg Force Sensors	-	-	One per leg actuator
Arms DoF	2x 4 DoF	2x 4 DoF	2x 7 DoF
Torque Sensing (One per arm actuator)	-	✓	✓
Arms Payload	5 kg	5 kg	3 kg
Compatible Simulators	Isaac Lab Mujoco Gazebo	Isaac Lab Mujoco Gazebo	Isaac Lab Mujoco Gazebo
ROS 2 API	✓	✓	✓
Transport case	Basic	Basic	Premium
Documentation	✓	✓	✓
Support & Maintenance	Yearly Subscription	Yearly Subscription	Yearly Subscription
			ADD-ONS
			Wrist Force/Torque Sensors
			Feet Force/Torque Sensors
			Interchangeable End-Effectors:
			ISO 9409-1 Tool Changer
			PAL Parallel Gripper
			Humanoid Hand

PASSION FOR ROBOTICS

pal-robotics.com

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