PAL

KANGAROO PRO

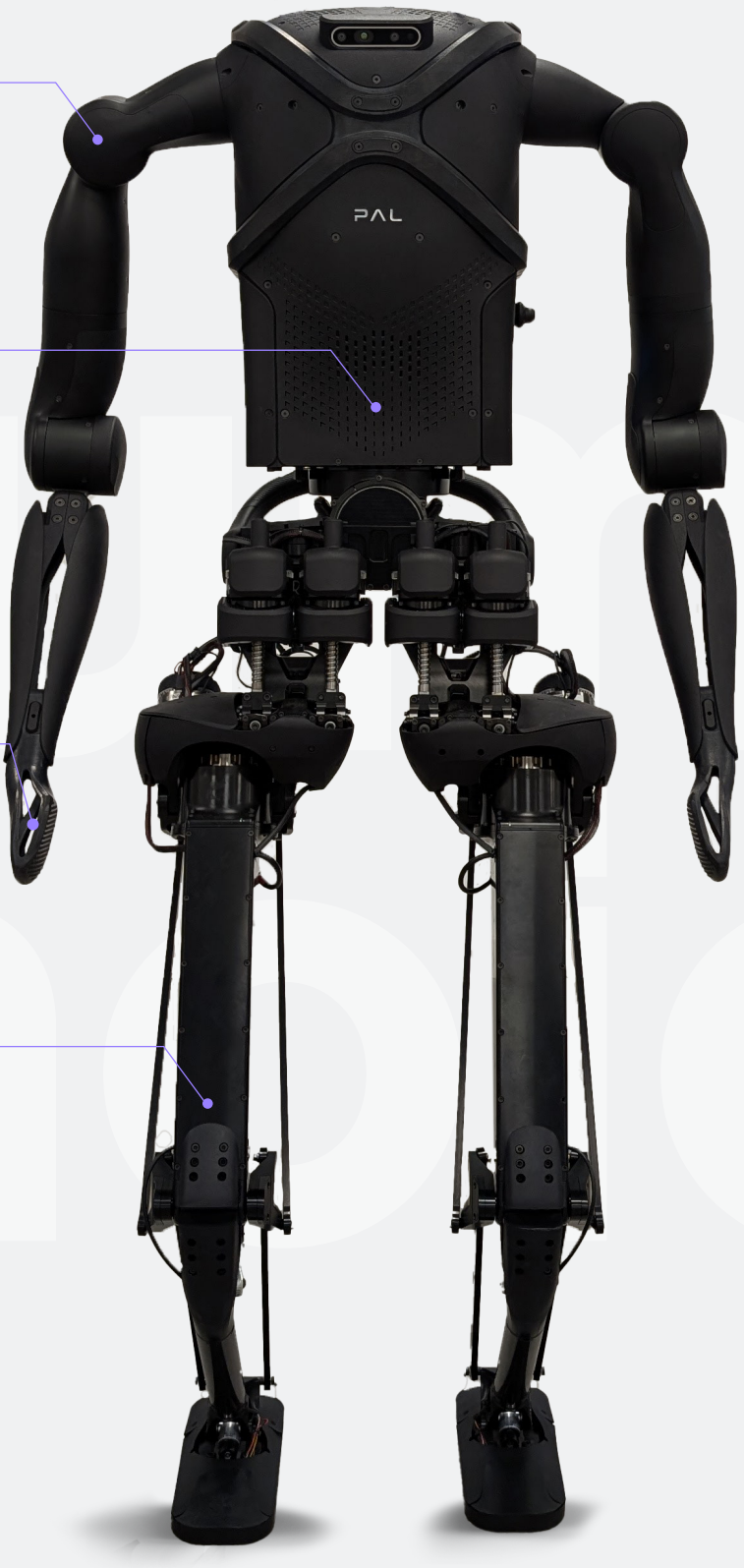
LEAP INTO THE FUTURE OF DYNAMIC BIPEDAL ROBOTICS

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

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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, 1 TB SSD	Intel i7, 32GB RAM, 1 TB SSD	Intel i7, 32GB RAM, 1 TB SSD
Multimedia PC	-	Intel i7, 32GB RAM, 1 TB SSD	Intel i7, 32GB RAM, 1 TB 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	2× 6 DoF Leg	2× 6 DoF Leg	2× 6 DoF Leg
Torso	Fixed torso	2 DoF	2 DoF
Perception kit	-	4× RGB-D Cameras	4× RGB-D Cameras
AI Kit	-	NVIDIA Jetson Orin AGX	NVIDIA Jetson Orin AGX
Leg Force Sensors	-	-	One per leg actuator
Arms DoF	2× 4 DoF	2× 4 DoF	2× 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

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