

PAL

# KANGAROO

LEAP INTO THE FUTURE OF DYNAMIC BIPEDAL ROBOTICS

## Robust Design

Combination of flexible and rigid materials for impact absorption

## Proximal actuation

Optimized actuator placement to enhance dynamic movements

## Novel leg architecture

Linear actuators with closed kinematic chains for efficient locomotion



## Height

160 cm

## Weight from

35 kg

## Control loop

2 kHz

## Leg DoF

6

## Autonomy

Up to 4h

# KANGAROO

## TECHNICAL SPECIFICATIONS



Version	Lite	Standard	Plus
Height	1,6m	1,6m	1,6m
Weight	35 kg	38 kg	40 kg
Control loop	1 kHz Ethercat	2 kHz Ethercat	2 kHz Ethercat
Autonomy	Up to 4 hours	Up to 4 hours	Up to 4 hours
Control PC	Intel i7, 32GB RAM, 1TB SSD	Intel i7, 32GB RAM, 1TB SSD	Intel i7, 32GB RAM, 1TB SSD
Multimedia PC	Add-on	Intel i7, 32GB RAM, 1TB SSD	Intel i7, 32GB RAM, 1TB SSD
Connectivity	WI-FI 6 x2	WI-FI 6 x2	WI-FI 6 x2
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 Camera	4x RGB-D Camera
AI Kit	-	NVIDIA Jetson Orin NX	NVIDIA Jetson Orin AGX
Force Sensors	-	-	One per actuator
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