### **Product Specifications**

- Not available, o Optional, Standard Version **Oli** EDU

0

Head Depth Camera

Chest Depth Camera

9,500mAh

58.8V 10A

Motion Control

about 1.5h

0

0

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IMU Data

 $\odot$ 

0

0

12 Months

RK3588/8G/64G

**Oli** Super

(x2)

Head Depth Camera

Chest Depth Camera

9,500mAh

58.8V 10A

about 1.5h

0

0

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0

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12 Months

LiDAR Data

Visual Perception Data Visual Perception

Orin NX (100TOPS)/ 16G/1T Orin NX (100TOPS)/

Motion Control

RK3588/16G/256G

Wrist Depth Camera Mount Hip Depth Camero Lidar

Oli Lite

9,500mAh

58.8V 10A

about 2h

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0

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0

12 Months

Motion Control RK3588/8G/64G

Model Slide-Out Battery Module

Perception Sensors

Charger

Computing Configuration (SoC/RAM/Storage)

Computing Backpack[3] Battery Life[4]

Voice Interaction

LED Indicators System Status Monitoring

Basic Motion

Development

Remote Control API

Low-Level Motion

Library<sup>[5]</sup> Motion Library Expansion Service

Support

Sensor API

Control API<sup>[6</sup> High-Level Motion

Control API

**OTA Updates** 

(Optional)[8]

Warranty

Studio Package

Module

**Battery Capacity** 

Model	<i>Oli</i> Lite	<i>Oli</i> EDU	<i>Oli</i> Super
Height	165cm/ 5'5"	165cm/ 5'5"	175cm/ 5'9"
Shoulder Width	55cm / 21.7in	55cm / 21.7in	60cm / 23.6in
Arm Length	70cm / 27.6in	70cm / 27.6in	80cm / 31.5in
Weight (Battery Included)	≤55kg / 121.3lbs	≤55kg / 121.3lbs	≤60kg / 132.3lbs
Maximum Load Capacity(Single Arm) <sup>[1]</sup>	3kg / 6.6lbs	3kg / 6.6lbs	5kg / 11.0 lbs
Maximum Moving Speed	5km/h	5km/h	5km/h
Maximum Joint Torque <sup>[2]</sup>	150N·m	150N·m	250N·m
DOF (Total)	31	33	43
Single Leg DOF	6	6	6
Single Arm DOF	7	7	7
Waist DoF	3	3	3
Neck DoF	2	2	2
Humanoid Hand	9	9	0
2-Finger Gripper (1 DOF)	-	<b>⊘</b>	$\odot$
5-Finger Hand (6 DOF)	-	0	0
Self-Developed 2-Finger Gripper (1 DOF)	-	0	0
Self-Developed 3-Finger Gripper (4 DOF)	-	0	0
Remote Controller	<b>②</b>	<b>②</b>	$\odot$
Emergency Stop (Handheld)	-	0	$\odot$
Thermal Management	Air-Cooled Main Control Area	Optimized Air-Cooled Main Control Area	Enhanced Air-Cooled Main Control Area
Communication Interfaces	WiFi 6	WiFi 6	WiFi 6
	BLE 5.4	BLE 5.4	BLE 5.4
	-	USB3.0/3.2 x 1 (USB Hub Supported)	USB3.0/3.2 x (USB Hub Supported)
	-	Gigabit Ethernet (RJ45) x 1	Gigabit Ethernet
	-	-	Type-C x 1 (USB Hub Supported)
	-	-	5G
Power Supply Interfaces		24V 5A*2	24V 5A*4
	-	12V 5A*2	12V 5A*4

[1] Arm's maximum load varies with extension posture. Data may vary under different postures. Please refer to the actual performance.

[2] The maximum torque of each motor varies. This value represents the maximum torque of the highest torque motor.

[3] The computing backpack configuration includes: AGX Orin chip / 64GB RAM / 275 TOPS computing power.

[5] Action libraries included: Standing, humanoid walking, waving, bowing, punching, modern dance, ethnic dance. [6] Supports joint control and end-effector control.

[7] Supports humanoid walking, mobile operation, stationary operation, and remote operation.

[8] Supports hardware status management, voice configuration management, data collection management, motion choreography management, and one-click simulation verification.

### Contact Us

Products are continuously iterated and optimized, and appearance or configuration may change. Please consult with the sales teambefore purchasina.

The data shown above may vary based on environmental conditions, usage, device status, and software version. Please refer to the actual performance.



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# LIMXOli

Full-Size General-Purpose Humanoid Robot

## CROSS THE LIMITS WITH OLI



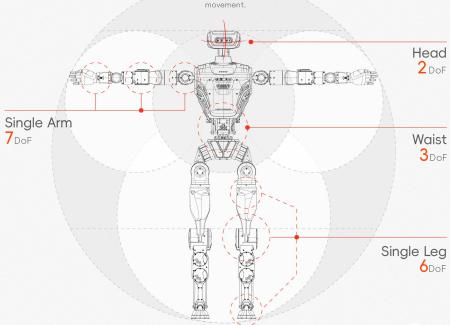


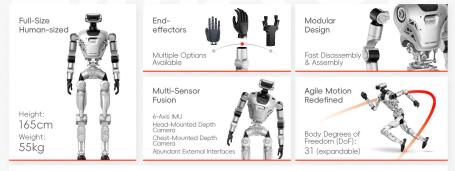
bd@limxdynamics.com



### Full-Size. Full-DoF.

As a full-size humanoid robot, LimX Oli stands 165cm tall and boasts impressive 31 degrees of freedom (DoF), combined with outstanding motion performance, Translating any motion you imagine into smooth, human-like







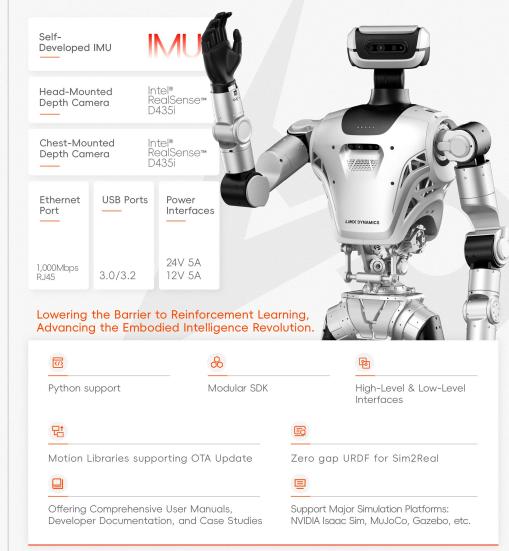
Modular SDK
Intuitive High-Level Interfaces

| Direct-Access Low-Level Interfaces

| Full Python Development Support

### Comprehensive Perception. Boundless Exploration.

Equipped with Self-Developed IMU and depth cameras, plus extensive electrical interfaces for seamless integration of external sensors like LiDAR and additional cameras, enabling comprehensive perception capabilities for complex environment motion control and diverse application scenarios.



Learn More https://github.com/limxdynamics
Support for Innovators, Developers, System Integrators with Continuous Updates