

LIMXOli

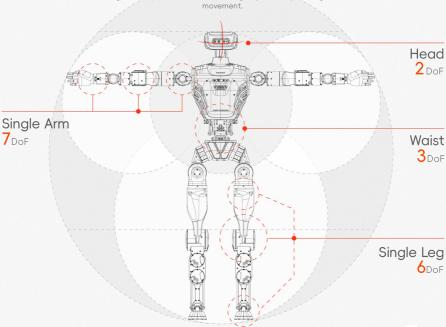
Full-Size General-Purpose Humanoid Robot

CROSS THE LIMITS WITH OLI



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

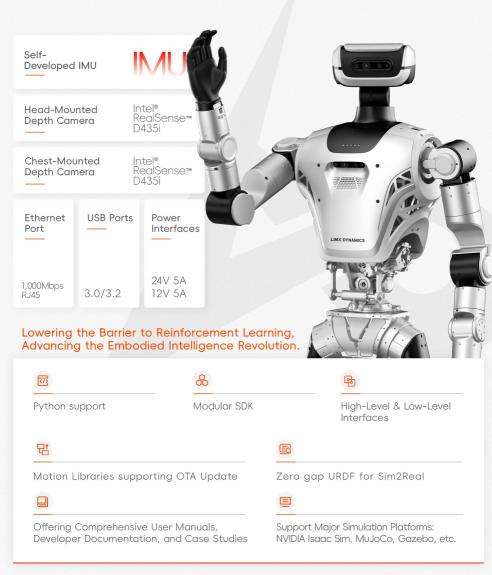
I Intuitive High-Level Interfaces

| 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.



Product Specifications

- Not available, o Optional, 🕑 Standard Version

Oli Super (x2) 9-axis self-developed IMU Head Depth Camera Chest Depth Camera Wrist Depth Camera Mount Hip Depth Camera LIDAR 9,500mAh 58.8V 10A Motion Control RK3588/16G/256G Perception Orin NX (100TOPS)/ 16G/2T

Visual Perception Data IMU Data LiDAR Data 0 0

Model	<i>Oli</i> Lite	<i>Oli</i> EDU	<i>Oli</i> Super	Model	<i>Oli</i> Lite	<i>Oli</i> EDU
Height	165cm/ 5'5"	165cm/ 5'5"	175cm/ 5'9"	Slide-Out Battery Module	-	⊘
Shoulder Width	55cm / 21.7in	55cm / 21.7in	60cm / 23.6in	Perception Sensors	6-axis self- developed IMU	6-axis self- developed IMU
Arm Length					-	Head Depth Camera
	70cm / 27.6in	70cm / 27.6in	80cm / 31.5in		-	Chest Depth Carnera
Weight (Battery Included)	≤55kg / 121.3lbs	≤55kg / 121.3lbs	≤60kg / 132.3lbs		-	-
Maximum Load Capacity(Single Arm) ^[1]	3kg / 6.6lbs	3kg / 6.6lbs	5kg / 11.0 lbs		-	-
Maximum Moving Speed	5km/h	5km/h	5km/h	Battery Capacity	9,500mAh	9,500mAh
Maximum Joint Torque ^[2]	150N·m	150N·m	250N·m	Charger	58.8V 10A	58.8V 10A
DOF (Total)	31	33	43	Computing Configuration (SoC/RAM/Storage)	Motion Control RK3588/8G/64G	Motion Control RK3588/8G/64G
Single Leg DOF	6	6	6		RR3300/00/040	Perception
Single Arm DOF	7	7	7		-	Orin NX (100TOPS)/ 16G/1T
Waist DoF	3	3	3	Computing Backpack ^[3]	-	-
Neck DoF	2	2	2	Battery Life ^[4]	about 2h	about 1.5h
Humanoid Hand	0	0	0	Voice Interaction Module	-	\odot
2-Finger Gripper (1 DOF)	-	9	Ø	LED Indicators	\odot	\odot
5-Finger Hand (6 DOF)	-	0	0	System Status Monitoring	\odot	\odot
Self-Developed 2-Finger Gripper (1 DOF)	-	0	0	Basic Motion Library ^[5]	0	⊘
Self-Developed 3-Finger Gripper (4 DOF)	-	0	0	Motion Library Expansion Service	0	⊘
Remote Controller	②	⊘	\odot	Development Support	-	\odot
Emergency Stop (Handheld)	-	0	\odot	Remote Control API	-	\odot
Thermal Management	Air-Cooled Main	Optimized Air-Cooled Main	Enhanced Air-Cooled Main	Sensor API	-	Visual Perception Data
ai managomoni	Control Area	Control Area	Control Area		-	IMU Data
Communication Interfaces	WiFi 6	WiFi 6	WiFi 6		-	-
	BLE 5.4	BLE 5.4	BLE 5.4	Low-Level Motion Control API ^[6] High-Level Motion	-	0
	-	USB3.0/3.2 x 1 (USB Hub Supported)	USB3.0/3.2 x 1 (USB Hub Supported)			_
	-	Gigabit Ethernet (RJ45) x 1	Gigabit Ethernet (RJ45) x 2	Control API ^[7]	-	Θ
	-	-	Type-C x 1 (USB Hub Supported)	OTA Updates	Ø	0
	-	-	5G	Studio Package		
Power Supply Interfaces		24V 5A*2	24V 5A*4	(Optional)[8] Warranty	-	0
	-	12V 5A*2	12V 5A*4		12 Months	12 Months

[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.

[4] The data above is measured in the LimX Dynamics lab. Actual data may vary due to factors such as environment, usage, device status, and software version. Please refer to the actual performance.

[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

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

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12 Months