

# L7

## Full-size Bipedal Humanoid Robot

Product Model	ROBOTERA L7
Height	1.71 m
Weight (without dexterous hand)	65 Kg
Total DOF (with dexterous hand)	55
Whole-body DOF (excluding dexterous hands)	31
Knee Joint Peak Torque	400 N·m
Knee Joint Peak Speed	25 rad/s
Running Speed	4 m/s
Battery Capacity	60 V 15 Ah
Compute Performance	80 TOPS(x86)+275 TOPS(Orin)
Binocular Camera	✓
3D LiDAR	✓
Microphone Array & Speaker	✓
Dual-arm Payload (with arms flexed at 90 degrees)	20 Kg
Arm Span	1660 mm
Diameter of Operating Range	2.1 m
Dexterous Hand	XHAND1 (Fully Direct-driven, 12 Active DOF, Humanoid Five-finger Dexterous Hand)



Please Scan  
[MKT@robotera.com](mailto:MKT@robotera.com)  
[www.robotera.com](http://www.robotera.com)



**55 Degrees of Freedom (DOF), Whole-body Dexterity**



171cm

**400 N·m 25 rad/s**

Top-performing joint module in China, developed in-house



**360°**

Rotational Jump with Explosive Power



**20 kg**

Payload with dual arm bending elbow.



**4 m/s**

Running Speed, Record-breaking



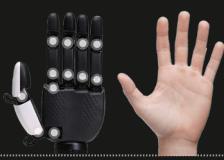
**7-DoF** Humanoid Robotic Arm, Replicating Human Manipulation Abilities



**10** Clicks per Second, E-sports-level Speed



**12-DoF** Dextrous Hand, Fully Direct Drive, Anthropomorphic



**Cross-axis Wrist, Dynamic Upgrade**



**2.1** Diameter Working Space, Wide-range Operation



**360°** Field of View, Full-domain Perception

Equipped with Binocular Vision and 3D LiDAR, Enables Complex Environmental Adaptation



## China's First

VLA Model ERA-42 Drives a 55-DOF Full-body Bipedal Humanoid Robot

Full body or Upper body  
No longer a hard decision



Upgrade

ROBOTERA L7-U

Upper body torso



ROBOTERA L7

Complete Robot

## Super Fun in Entertainment

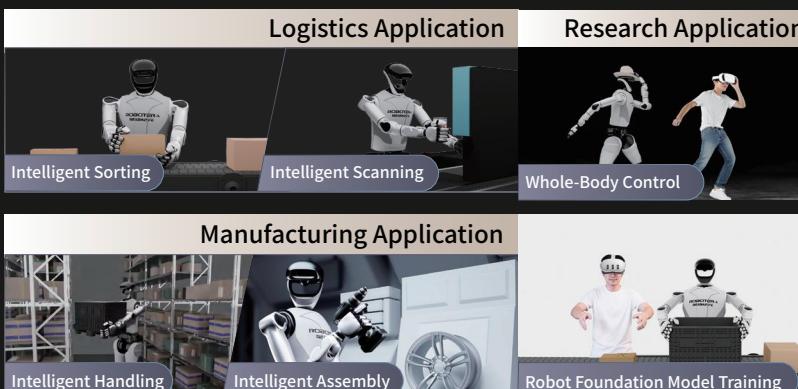


Hip-hop Performance

Bartending Performance

360° Rotational Jump

## Superb in Work



Logistics Application

Intelligent Sorting

Intelligent Scanning

Research Application

Whole-Body Control

Manufacturing Application

Intelligent Handling

Intelligent Assembly

Robot Foundation Model Training