

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
www.robotera.com

171cm



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



400 N·m 25 rad/s
Top-performing joint module in
China, developed in-house



7-DoF Humanoid Robotic
Arm, Replicating Human
Manipulation Abilities



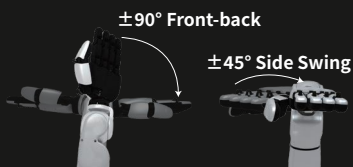
10 Clicks per Second,
E-sports-level Speed



12-DoF Dextrous Hand, Fully
Direct Drive, Anthropomorphic



Cross-axis Wrist, Dynamic Upgrade



360°
Rotational Jump
with Explosive Power



20 kg Payload with
dual arm bending
elbow.



4 m/s Running
Speed,
Record-breaking



2.1Diameter Working Space,
Wide-range Operation



360° Field of View,
Full-domain Perception

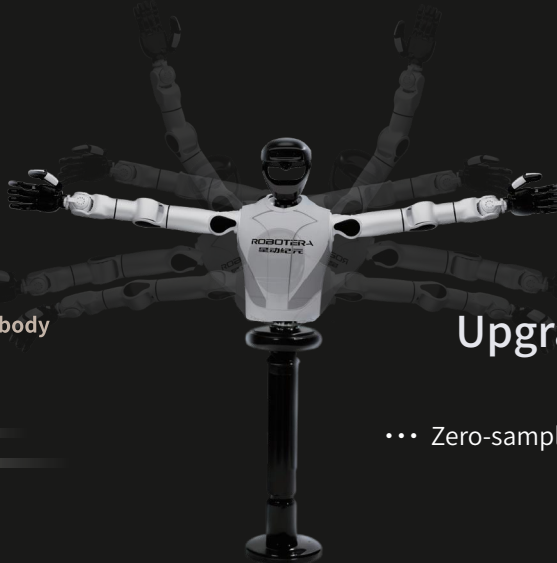
Equipped with Binocular Vision
and 3D LiDAR,
Enables Complex Environmental
Adaptation



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

... Zero-sample Transfer ...>

ROBOTERA L7-U

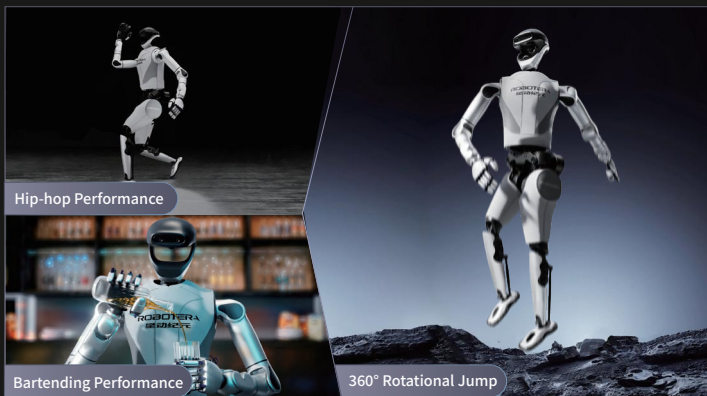
Upper body torso



ROBOTERA L7

Complete Robot

Super Fun in Entertainment

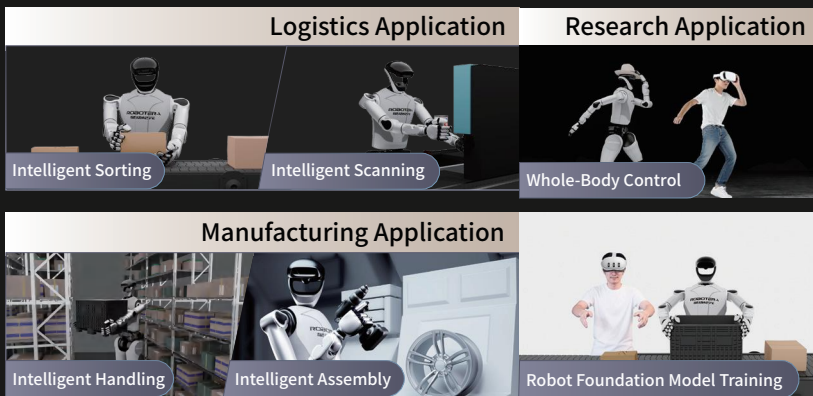


Hip-hop Performance

Bartending Performance

360° Rotational Jump

Superb in Work



Logistics Application

Research Application

Intelligent Sorting

Intelligent Scanning

Whole-Body Control

Manufacturing Application

Intelligent Handling

Intelligent Assembly

Robot Foundation Model Training