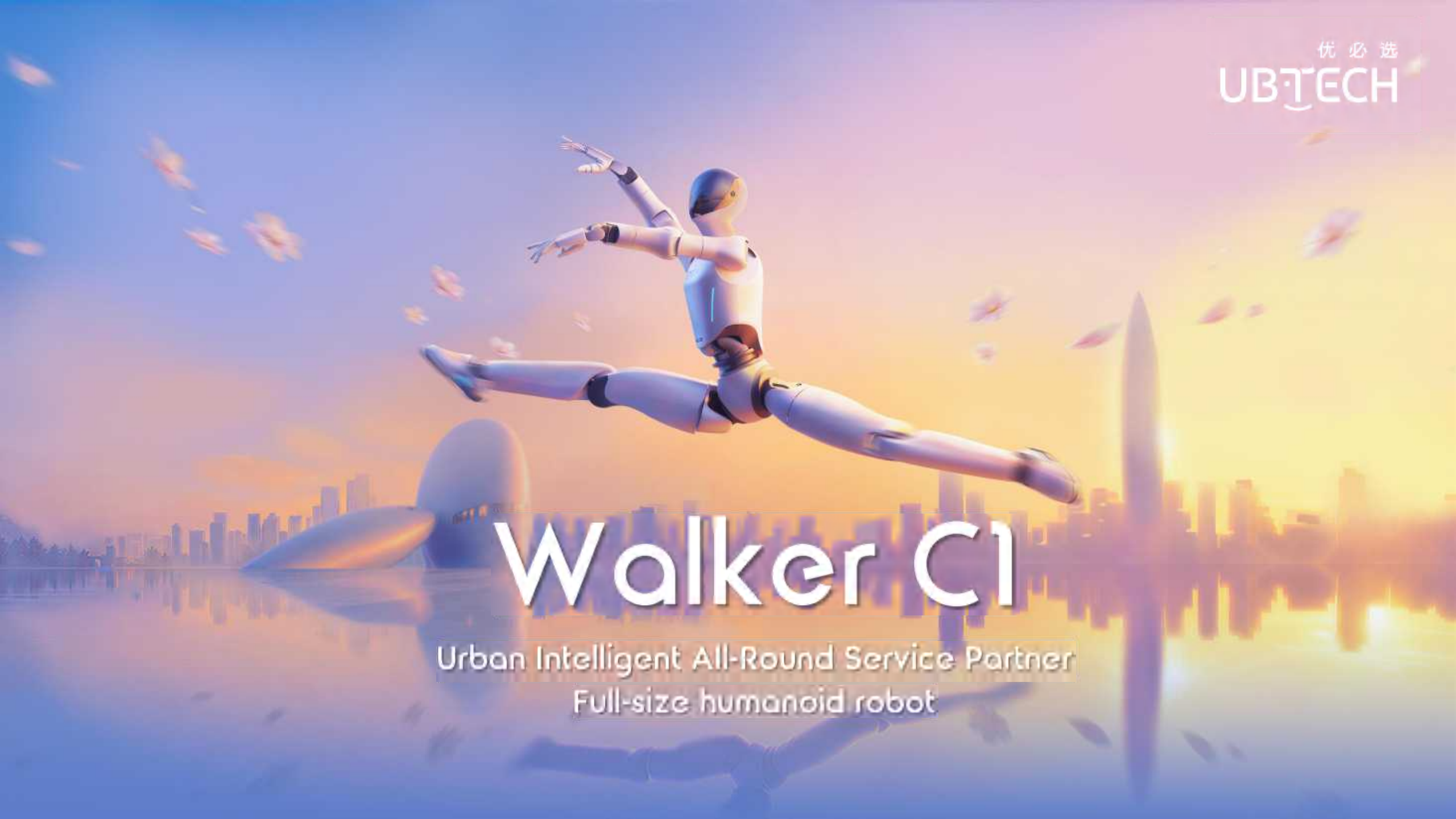
优必选
UBTECH



Walker C1

Urban Intelligent All-Round Service Partner

Full-size humanoid robot

Walker C1

优必选 UBTECH

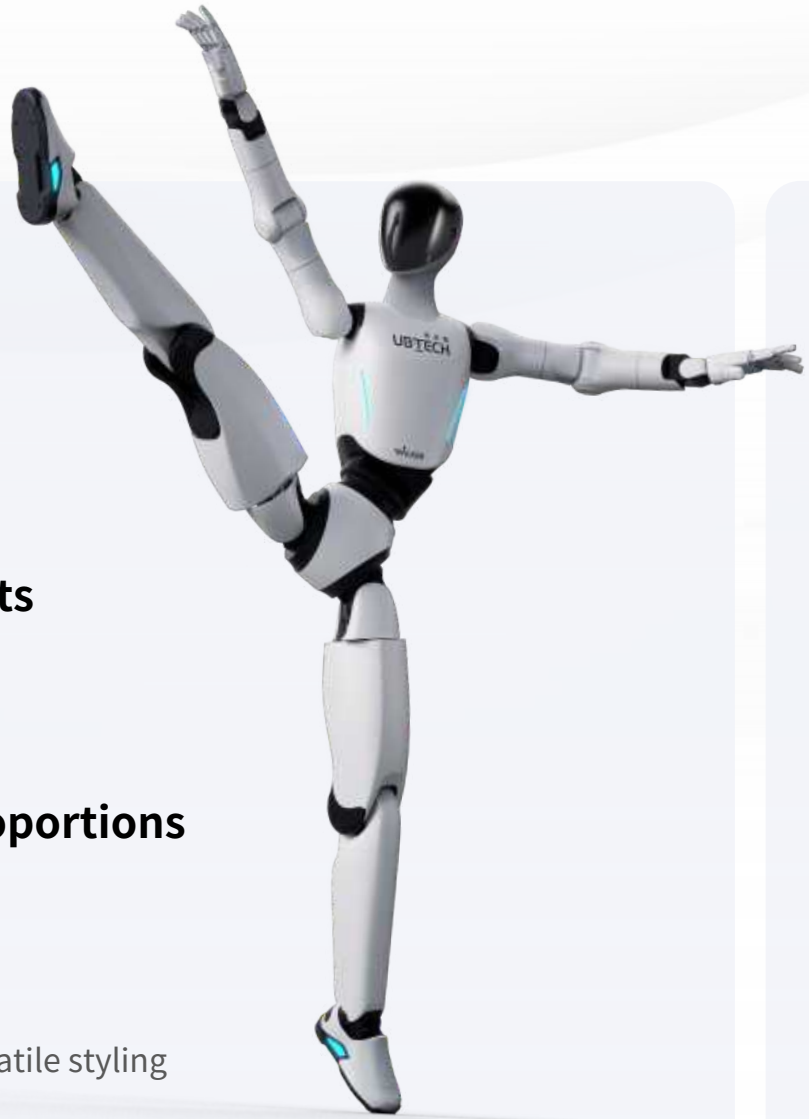
Urban Intelligent Service Partner

Walker C1 is the world's first full-size humanoid robot designed for "urban symbiosis", blending functional aesthetics with outstanding dynamic mobility. Driven by a large-model-powered multimodal intelligent core and leveraging cutting-edge embodied intelligence technology, it innovates multi-scenario urban service applications—including visitor guidance, commercial services, patrol and security, entertainment interactions, and educational research—bringing technological warmth to everyday life.



Full-scale	Degree of Freedom	Net Weight	Computing power
164cm	53DOF	55KG	2070 TFLOPS

Bionic tech-aesthetic design integrated with urban space



Flexible &

supple full-body joints

53 of DOF

Agile and natural postures

Elegant full-body proportions

Height 164cm

Weight 55kg

Elegant & well-proportioned

Easy outfit replacement, versatile styling



Superb Postural Agility

Speed: ⩾3 m/s

Supports walking, running, dancing

Intelligent Domain Control

Large Model Deployment

- **Local Offline Operation**
  Fast Response,Function & Data Security
  Custom Knowledge Base & Spatiotemporal Memory
- **Cloud Compatible**
  Interconnect with Super Brain Computing

3D Space Perception

- **Omnidirectional Perception & Real-time 3D Mapping**
- **Full-body Obstacle Avoidance & Agile Crowd Navigation**
- **Centimeter-level Low Obstacle & Step Detection**
- **Millisecond-level AEB for Walking Safety**



Fully Autonomous Interaction

- **VLN (Vision-Language Navigation)**
- **Thinker-WAM (World Action Model)**

Full-body Trajectory Tracking & Dynamic Balance

- **Human-like walking and running**
- **Dynamic balance on single or both feet**

Capable of executing difficult dance movements

Powerful Computing Power:
NVIDIA® Jetson Thor™ 2070 TFLOPS（FP4）

Robot Operating System Application Framework:
Thinker + Control Center + ROSA2.0

27 safety designs to establish reliable interactive security

Motion Control Safety

Compliance Force Control

Anti-fall Protection

Gentle & Stable Human-Robot Contact



Navigation Safety

Intelligently plan safe routes and actively avoid risks

Millisecond Obstacle Recognition & Emergency Evasion

Adaptive Gait Adjustment & Multi-stability Guarantee

Safety Design

Independent Safety Main Controlle

Fail-Safe Protection



Network and Large Model Security

Local Offline Operation

Protects user privacy and command security.



Electronics and Battery Safety

Multi-level Emergency

Power-off Protection.

Automotive-grade Battery。



Empower every industry
jointly shape a complete urban service ecosystem







Standard Interfaces & SDK

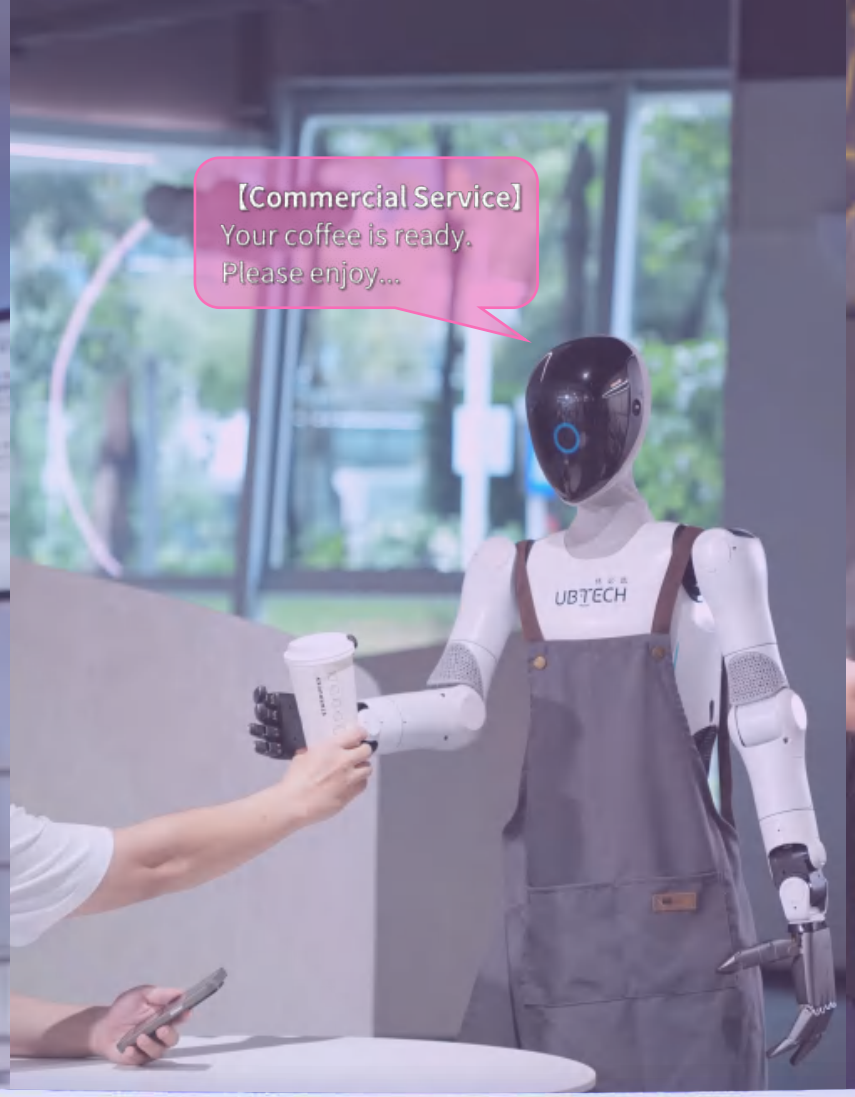
-Wi-Fi 6, 5G (optional), LoRa,
3*USB Type-C, Gigabit Ethernet Port.
-Supports control of servos and sensors.
-Provide upper-layer application APIs.
Significantly lower development complexity
Meet secondary development needs for diverse scenarios.

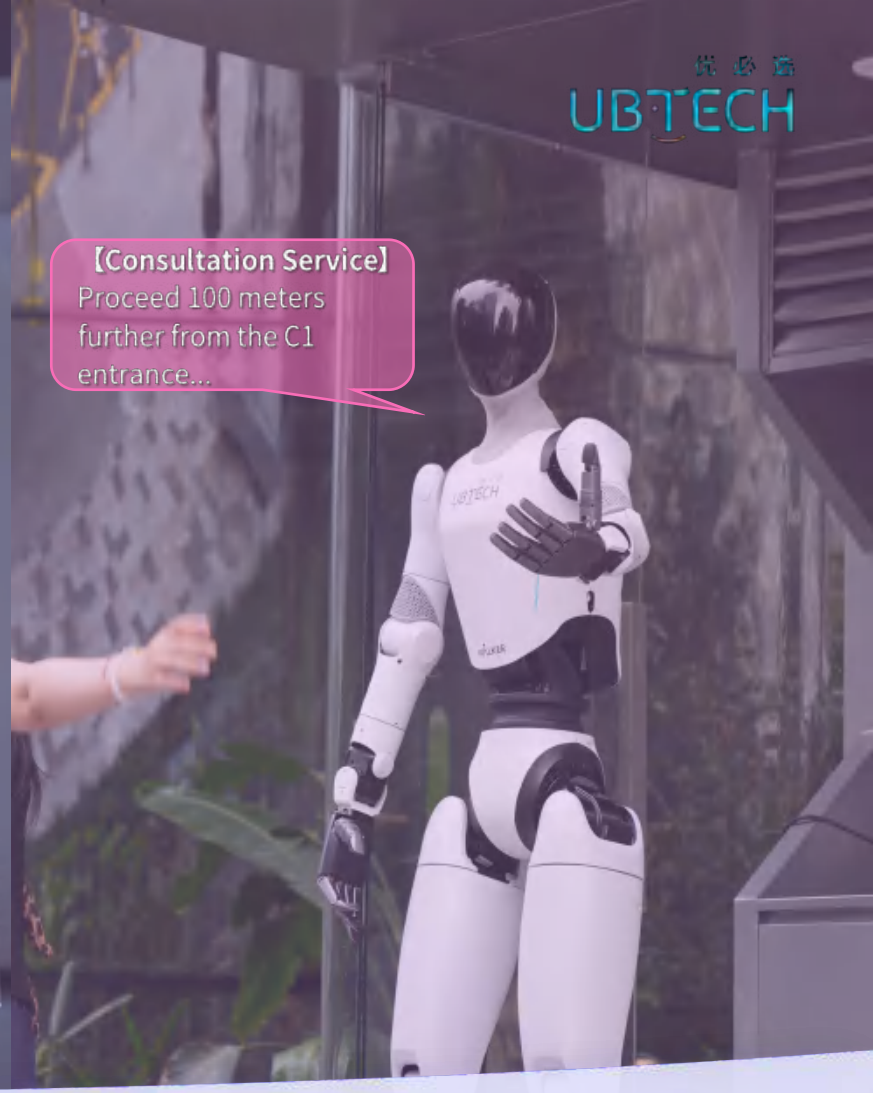
Personalized Customization

- Provide basic motion libraries (facial expressions, movements, dances) and support custom motions.
- Customizable knowledge base, tailored for diverse industries.
- Software Platforms for Efficient Management & Creation (Cloud Platform, Content Creation Platform, APP Control Platform)

Enable robots to deliver reliable services in diverse scenarios.







Urban Symbiosis

Humanoid design with quick outfit changes for versatile styling.
Embodied AI caters to diverse urban service needs.
SDK packages and open API interfaces are provided for secondary development in specific application scenarios.

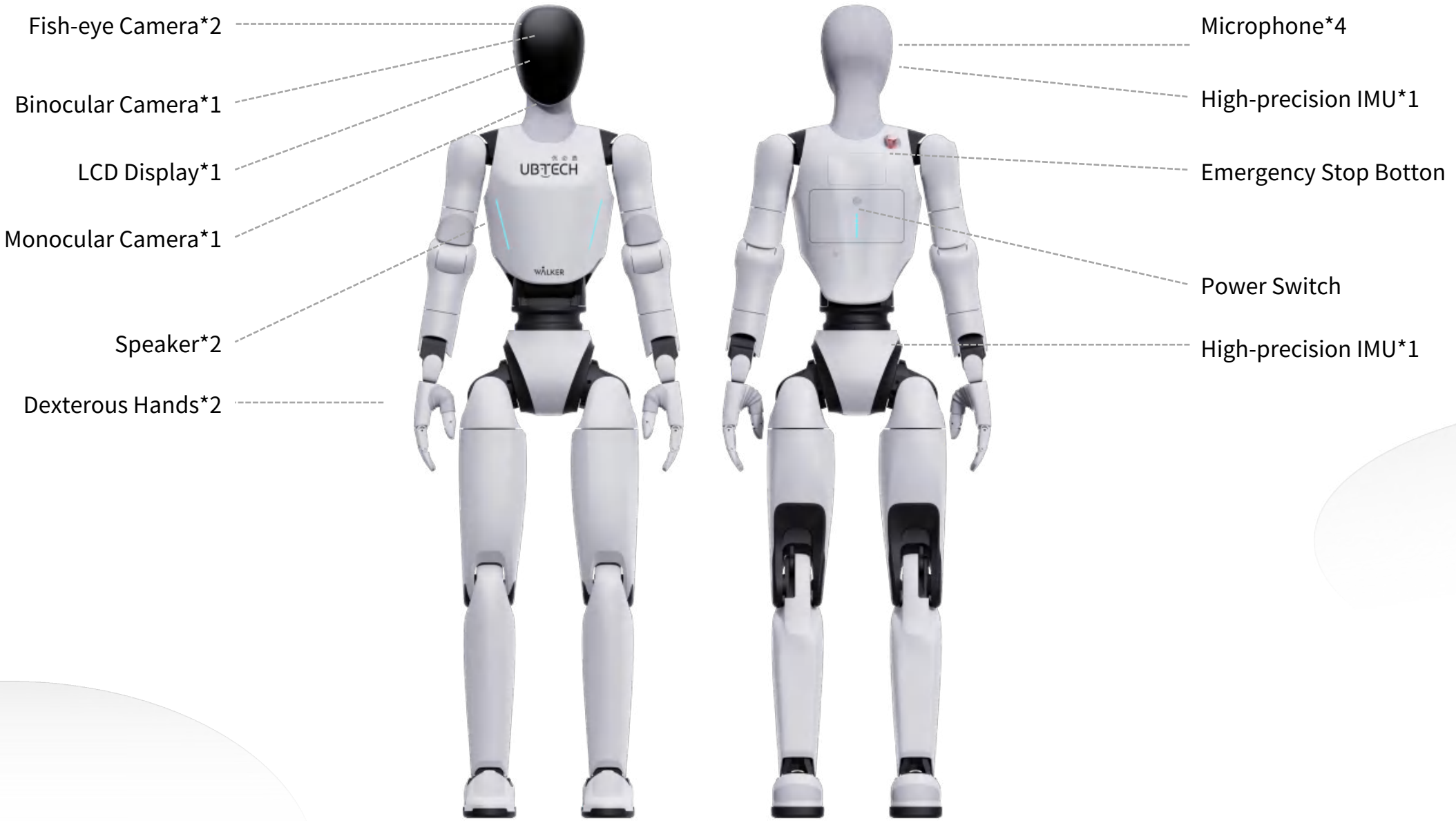
- Greeting and Reception
- Tour Guiding and Explanation
- Interactive Entertainment
- Commercial Service
- Patrol Inspection



Dance Along with Life

Speed ⩾3 m/s; Supporting movement expressions such as walking, running, and dancing.
Built-in a basic action library and support custom action settings.
Equipped with full-body trajectory tracking and dynamic balance algorithms.
3D Navigation with Real-time Obstacle Avoidance, ensures safe and stable human-machine interaction.

Walking Running Dancing


Fish-eye Camera*2
Binocular Camera*1
LCD Display*1
Monocular Camera*1
Speaker*2
Dexterous Hands*2
Microphone*4
High-precision IMU*1
Emergency Stop Botton
Power Switch
High-precision IMU*1
UBTECH
WALKER

Product Parameter

General Parameters	Height: 164 cm Weight: 55 kg	Color Scheme: Suet White + Obsidian Black
End Effector	Standard: Model Hand Optional: Dexterous Hand	Dexterous Hand Degrees of Freedom: 11 (6 active DOF, 5 passive DOF)
Intelligent Control Domain	Processor: NVIDIA® Jetson Thor™ 128 GB Computing Power: 2070 TFLOPS (FP4)	RAM (DRAM): 128 GB Operating System: Ubuntu + ROSA 2.0
Communication	External Communication Interfaces: WiFi 6, 5G (Optional), LoRa, 3 * USB Type-C, Gigabit Ethernet Port	External Communication Protocols: MQTT, HTTP, WebSocket
Power Supply	Battery Voltage: 48 V Battery Capacity: 14 Ah	Charging Time: ⩽ 1 h 45 min Comprehensive Endurance: 3 h
Interaction Modes	Screen: 2.8-inch circular display on face Indicator Lights: Battery indicator, robot status light strip	Microphones: 4 array microphones, supporting sound source localization and noise reduction Speakers: 2 units
Sensors	1*Binocular Camera, 2*Fisheye Camera, 1*Chin Monocular Camera	2* High-precision IMU (Inertial Measurement Unit)
Motion Control	Speed: ⩾ 3 m/s	Dual-arm Load: 6 kg
Others	Intelligent OTA Update: Supported	Secondary Development: Supported

第四届中国国际供应链促进博览会
The Fourth China International Supply Chain Expo

优必选 UBTECH

第四届链博会官方独家人形机器人合作伙伴
The First Official Humanoid Robot Representative of the China International Supply Chain Expo

Dream with Robots