GATEIN TECHNOLOGY
جيت ان تكنولوجي

PRODUCT PRESENTATION · RESEARCH HUMANOID

UBTECH Walker E

Full-Size Humanoid Robot for Research & Education

Helping young engineers pursue humanoid innovation and original breakthroughs, and growing next-generation talent in embodied intelligence.

Presented by GateIn Technology · Exclusive UBTECH partner in Egypt



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Walker E core advantages

A full-size, research-grade humanoid for universities, research institutions and developers.



Full-size & high-performance

172 cm, 41 DOF, 10 km/h sprinting; integrated joints with 300 N·m peak torque; aluminium + titanium alloy.

Dual-battery thermal management

30 Ah + 3 Ah hot-swappable batteries, full-body air-duct cooling: 3 h continuous motion, 8 h operation.

Modular, highly scalable

7-DOF collaborative arms, 6-DOF dexterous hands, 3-DOF head; depth cameras, AI voice, six-axis force sensors, 550 TOPS Orin, LiDAR.

Open-source ecosystem

ROS2-compatible APIs for motors, sensors and motion; URDF models, open training framework, “Huisikaiwu” platform.

University-industry-research

UBTECH Humanoid Research Fund: standardization, grants and global competitions.

Application scenarios

Commercial services, complex terrain, industrial logistics, healthcare, home assistance, power inspection.

Walker E key figures

172 cm
HEIGHT
Net weight ≈73 kg

41
TOTAL DOF

300 N·m
PEAK TORQUE

≥10 km/h
MAX SPEED

550 TOPS
AI COMPUTE
2 × NVIDIA Jetson AGX Orin

3 h / 8 h
RUNTIME
Continuous / standby

30 + 3 Ah
BATTERY
Dual-cell, hot-swappable

×3
DEPTH CAMERAS

Walker E Product parameters

Parameter	Walker E
Structure materials	High-strength aluminium alloy + titanium alloy + engineering plastic
Arm DOF	7 (shoulder 3, elbow 1, wrist 3) × 2
Leg DOF	6 (hip 3, knee 1, ankle 2) × 2
Head/neck · hands	3-DOF head module · 6-DOF dexterous hand × 2 (standard)
Joint module	Full-stack self-developed integrated joint modules
Motor control modes	Hybrid force-position / velocity / position
Motion control	Traditional + reinforcement-learning hybrid architecture
Middleware · comms	ROS2 · internal CAN/EtherCAT · Wi-Fi, Bluetooth 5.2, Ethernet
Standard configuration	Robot body, 200 W power adapter, wireless controller, user manual; SDK + open-source framework

Specifications subject to change; final interpretation reserved by the manufacturer.

Optional configurations

1 · Basic accessories kit

Aviation case, safety rope, display stand: storage, transport and daily placement.

2 · Voice & vision interaction kit

Depth camera × 2, LiDAR, AI voice kit, 275 TOPS Orin board: voice, visual navigation, language/vision large models.

3 · Embodied manipulation kit

Depth camera, 7-DOF arms × 2, 3-DOF head, 6-DOF hands × 2, 6-axis force sensors × 2, 275 TOPS Orin: hand-eye coordination, dexterous manipulation, VLA.

Applicable scenarios

Research: motion control, multimodal perception, large models, RL. Education: robot engineering and AI practice. Innovation: commercial, logistics, medical, home, inspection.

GateIn One accountable partner

We don’t just ship the Walker E. GateIn designs, supplies, installs, integrates and supports UBTECH solutions for universities, schools, government and industry, from the first plan to long-term support.

+120
ROBOTS SUPPLIED IN EGYPT
Industrial, service and educational

91
LABORATORIES
Across 45 institutions

+30
STRATEGIC & GLOBAL PARTNERS

5
YEARS OF DELIVERY
Since 2021

Design | Sourcing | Installation | Integration | Training | Long-term Support

An integrator, not a vendor.

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Let’s plan your Walker E deployment

gateintech.com · info@gateintech.com · +20 109 806 5088
Mohandessin, Giza, Egypt

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