GATEIN TECHNOLOGY
جيت ان تكنولوجي

PRODUCT PRESENTATION · INDUSTRIAL HUMANOID PLATFORM

Walker S2 EDU Explorer

An Open Humanoid Robot Platform for Industrial Scenarios

Open, stable, explorative: high payload, precision operation and long endurance for research institutions, developers and system integrators.

Presented by GateIn Technology · Exclusive UBTECH partner in Egypt



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High-payload & precision operation platform



Full humanoid structure

Up to 52 degrees of freedom for complex motions and full-body coordination.

Stable motion performance

High-performance joints for both dynamic execution and stability.

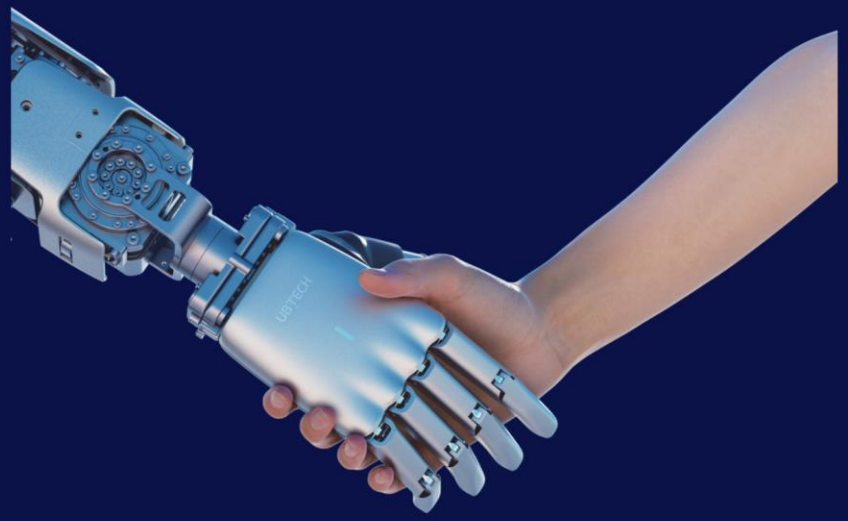
Continuous operation

Autonomous battery swapping and long-duration operation.

Industrial adaptability

Handling, sorting, inspection and human-robot collaboration.

Multi-layer open development framework



Flexible end-effectors

Dexterous hands, two-finger grippers and clamps.

Open low-level & app interfaces

Joint control, locomotion and navigation APIs with sample code.

Comprehensive toolchain

Imitation learning, reinforcement learning, VLA and real-world deployment.

Co-Agent collaboration

Multi-capability coordination and task orchestration.

Data services & developer ecosystem

Complete data acquisition

Closed loop based on teleoperation and data platforms, with multiple acquisition modes.

Multi-scenario data

Standardized datasets from multiple factories and environments.

Data acquisition factories

Multiple facilities provide continuous data acquisition.

Thinker cosmos platform

Cloud workflow from training to simulation and evaluation.

Collaborative development

Joint R&D, workshops, training camps and competitions.

Deployment support

From technical validation to real-world commercial deployment.

Walker S2 EDU Technical specifications



Specification	Walker S2 EDU Explorer
Height · weight	176 cm · ≈70 kg
Degrees of freedom	52 total · 7 per arm · 6 per leg
Cameras	1MP camera × 4, RGB-D camera × 2, wrist-mounted camera
Sensors	High-precision IMU, pose sensor × 2, six-axis force sensor × 2
Screen · voice	4-inch circular display (720 × 720) · mic array × 4, speaker × 2
End-effectors	Five-fingered dexterous hand, two-fingered gripper, gripper plate
Battery · endurance	48 V 7 Ah LiFePO4 × 2 · ≥3.5 h
Computing	Intel i7 onboard · 275 TOPS AI computing
Comms · middleware	Wi-Fi/5G · ROSA 2.0 · open interface
Dual-arm payload	≤15 kg
Supported capabilities	Autonomous battery swap, carrying, sorting, squatting, depalletizing, palletizing, navigation

Application scenarios



Research & education

Data processing, algorithm development, model optimization, teaching practice.

Development & integration

Secondary development, application building, system integration, scenario deployment.

Industrial applications

Handling & sorting, inspection, human-robot collaboration, industrial data acquisition.

Standard deliverables

Robot unit, course package, user manual, remote controller, power adapter; SDK documentation and URDF files.

GateIn One accountable partner

We don't just ship the Walker S2 EDU. 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
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An integrator, not a vendor.

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Let’s plan your Walker S2 EDU deployment

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