AGIBOT G2

Industrial-Grade Interactive Embodied Operation Robot

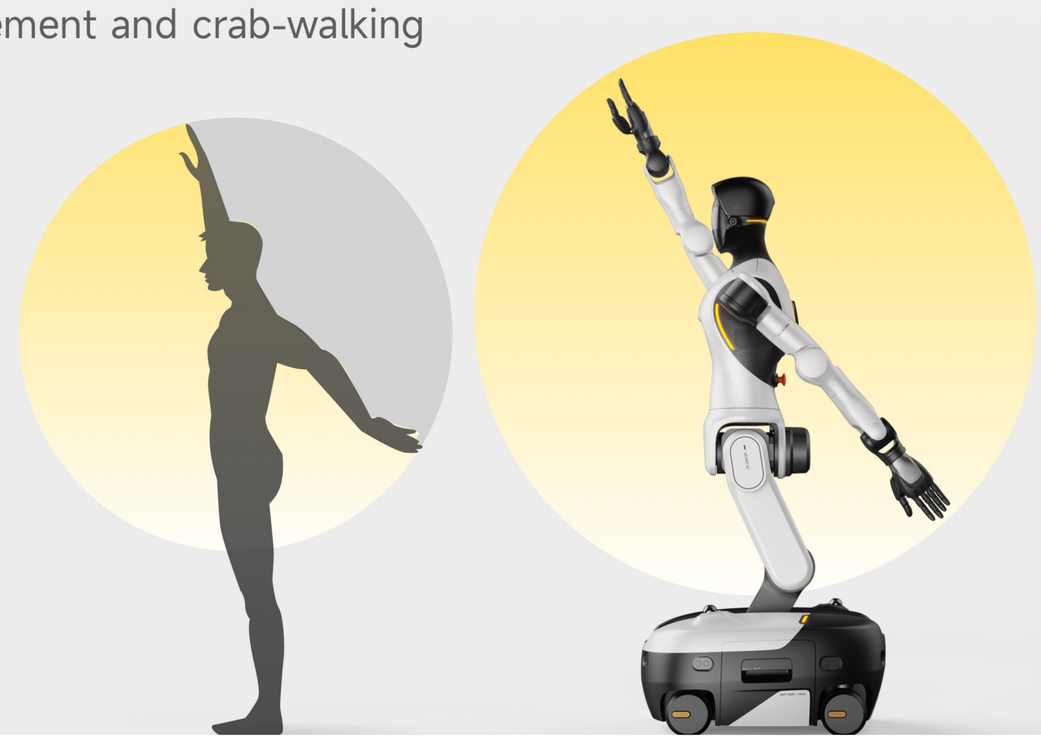
The industrial–grade interactive embodied robot, with sub–millimeter precision dual arms, revolutionizes precision assembly and complex tasks.
AGIBOT G2 brings intelligent, flexible, and reliable future technology, injecting new possibilities for humanoid robot collaboration across industries.

Advanced Precision Performance

- 100% automotive-grade components for unwavering reliability
- Dual-arm force control precision ≤0.5N, achieving sub-millimeter accuracy
- Powered by NVIDIA Jetson Thor T5000 chip with a computing power of up to 2070 TFLOPS.

Expanded Operational Workspace

- 26-DOF body for human-like motion
- 5-DOF waist-leg system for fluid movement even in tight spaces
- 4-wheel steer enables in-place rotatioin, omnidirectional movement and crab-walking



Multi-Modal Smart Interaction

- Continuous multi-speaker dialogue and knowledge base Q&A
- 1:1 human-like motion

Real-Time Teleoperation

- Ultra-low latency for beyond- visual-line-of-sight control
- Binocular stereo vision enables intuitive teleoperation
- One operator managing multiple robots via time-sharing

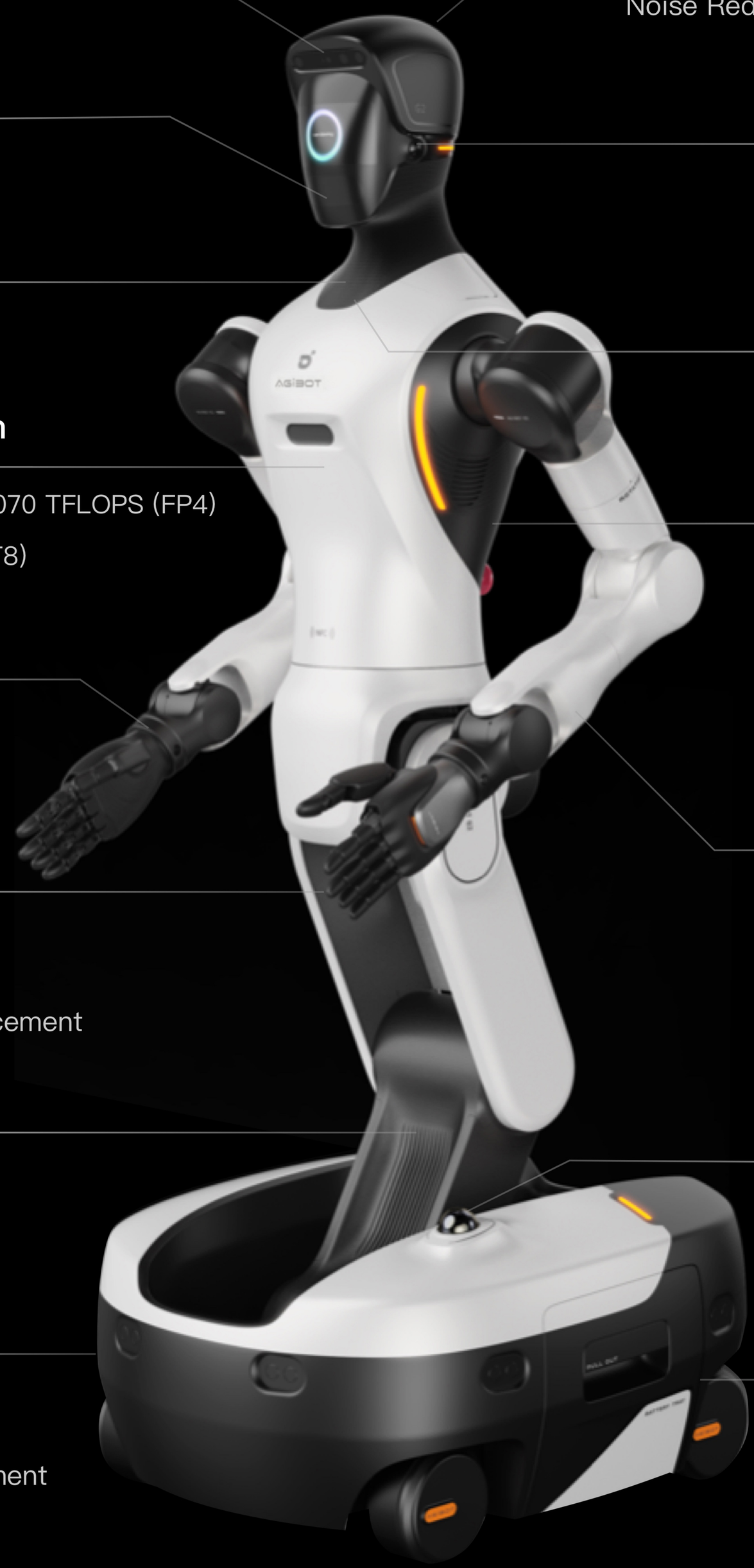
Safety Assurance

- 360° surround view and high-precision arm collision detection
- Hybrid active-passive system ensures personnel safety

Long-Lasting Power

- Hot-swappable dual batteries for 24/7 continuous operation
- Autonomous return-to-charge, rapid "full-power" recovery

AGIBOT G2 Product Specifications



RGB-D Camera

- Depth Perception

Stereo Camera

- Depth Video Capture

Neck

- Roll, Pitch, Yaw

Computing Platform

- NVIDIA Jetson T5000 2070 TFLOPS (FP4)
- HUIXI R1 500 TOPS (INT8)

Wrist RGB-D

- Depth Perception

Dexterous Hand (Optional)

- Up to 19 Active DOF
- 3D Tactile Sensing
- Supports Quick Replacement

Waist & Legs

- Waist Joint *3
- Leg Joint *2

Chassis

- Speed: 1.5 m/s
- In-place rotation, omnidirectional movement

Microphone Array

- Sound Source Localization
- Noise Reduction & Echo Cancellation

Fisheye Camera Array

- 360° Surround View

Speaker

- 8W

Network Port

- 10G

7-DOF Arm

- 5kg Payload
- Full Joint Torque Sensing

Lidar*2

- 360° Coverage

Battery*2

- Hot-Swappable
- Automatic Recharging

1. Schematic for reference only, actual product may vary.
2. End-effectors (e.g., 012 Dexterous Hand, OmniPicker) are optional extras.

Developer-Friendly Ecosystem

Genie RL Toolkit

Rapid deployment and model switching with minimal demonstration

GDK (Genie Development Kit)

A development toolkit enabling rapid development, deployment, and optimization of Agibot robotic applications and functionalities

AGIBOT WORLD

Million-scale real-machine open source dataset

GENIE OPERATOR-1

An innovative generalist embodied foundation model

Genie Envisioner

A unified world foundation platform for robotic manipulation

Applications

High Precision Assembly & Operaion

Industrial Inspection

Logistics Sorting

Security Check

Guided Tours

Research & Development

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