

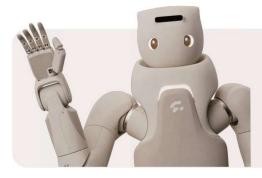
FOURIER GR-3

A Caring and Capable Companion



GR-3 Series Humaniod Robot

The GR-3 Series marks Fourier's third generation in humanoid robotics. Guided by the philosophy "Love, above all functionality," GR-3 redefines how humans interact with robots. The series combines a powerful technical foundation with a presence that feels more human. The lineup features GR-3 for interactive service and GR-3C for functional performance.



GR-3 "Meow-bot"

GR-3 is Fourier's first full-size "Care-bot" designed for wellness companionship. Beyond functionality, it is designed to foster emotional connection — introducing a new class of Al robots for human-centered scenarios.

GR-3C "Cosmo"

GR-3C builds on the standard model with an LED ring-head display and reinforced shell, supporting precise operation in complex environments. Its all-white finish and head design evoke an "astronaut" look, while the durable, easy-to-maintain outer shell ensures long-term reliability.



Groundbreaking Concept Innovation

Fourier has long been guided by a human-centered approach, designing robots to serve people first. Beyond pure functionality, we add the element of companionship. Human-robot interaction should surpass a simple user-tool relationship, but be both useful and full of care.

Social Companion

GR-3 is designed to engage with people in public settings. It can act as a service assistant, a comforting presence for children, or a responsive companion for the seniors.



Assistive Companion

GR-3C is expected to expand into assistive practices. Potential applications include research, high-risk operations, and rehab training, bringing support to both work and daily life.



Solid and Robust Performance Base

The GR-3 Series builds on two generations of innovation. It features advanced motion control, whole-body teleoperation, and a modular design that integrates sensors and computing units with ease, delivering both precision and reliability for real-world tasks.

Equipped with Fourier's high-performance actuators and multi-DoF dexterous hands, GR-3 handles complex operations with stability and accuracy. Its refined structure is lighter, more compact, and energy-efficient. Dual hot-swappable batteries keep the robot running around the clock, with faster charging and fewer swaps, ensuring uninterrupted performance.

Soft Design, Smart Technology

Beyond emotional intelligence, GR-3 features enhanced hardware and character-rich locomotion—enabling more intuitive and lifelike interactions at every touchpoint.

Drawing on training data and market feedback from its predecessors, the robots' whole-body structure has been redesigned for greater flexibility and a more compact form. It features Fourier's high-performance actuators and multi-DoF dexterous hands, supporting a wide range of tasks from interaction and navigation to practical assistance.



The GR-3 Series can also support customizable features, including a lifelike standby mode. For further advanced configurations, please contact our sales team.

Advanced Feature: Whole-Body Teleoperation

The GR-3 Series supports whole-body teleoperation, enabling real-time mapping of human movements through high-precision motion capture and low-latency transmission.

By extending human reach beyond physical limits, it delivers a new level of interaction and collaboration across diverse scenarios.



Adaptive Framework, Faster Integration

Fourier prioritizes user experience. Based on feedback from previous generations, the GR-3 Series features an upgraded backend UI/UX and supports algorithm development on a client-server architecture.

Built as an embodied intelligence platform, GR-3 supports a wide range of algorithms and third-party applications. Its client-server architecture allows researchers, automation engineers and Al developers to get started quickly and tailor functions for real-world use.







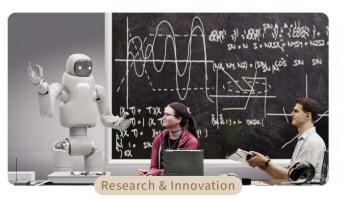
Real-World Applications

GR-3 Series marks a new phase in Fourier's pursuit of human-robot integration.

It's built to support meaningful interaction across diverse real-world settings, from public services and academic research to clinical use and, eventually, personal spaces. Designed to operate alongside people, the robot adapts to evolving needs and complex environments.





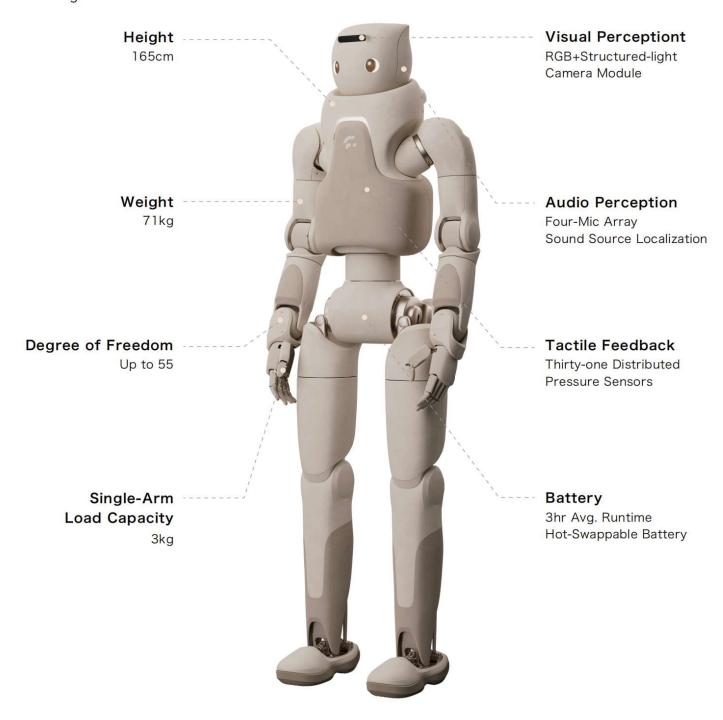




GR-3: A Softer Presence of Intelligent Agents

Breaking away from traditional metallic hardware, GR-3 features an innovative soft-shell design. Its exterior pairs premium automotive-grade upholstery with environmentally friendly foam padding, striking a balance between flexibility and structural support.

The carefully treated surface maintains industrial-grade durability while delivering a more approachable look and user-friendly engagement, making GR-3 both highly functional and inviting.



Fourier GR-3

A New Standard in Emotional Interaction

GR-3 features Fourier's proprietary Multimodal Interaction System, integrating vision, audio, and tactile feedback into a unified real-time emotional processing engine.

The dual-path response architecture supports both rapid reflexive actions via rule-based control and deep contextual understanding powered by a large language model for complex, situational dialogue generation.





Visual Recognition

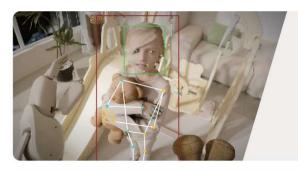


Tactile Feedback



Innovative, Reliable, Accessible

Powered by an advanced attention management system, the robot dynamically prioritizes sensory inputs and synchronizes multimodal outputs to deliver smooth, humanlike responses.



Visual Recognition

The robot's RGB and structured-light camera module provides reliable facial recognition and dynamic tracking, keeping users within GR-3's expressive visual field.

Audio Perception

A four-mic array enables omnidirectional voice activation, echo cancellation, and precise sound source localization. GR-3 orients to speakers with synchronized eye contact, enhancing natural vocal interaction.



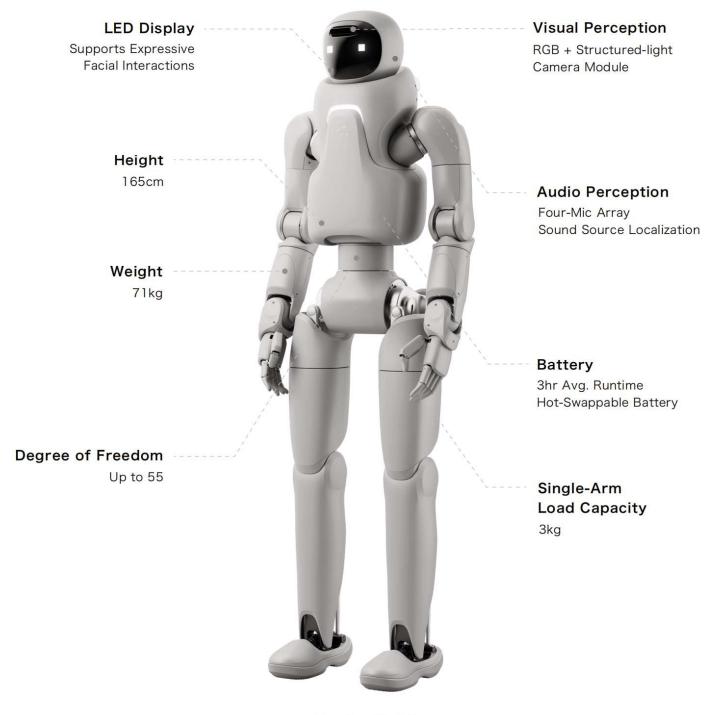
Tactile Feedback

Thirty-one distributed pressure sensors enable real-time touch detection. Combined with animated micro-expressions, GR-3 responds to touch with lifelike social cues.

GR-3C: A Futuristic and Capable Assistant

The GR-3C offers additional options to meet diverse application needs. Users can select from a range of add-ons, such as vision modules and dexterous hands, providing reliable performance and easy adaptability

Its reinforced aluminum and engineering-plastic shell balances lightweight design with structural strength for durability and easy maintenance. The LED ring-screen head enables expressive facial interactions and extended displays, enhancing human-robot collaboration.



Fourier GR-3C

General Technical Specifications

Height, Length, Width 1642mm x 552mm x 292mm Mechanical Weight ≈ 71kg Lower-Limb 425mm + 408mm Spec. Arm Reach 1395mm Arm Reach + Hand Up to 1795mm No. of Actuators Up to 55 (12-DoF Dexterous Hand Version) 6 Head 2 Leg 7 Arm Waist 3 Joint Spec. Enhanced Basic Dexterous Hand 6 12 * Dexterous Hand Max. Peak Torque 440N.m Dual encoders Support Ethernet Communication Protocol Electronic Supply Voltage 46.8V Rated Voltage ≈ 936W Spec. ≥ 6km/h Single-Arm Payload Walking Speed ≈ 3kg Performace Standard Computing Power 8-Core High Performance CPU High-Performance Jetson AGX Orin/Thor * Computing Power **Battery Capacity** Dual Battery 702Wh + 234Wh Battery Type Lithium-Ion Battery **Total Weight** 3.8kg + 1.3kgCharging Voltage Limit 54.6V Nominal Voltage 46.8V Average Runtime ≈ 3h Life Cycle ≥ 500 (80%DoD) Battery Charging Time ≈ 1.5h Hot-Swappable Support Adapter Input Parameters 90 ~ 260VAC, 50/60Hz Adapter Output Parameters 54.6V, 12A MAX Operating System Ubuntu 22.04 Processor AMD Ryzen Central Processing Unit I/O Ports Type-C、USB3.0、RJ45

^{*}Optional extensions available. Please contact sales for more information.

Configurable Specifications



Model			Fourier GR-3	Fourier GR-3C
Sensor Spec.	Camera	RGB + Structured-light Camera Module *	0	•
	IMU	6-Axis (Supports Acceleration and Angular Velocity Sensing)	•	•
	Screen	LED Display Facial Expression Supported	•	•
	Microphone	4-Mic Array	•	•
	Speaker	15W	•	•
	Tactile Sensor	Head	•	
		Torso	•	
		Hand (12-DoF Dexterous Hand)	•	•
Material	Struture	Aluminium Alloy + Engineering Plastic	•	
	Surface	Alcantara	•	
	Stuffing	Foamed Material	•	
Interaction Capabilities	Tele- operation	Real-time Remote Control Systems	•	•
	Voice Interaction	Echo Elimination	•	•
		Sound Source Locolization	•	•
		LLM	•	•
	Visual Perception	Visual Recognition	•	
		Visual Tracking	•	•
	Tactile Feedback (Head + Torso)		•	
	Communication Light		•	
	Standby Mode		•	

^{*}Optional extensions available. Please contact sales for more information.