magiclab

MagicBot Gen1

Full-Scale Bipedal Humanoid Robot

Product Specification Document

Before using the robot, please read this Specification Document thoroughly

MagicBot Gen1 Universal Humanoid Robot is Magiclab's first full-scale bipedal humanoid robot. Featuring a bionic design with exceptional motion control and AI capabilities, it delivers efficient and stable performance across diverse scenarios. Suitable for scientific research, education, data collection, and industrial manufacturing, it offers multiple functions including guided tours, facial recognition, and more.

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Document Guide 1
Product Introduction 2
Version 3
1. Product Overview 4
    1.1 Function Overview 4
    1.2 Product Schematic Diagram 5
    1.3 Technical Specifications 6
2. Interactive System 8
    2.1 Depth Camera 8
    2.2 LiDAR 9
    2.3 Fisheye Camera 9
    2.4 High-Definition Interactive Screen 10
    2.5 Voice Interaction 10
3. Computing System 11
    3.1 Motion Control System 11
    3.2 AI Perception System 12
4. Joint Range of Motion 13
    4.1 Joint Numbering 13
    1. Joint Limits and Parameters 14
    2. Robotic Arm Specifications 15
5. Dexterous Hand 17
    5.1 Technical Specifications 18
    5.2 Joint Limits 19
6. Name of Hazardous Substances in the Product 21

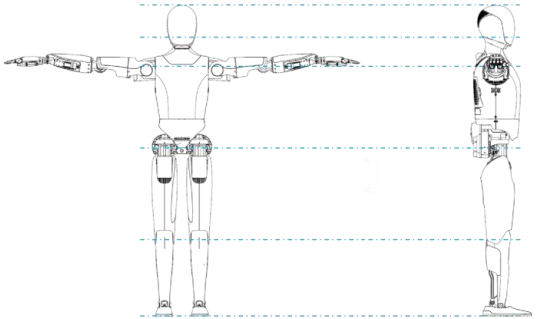
7. Safety and Legal Information 22
7.1 Disclaimer 22
7.2 Safety Instructions 25
8. Maintenance and Care 27
8.1 Post-Use Maintenance 27
8.2 Robot Maintenance and Servicing 27
8.3 Battery Maintenance and Care 29
9. Help 30
10. Media 31
11. Warranty Service 31

Document Guide

Name	MagicBot Gen1 Full-Size Bipedal Humanoid Robot Product Specification Document
Type	Product Specification Document
Scope	MagicBot Gen1 Full-Size Bipedal Humanoid Robot and Its Supporting Components; MagicHand S01 independently developed five-finger dexterous hand;
Note	1. This user manual is applicable only to products within the <Scope>; it is not applicable to other products. 2. This manual will be updated in real time as the product evolves. Significant updates will be noted in the <Document Version> section. 3. Please strictly follow the operating procedures outlined in the user manual. If any item is unclear, promptly contact after-sales service personnel. Do not disassemble the unit yourself. 4. Magiclab reserves the right of final interpretation of this manual..

Product Introduction

MagicBot Gen1 is the first full-size humanoid robot launched by Magiclab, codenamed “Xiaomai.” It can run at speeds up to 2m/s, featuring a lightweight Al alloy main body structure with PC+ABS exterior components, weighing approximately 70kg. Equipped with a dexterous hand, the entire robot boasts 52 DOF, enabling precise motion and posture control. It integrates a perception system combining LiDAR, multiple RGB-D, and cameras, providing the robot with exceptional visual perception capabilities.



Version

Version ID	Changes	Change Details	Time
V1.0	Current Version	Overall Content Completion	2025/12/24

1. Product Overview

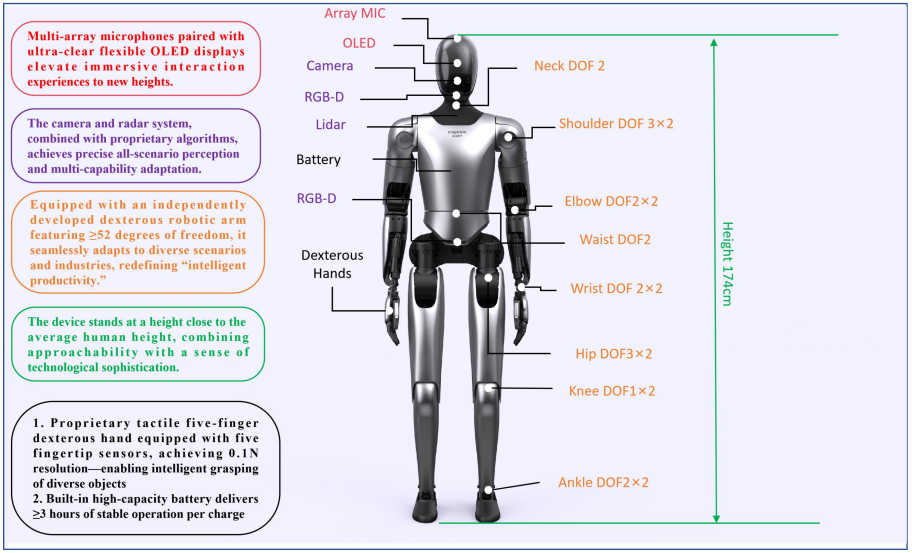
1.1 Function Overview

MagicBot Gen1 features the following product capabilities (*Actual specifications subject to physical product and contractual deliverables)

Function Name	Supported Status	Function Name	Supported Status
All-Terrain Mobility	Support	Autonomous Navigation	Support
Offline Voice Interaction	Support	Autonomous Obstacle Avoidance	Supports (automatically activates during task execution)
Online Voice Interaction	Supported	Map Construction	Supports: Cart-based Mapping; Joystick-based Mapping
Visual Interaction	Facial Recognition (Basic Capabilities: 5, Expandable)	Map Management	Support: Local Management
Facial Expression Interaction	Supports: Synchronous high-definition OLED flexible display	Remote OTA	Support
Touch Interaction	Not supported	Secondary Development	Support
Light Indicator	Supports: Head LED Light Strips ×2	VR Teleoperation	Supports: PICO VR
Task Mode	Supports: Guided tour tasks; factory material handling tasks	Alarm Function	Support: Fault Detection and Alarm

[Note] More features coming soon—stay tuned!

1.2 Product Schematic Diagram



1.3 Technical Specifications

Standing Dimensions (Height × Width × Depth)	174×58×28 cm	Joint	Total Degrees of Freedom	≥52(including passive degrees of freedom)
Single Arm Span (Including Dexterous Hand)	80 cm (from shoulder joint to fingertip)		Neck Degrees of Freedom	2 units
Single Leg Length	95 cm (from the center of one leg joint to the sole of the foot)		Degrees of Freedom of a Single Arm	7 Degrees of Freedom
Thigh Length	Approximately 51 cm		Single Leg Degrees of Freedom	6 units
Lower Leg Length	Approximately 45 cm		Waist Degrees of Freedom	2 units
Body Weight (Excluding Battery)	Approximately 62.5 kg		Degrees of Freedom of a Single Hand	11 (including passive degrees of freedom, optional)
Battery Weight	Approximately 7.5 kg		Encoder	Dual Encoder
Overall Machine Materials	Aluminum Alloy (Structural Components) + Engineering Plastic (Exterior Components)		Maximum Joint Torque	1.350 N·m continuous operation ≥ 5 s 2.Peak torque ≥ 450 N·m
Cooling Method	Air Cooling		Types of Gear Reducers	Planetary + Harmonic
Single Arm Rated Load	Approximately 5 kg		Peak Torque Density	≥194 N·m/kg
Single Arm Maximum Load Capacity	Approximately 7.5 kg		Type of Drive Source	Permanent Magnet Synchronous Motor
Motion Speed	≥2 m/s		Communication Method	EtherCAT (communication frequency ≥ 1 kHz)
Basic Computing Power	8-core high-performance CPU	Energy	Power Supply Method	Built-in Single Battery
Perception Computing P	NVIDIA Jetson Orin NX 8GB		Battery Type	High-capacity lithium batte

ower				ry
Expanded Computing Power	Optional configuration: ≥100 TOPS computing power or other equivalent computing power modules		Charging Voltage Limit	62.25 V
Camera Configuration	3 Fisheye Cameras; 2 RGB-D Cameras		Rated Voltage	54V
Radar Configuration	32-line 360° LiDAR		Maximum Voltage	62.25 V
Pose Sensor	High-Precision IMU Sensor (6-Axis)		Battery Capacity	25Ah (1.35 kWh)
Six-Dimensional Force Sensor	Optional Support (Wrist)		Standby Endurance While Standing	≥5h (SOC: 100%~20%)
Wrist Camera	Optional Support Available		Operating Endurance	≥3 hours (continuous operation)
Voice Interaction	Multi-array Microphone + Speaker		Charging Time	Approximately 2.5 hours (State of Charge: 20% to 100%)
Visual Interaction	High-definition Flexible OLED Facial Interaction Screen	Control	Wireless Remote Controller	Support
WiFi 6	Support		Terminal (iOS)	Support
5G Module	Support		Terminal (Android)	Support
Bluetooth 5.2	Support		VR Teleoperation	Supports (PICO)

2. Interactive System

2.1 Depth Camera

MagicBot Gen1 features RGB-D depth cameras at both the head (jaw area) and waist, enabling simultaneous capture of an object's color (RGB) and depth information (D) to provide the robot with rich three-dimensional data. By fusing color and depth maps, the robot can accurately analyze the structural layout of its surroundings and the shapes of objects, achieving multi-scenario recognition and obstacle avoidance capabilities.

Model Number	Intel RealSense D435		
Operating Environment	Indoor/Outdoor	Field of View	87°±33° × 58°±1° × 95°±3°
Minimum Depth Distance	~0.105 m	(Max) Depth Output Resolution	1280×720
(Maximum) Frame Rate	90	RGB Sensor Resolution	1920×1080
RGB Frame Rate	30	RGB Field of View (H×V×D)	69.4° × 42.5° × 77° (±3°)
Dimensional Parameters	90mm × 25mm × 25mm	System Interface	USB 3.0; Type-C
Depth Solution	Active Stereo Vision	Quantity (Position)	2 units (Face & Waist)

2.2 LiDAR

The MagicBot Gen1 is equipped with an advanced 3D LiDAR (Light Detection and Ranging) sensor, a technology that endows the robot with powerful environmental perception capabilities. The LiDAR emits laser pulses and measures the time it takes for the reflections to return, enabling precise mapping of the surrounding environment in three dimensions. This facilitates efficient obstacle avoidance and accurate navigation, ensuring the robot's safe and stable operation across various scenarios.

Model Number	Midway MID-360		
Laser Wavelength	905 nm	Range	40 m @ 10% reflectance; 70 m @ 80% reflectance
Near Blind Spot	0.1 m	Field of View	360° (horizontal) × (-7° to 52°) (vertical)
Point Cloud Output	200,000 points/second	Point Cloud Frame Rate	10 Hz (typical value)
Data Network Port	100BASE-TX Ethernet	Power Supply Voltage Range	9~27V DC
Number of Wires	32 lines	Quantity (Position)	1 unit (at the back of the neck)

2.3 Fisheye Camera

The MagicBot Gen1 is equipped with three high-definition wide-field fisheye cameras on its face, providing the robot with excellent environmental awareness and visual recognition capabilities.

Resolution	**2 million**	**Maximum Effective Pixels**	**1600×1200**
Frame Rate	30 FPS	Field of View (D×H×V)	(120° ± 3°) × (87° ± 3°) × (55° ± 3°)

2.4 High-Definition Interactive Screen

To enhance the robot's interactive capabilities, we have equipped the it's face with a high-definition flexible OLED screen, precisely displaying various images and logos, tailored to meet the intelligent interaction requirements of high-dynamic humanoid robots.

Screen Size	6.67''	Resolution	2400×1080
Screen Type	Flexible OLED	Screen Refresh Rate	60Hz

2.5 Voice Interaction

Magic Bot Gen1 is equipped with a multi-array MIC and high-definition speakers, enabling noise reduction for clear sound pickup and clear voice output, empowering smooth human-robot voice interaction.

Array MIC			
Number of Arrays	3 units	Dimensions	3.50 mm × 2.65 mm × 0.98 mm
Output Format	PDM	Quantity (Position)	1 Set (3 Arrays) (Head)
Speaker			
Output Power	5W (4Ω)	Number of Vibrating Basins	2 units
Sound Pressure Level	106±3 dB	Quantity (Position)	1 unit (Chest)

3. Computing System

MagicBot Gen1 is equipped with a computing module comprising a high-performance multi-core processor and dedicated AI computing units, enabling it to execute real-time tasks and computationally intensive AI operations. This supports real-time motion control for humanoid robots, multi-sensor environmental perception, and intelligent decision-making, ensuring stable system operation across diverse working conditions.

3.1 Motion Control System

The MagicBot Gen1 motion control system ("Cerebellum") utilizes an 8-core high-performance CPU. This chip employs the ARM architecture and integrates multiple high-performance processing units, primarily targeting applications in ARM PCs, edge computing, and other multimedia products.

Number of CPU Cores	8-core (4+4)	CPU Instruction Set Bit Width	64-bit
GPU	OpenGL ES; OpenCL	Neural Processing Unit (NPU)	~6 TOPS computing power
Video Decoding	Up to 8K at 60 FPS	Video Encoding	8K 30FPS
Memory	8GB	Hard Disk Storage	64GB

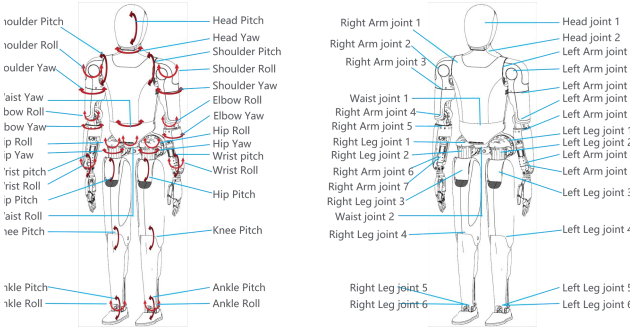
3.2 AI Perception System

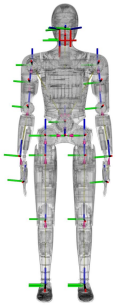
The MagicBot Gen1 is equipped with a built-in high-performance NVIDIA computing unit, providing powerful capabilities for robot perception, recognition, and large-scale model computation.

Model Number	NVIDIA Jetson Orin NX		
CPU	Arm® Cortex®-A78AE	Number of Cores	8 units
Number of Threads	8 units	Maximum Turbo Frequency	2 GHz
Video Memory	16GB	Memory	16GB
Cache	2MB L2 + 4MB L3	Hard Disk Storage	512GB
GPU	Equipped with a 1024-core NVIDIA Ampere architecture GPU featuring 32 Tensor Cores	Instruction Set	64-bit
OpenGL	4.6	OpenGL ES	3.2
Vulkan™	1.1	CUDA	11.4

4. Joint Range of Motion

4.1 Joint Numbering





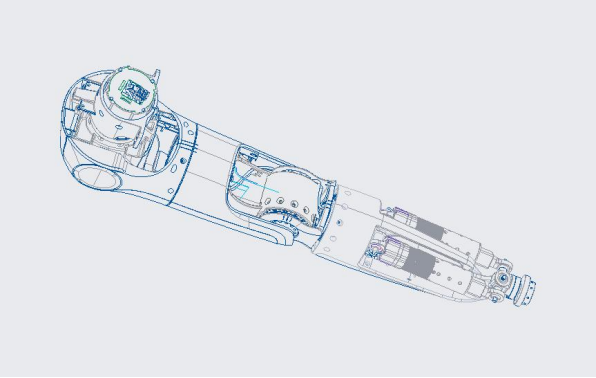
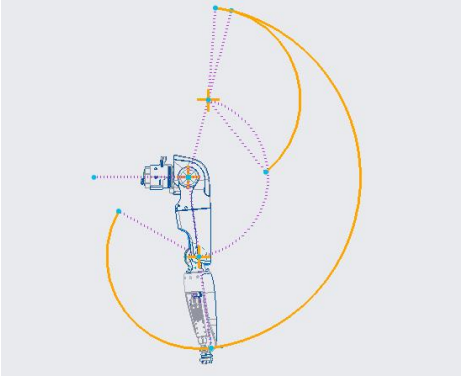
[Note] When all joints are at zero degrees, the coordinate systems are as shown in Figure 3 above. The x-axis is represented in red, the y-axis in green, and the z-axis in blue.

1. Joint Limits and Parameters

Associated Part	Joint Name	Range of Motion	Maximum Speed / rpm	Rated Torque / N·m	Peak Torque / N·m
Head	Head Rotation (Yaw)	±60°	100	20	60
	Head Pitch	±20°	100	20	60
Arm	Shoulder Pitch	±158°	30	30	66
	Shoulder Abduction (Roll)	-10~165°	30	30	66
	Shoulder Rotation (Yaw)	±150°	39	32.9	90
	Elbow Abduction (Roll)	-10~127°	39	32.9	90
	Elbow Rotation (Yaw)	±167°	39	32.9	90
	Wrist Pitch	±26°	116 mm/s (linear module)	300	750
	Wrist Abduction (Roll)	-63° to 49°	116 mm/s (linear module)	300	750
Waist	Waist Rotation (Yaw)	±90°	39	32.9	90
	Waist Lateral Swing (Roll)	±20°	39	32.9	90
Legs	Hip Joint Abduction (Roll)	-20° to +30°	120	93	375
	Hip Joint Rotation (Yaw)	-15° to +30°	120	20	60
	Hip Joint Pitch	-120° to 40°	120	93	375
	Knee Joint Pitch (Flexion/Extension)	0~+150°	120	120	375
	Ankle Joint Pitch (Dorsiflexion/Plantarflexion)	-75° to +30°	100	20	60
	Ankle Joint Lateral Flexion (Roll)	-20° to +20°	100	20	60

2. Robotic Arm Specifications

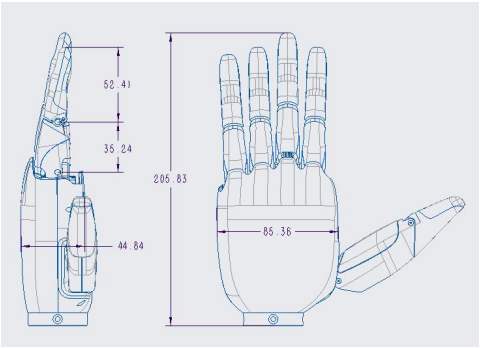
MagicBot Gen1 is equipped with a seven-degree-of-freedom (single-arm) robotic arm independently developed by Magic Atom. The wrist features an innovative dual linear module parallel drive structure, combining high torque and precision, capable of covering most operational scenarios.

Mechanical Arm Structural Diagram	Robotic Arm Range of Motion
	

Parameter Name	Detailed Specifications
Degrees of Freedom of a Single Arm	7 (Shoulder Joints × 3 + Elbow Joints × 2 + Wrist Joints × 2)
Single Arm Span (Including Dexterous Hand)	800mm (from shoulder joint center to fingertip)
Maximum Working Radius	785 mm
Single Arm Rated Load	5 kg
Single Arm Maximum Load	7.5 kg
End-Effector Repeatability Accuracy	＜1mm (measured under loads of 0.5kg/3kg/5kg/7.5kg)
Single Arm Stiffness	＞20000 N·m (measured under a 100 N load)

5. Dexterous Hand

For general operations, Magic Atom provides you with the self-developed five-finger dexterous hand, Magichand S01. This dexterous hand supports a payload of up to 5 kg at the wrist, meeting the application requirements across industrial, commercial, and household scenarios. Equipped with fingertip tactile sensors, it achieves a force resolution of up to 0.1 N, enabling more confident autonomous grasping and fine manipulation.

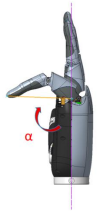
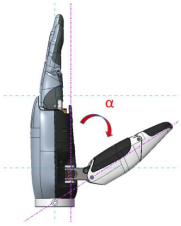


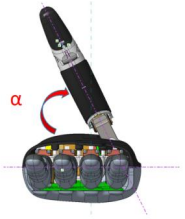
5.1 Technical Specifications

Magichand is a dexterous hand designed with integrated compact, high-torque linear servo actuators, featuring six linear servo motors. Built-in pressure sensors enable rapid and precise control of the dexterous hand. Inspired by human hand anatomy and practical grasping requirements, its overall design is sleek and aesthetically pleasing, closely mimicking the form of a human hand.

Mechanical	Expanded Dimensions (Length × Width × Thickness)	≥200×87×55 mm	Electrical	Operating Voltage	≥12V DC
	Single Hand Weight	≤650g		Static Current	≤0.1A @ 12V
	Index Finger (Single Hand)	5 Fingers		Maximum Current	≤3A @ 12V
Joint	Total Degrees of Freedom (Single Hand)	11 (including passive degrees of freedom)	Sensor	Sensor Type	Tactile Sensor
	Active Degrees of Freedom (Number of Motors)	6 units		Number of Sensors	5 (single hand)
	Drive Method	Hollow cup motor + reduction gearbox + T-shaped lead screw		Measurement Dimensions	Normal Force & Tangential Force
	Transmission Method	Linkage Transmission		Resolution	0.1 N
	Capable Actions	Pinch, grasp, press, lift, push, and other anthropomorphic actions		Range	0.1~10 N
Performance Specifications	Single Finger Grip Strength	2.5 kg		Sensor Locations	Fingertip
	Four-Finger Grip Strength	9.1 kg	Others	Communication Interface	RS485, EtherCAT
	Single-Hand Load	5 kg		SDK Languages	C++

5.2 Joint Limits

Little Finger Ring Finger Middle Finger Index Finger	+23° to 180°	
Thumb—Joint Flexion	-5° to 56.8°	

Thumb with two joint bends	-63.5° to 180°	

6. Name of Hazardous Substances in the Product

Component Name	Hazardous Materials					
	Pb	Hg	Cd	(Cr(VI))	PBB	PBDE
Circuit Board	×	○	○	○	○	○
Metal Plate	×	○	○	○	○	○
Housing	○	○	○	○	○	○

7. Safety and Legal Information

7.1 Disclaimer

To avoid illegal activities, potential harm, and losses, be sure to comply with the following regulations:

- Please be sure to carefully read this user manual before using the product to understand how to use it correctly, as well as to be informed of your legal rights, responsibilities, and safety instructions. Failure to do so may result in property damage, safety incidents, and personal injury risks. By using this product, you are deemed to have thoroughly read, understood, acknowledged, and accepted all terms and contents of this user manual. The user agrees to be responsible for their own actions and all consequences arising therefrom. The user also agrees to use this product solely for legitimate purposes and to comply with these terms, as well as any related policies or guidelines that Magiclab and its partners may establish.
- When using this product, you must comply with local laws and regulations, use it lawfully, and not use it to harm or intimidate others or animals, nor as a weapon or in conjunction with weapons. Any actions that violate local laws, regulations, or Magic Atom's sales terms will automatically void the product warranty and forfeit any entitlement to repair, update, or replacement services.

- To the maximum extent permitted by law, Magic Atom does not provide any express or implied warranties not expressly covered herein, including but not limited to warranties of fitness for a particular purpose or non-infringement, nor does it include any specific commercial or technical guarantees. Magic Atom and its partners do not guarantee that the products/services provided are completely free of defects, fully meet customer requirements, operate without any issues or interruptions, nor do they guarantee that Magic Atom and its partners can fully rectify such defects.
- Under no circumstances shall Magic Atom be legally liable for any direct or indirect economic losses of customers arising from this manual.
- The laws of certain countries may prohibit the exclusion of warranty provisions; therefore, your related rights may vary in different countries.
- To the maximum extent permitted by law, Magic Atom shall not be liable for any damages or hazards caused to you due to failure to use this product in accordance with this user manual, including but not limited to property loss, safety incidents, and personal safety risks. Magic Atom and its partners shall not be responsible for any indirect, consequential, punitive, incidental, special, or exemplary damages arising from the purchase, use, or inability to use this product, even if Magic Atom and its partners have been advised of the possibility of such damages.
- To the maximum extent permitted by law, Magiclab's total liability to you for any damages, losses, and claims (whether in contract or otherwise) shall not exceed the amount received by Magiclab from the sale of the product.
- To the maximum extent permitted by law, Magiclab shall not be liable for any damages arising from your failure to comply with all applicable export and re-export laws and regulations (including but not limited to all export and re-export laws and regulations of China, the United States,

and other countries and regions applicable to this product, technology, and documentation provided herewith). Magiclab shall also not be liable for your failure to comply with the aforementioned export and re-export laws and regulations (or any licenses or orders issued thereunder) in the use, distribution, transfer, or transmission of the products, software, or technical information under this agreement (including when incorporated into other products). Upon Magiclab's request, you agree to execute all necessary export-related documents to comply with the requirements of the aforementioned export and re-export laws and regulations.

- Purchased components are not covered within the scope of services included in this user manual.
- This user manual has been compiled to include introductions to various functions and usage instructions as comprehensively as possible. However, due to continuous product enhancements and design changes, there may still be discrepancies between this manual and the product you have purchased.
- This user manual will be updated periodically. The latest version will include the most recent content and images without prior notice.
- This user manual may differ from the actual product in terms of color, appearance, and other aspects. Please refer to the actual product.
- Magic Atom holds the final interpretation rights of the above terms and complies with relevant laws and regulations. Magic Atom reserves the right to update, modify, or terminate these terms without prior notice.

7.2 Safety Instructions

When using the robot, please strictly adhere to the following requirements to avoid causing danger:

- Do not place the MagicBot Gen1 in high-temperature environments, including but not limited to open flames, electric heaters, radiators, or direct sunlight, to prevent risks such as fire or electric leakage.
- Do not disassemble, repair, or modify the robot's hardware or software on your own.
- Do not squeeze, deform, bend, drop, incinerate, or heat the robot.
- Do not expose the robot to moisture. The operating humidity range for MagicBot Gen1 is 20% to 80%.
- Do not place the robot in environments with excessive dust, sand, or other particulates.
- Do not allow children under 14 years old to approach MagicBot Gen1 without the supervision of a guardian.
- Do not shake the MagicBot Gen1, as it may fall over and cause injury.
- Do not use optical devices to view the LiDAR of MagicBot Gen1.
- Please keep the surfaces of the MagicBot Gen1's LiDAR, cameras, and sensors clean to prevent dust from causing the MagicBot Gen1 to malfunction.
- Do not allow conductive objects (such as pencil lead or metal sheets) to come into contact with MagicBot Gen1 to prevent fire or short

circuits.

- Please use the MagicBot Gen1 dedicated charging adapter only. Do not use other charging adapters with similar connectors.
- Please refer to the MagicBot Gen1 sensor range diagram and place objects beside it to prevent the robot from tripping due to sensor blind spots.
- Please do not obstruct the sensors of MagicBot Gen1, including the camera, LiDAR, and ultrasonic radar.
- Do not cover the head or neck of MagicBot Gen1, nor dress its body in clothing or cover any accessories/obstructions, to prevent overheating, sensor malfunction, or joint movement failure.
- Do not lean on the MagicBot Gen1.
- If the MagicBot Gen1 emits abnormal noises, odors, or smoke, please immediately press the power button to shut down the robot, then unplug the power supply and contact the technical support center.
- Do not bend or pull the fingers or palm of the MagicBot Gen1 to avoid joint malfunction.

8. Maintenance and Care

8.1 Post-Use Maintenance

- Please bring the robot to a relatively flat surface and wait until the robot's movements have completely stopped and stabilized before performing the shutdown operation.
- Under no circumstances should excessive force be applied to the robot's joints, nor should any destructive actions such as scratching any parts of the robot with sharp objects be performed.
- Please use the original charger for charging to avoid battery damage or fire hazards.

8.2 Robot Maintenance and Servicing

- Please inspect all parts of the robot to ensure they are in good condition. If you have any questions, please contact the after-sales team. Before performing maintenance or cleaning, ensure that the robot is powered off and the power adapter is disconnected.
- When replacing components, please use manufacturer-specified parts to avoid incompatibility that may cause damage to the robot.
- The robot's foot sole surface is a consumable part; severe wear, chipping, or detachment may result in unstable movement or standing.

- Please regularly clean the surface dust from the robot's cameras, sensors, and other components.
- Please regularly check the battery level and health status. When the battery life is significantly reduced, please contact customer service for a battery replacement.
- Please store the robot and power adapter in a cool, dry place.

8.3 Battery Maintenance and Care

- Do not store the battery in environments where the ambient temperature exceeds 45°C or falls below -10°C. Prolonged inactivity of the battery may adversely affect its performance.
- For long-term battery storage (over 3 months), it is recommended to store the battery in an environment with a temperature of 20℃ to 25℃ and a relative humidity of 20% to 50% RH.
- During battery storage, it is necessary to regularly check the battery charge level. If the battery charge falls below 20%, the battery must be recharged.
- It is recommended to recharge at least once every three months to maintain battery activity.
- The recommended charging temperature for the battery is 10°C to 25°C.
- After the battery undervoltage protection is triggered, it will no longer output externally and must be recharged before normal operation can be restored.
- Do not deeply discharge the battery to avoid permanent battery failure, which would prevent further charging.
- The battery will automatically stop charging when fully charged. It is recommended to disconnect the battery from the charging device once it is fully charged.

9. Help

If you encounter any issues or require assistance during use, you can contact us at any time through the following methods:

- Contact Number: 400-828-8022;
- Contact Email:
  - Official: contact@magiclab.top
  - Sales: bd@magiclab.top
  - After-sales service: sale-support@magiclab.top
- Official Website
  - Official Website: https://www.magiclab.top/
  - MagicBot Gen1 Official Website Introduction: https://www.magiclab.top/human
  - Document Center: https://support.magiclab.top/
  - Policy Terms: https://www.magiclab.top/policy

10. Media



WeChat Official Account



TikTok(China)



X



Blibli



Youtube

11. Warranty Service

At the time of product delivery, we will provide you with an electronic warranty card. The electronic warranty card holds the same validity as the paper warranty card. Please print it yourself if needed.