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Loona KY004LN01

Loona Pet Robot Dog User Manual

Model: KY004LN01 | Brand: Loona

INTRODUCTION TO LOONA

The Loona intelligent petbot is an advanced electronic companion designed to provide interactive and engaging experiences. Loona exhibits a wide range of expressions and pet-like behaviors, including autonomous movement and interaction with its environment and users. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Loona pet robot.

Loona is capable of understanding numerous instructions and providing diverse feedback. It supports interactive features such as ChatGPT games, role-playing, and language learning, making it a versatile and intelligent companion.



Figure 1: Loona Pet Robot Dog in its standard appearance.

KEY FEATURES

- **Intelligent and Interactive:** Loona is designed to be smart, intuitive, affectionate, and playful, offering a rich interactive experience.
- **Responsive Behavior:** Loona greets you upon arrival, follows you around, and expresses happiness when petted.
- **Autonomous Actions:** Loona can engage in self-entertainment, including sneezing, scratching, exploring its environment, and investigating objects. But she can also hit, dance and even take pictures.
- **Dynamic Movement:** Equipped with a high degree of freedom on each side, Loona can lift its feet and tilt its body, enabling lifelike movements.
- **Efficient Propulsion:** A Brushless DC motor allows Loona to move smoothly and quickly, reaching a maximum speed of 900 rpm.
- **Advanced Sensors:** Features include an HD RGB camera for environment perception and object recognition, a 3D ToF LiDAR sensor for obstacle avoidance and trajectory planning, touch sensors for reactive interaction, and a 4-

microphone array for sound localization and noise filtering.

- **Communication:** Loona can understand thousands of instructions and provide various interesting feedback, including support for ChatGPT games for diverse interactions.

SETUP GUIDE

Before using your Loona pet robot, please follow these steps to ensure proper setup and functionality.

1. **Unboxing:** Carefully remove Loona and all accessories from the packaging. Verify that all components, including the charging dock, Loona Ball, and Bull Fighting Cloth Kit (if included), are present.
2. **Initial Charge:** Place Loona on its charging dock. Ensure the auto-charging contacts align properly. The indicator lights on Loona will show charging status. A full charge is recommended before first use.
3. **App Download:** Download the official Loona application from your device's app store (iOS/Android). Search for "Loona Robot" or scan the QR code provided in the quick start guide.
4. **Pairing:** Open the Loona app and follow the on-screen instructions to pair your device with Loona via Bluetooth or Wi-Fi. Ensure Loona is powered on during this process.
5. **Software Update:** The app may prompt you to update Loona's firmware. It is highly recommended to perform these updates to ensure optimal performance and access to the latest features. Ensure Loona is on its charging dock during updates to prevent power interruption.

OPERATING INSTRUCTIONS

Loona is designed for intuitive interaction. Here are some common ways to operate and engage with your pet robot.

Basic Interactions

- **Petting:** Gently pet Loona's head or back. Loona will respond with happy expressions and sounds.
- **Voice Commands:** Loona responds to various voice commands. Begin by saying "Hey Loona" to activate its listening mode, then issue a command such as "Come here," "Follow me," or "Dance." Refer to the app for a full list of commands.
- **Movement:** Loona can navigate autonomously. It will explore its environment, avoid obstacles, and return to its charging dock when low on battery. You can also use the app for remote control (FPV control) to guide Loona manually.



Figure 2: Loona's expressive face, capable of displaying a wide range of emotions.



Figure 3: Loona engaging in playful interaction with an object.

Advanced Features

- **Face Recognition:** Loona can recognize familiar faces and react accordingly. Ensure good lighting for optimal performance.
- **Programming:** Utilize the Loona app's programming interface to create custom behaviors and routines for your robot. This feature allows for personalized interactions and learning.
- **ChatGPT Games:** Loona integrates with ChatGPT for enhanced conversational and interactive games. Access these features through the Loona app to engage in RPG games, role-plays, language learning, and more.
- **Remote Monitoring:** Loona can perform remote monitoring and FPV (First-Person View) control, allowing you to see through its camera and control its movements from a distance via the app.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Loona pet robot.

- **Cleaning:** Loona's exterior can be gently wiped with a dry, soft cloth. Avoid using harsh chemicals or abrasive materials. Do not submerge Loona in water. The manufacturer recommends dry cleaning only for material care.
- **Software Updates:** Regularly check the Loona app for available firmware updates. These updates often include performance improvements, bug fixes, and new features. Always ensure Loona is on its charging dock during updates.
- **Sensor Care:** Keep the camera lens, LiDAR sensor, and touch sensors clean and free from dust or obstructions to ensure accurate perception and interaction.

- **Battery Care:** For long-term storage, ensure Loona is charged to approximately 50% and powered off. Recharge periodically if stored for extended periods to maintain battery health.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Loona pet robot.

Problem	Possible Cause	Solution
Loona does not power on.	Low battery; power button not pressed correctly.	Place Loona on the charging dock for at least 30 minutes. Ensure the power button is pressed and held until Loona activates.
Loona is not responding to commands.	App not connected; microphone obstructed; poor lighting for visual commands.	Check app connection. Ensure Loona's microphones are clear. Move Loona to a well-lit area for visual interactions.
Loona is not moving smoothly or is stuck.	Obstruction in wheels; sensor blockage; uneven surface.	Check wheels for debris. Clean sensors. Operate Loona on a flat, clear surface.
App cannot connect to Loona.	Bluetooth/Wi-Fi off; Loona is off; app needs restart.	Ensure Bluetooth/Wi-Fi is enabled on your device. Verify Loona is powered on. Close and reopen the Loona app.
Loona's expressions seem off.	Software glitch; environmental factors.	Restart Loona. Check for and install any available software updates.

SPECIFICATIONS

Detailed technical specifications for the Loona Pet Robot Dog.

Attribute	Detail
Model Number	KY004LN01
Product Dimensions	8.3 x 6.8 x 6.8 cm
Weight	2.7 kg
Color	Silver-white
Material Type	High-quality silicone material
Material Care Instructions	Dry Clean Only
Educational Objective(s)	Interactive, Programmable
Assembly Required	No
Batteries Required	No (internal rechargeable battery)

Attribute	Detail
Manufacturer Recommended Age	3 years and up
First Available Date	December 8, 2023
Manufacturer	keyirobot

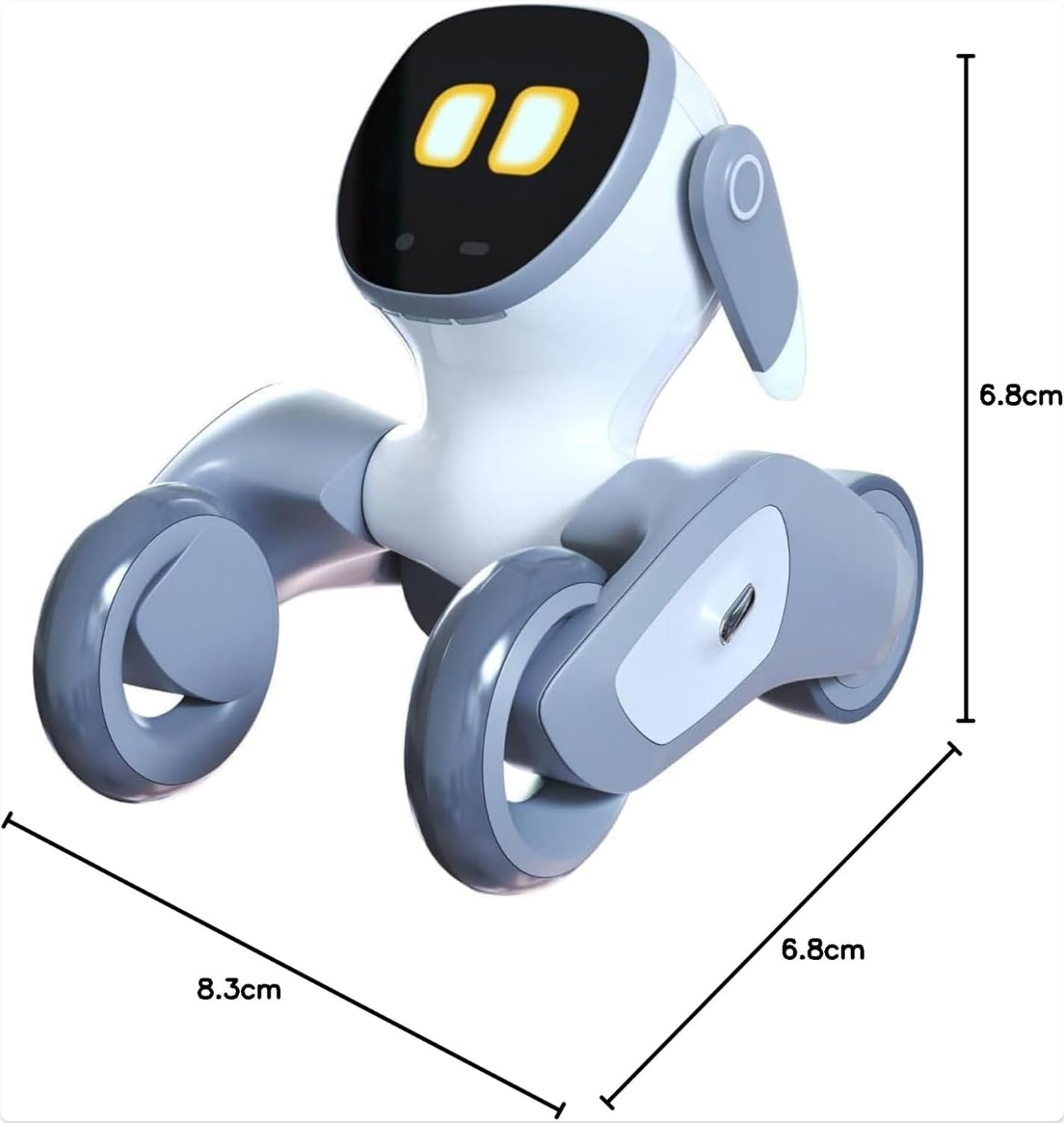


Figure 4: Loona’s physical dimensions.

Tech Behind Loona

LCD screen

HD RGB camera

Perceive the environment, recognize the family, gestures and objects.

3D ToF LiDAR sensor

Dynamically avoid obstacles and plan her own trajectory.

Auto-charging contacts

Touch sensors

Sense your touch and react accordingly.

4-Microphone array

Locate where you are, filter out the noise and recognize natural language.

Speaker

USB-C port

Brushless DC motor

Move fast and smoother.

Figure 5: Internal technology and sensors of Loona.

SAFETY INFORMATION


Please read and adhere to the following safety guidelines for safe operation of your Loona pet robot.

- **Age Restriction:** Loona is not suitable for children under 3 years of age due to potential small parts or operational characteristics.
- **Supervision:** Adult supervision is recommended for younger users to ensure safe and appropriate interaction with Loona.
- **Environment:** Operate Loona on flat, stable surfaces. Avoid stairs, uneven terrain, or areas where Loona could fall or become damaged. Keep Loona away from water or other liquids.
- **Handling:** Do not attempt to force Loona's movements or manipulate its joints manually, as this may cause damage.
- **Modifications:** Do not attempt to disassemble, modify, or repair Loona yourself. Unauthorized modifications can void the warranty and pose safety risks.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Loona website or contact the manufacturer directly. Keep your proof of purchase for warranty claims.

Manufacturer: keyirobot

	<p>Loona Smart Robot Toy: Quick Start Guide and Features</p> <p>A comprehensive guide to the Loona smart robot toy, covering setup, features like voice recognition and remote control, technical specifications, maintenance, safety guidelines, and regulatory compliance.</p>
	<p>Loona Blue Robot User Manual</p> <p>User manual for the Loona Blue robot, covering setup, features, maintenance, and troubleshooting. Learn how to connect to Wi-Fi, charge the device, and utilize its AI recognition and remote control capabilities.</p>
	<p>Loona Smart Toy User Manual: Features, Setup, and Safety</p> <p>Comprehensive user manual for the Loona smart toy, covering setup, specifications, features like voice recognition and remote control, safety guidelines, and regulatory information. Learn how to get the most out of your Loona PETBOT.</p>
	

[Keyi Loona Quick Start Guide: Voice Commands, Modes, and Games](#)

This quick start guide for the Keyi Loona robot explains how to use voice commands, navigate modes like Auto Pilot, Face, and Follow, and play various interactive games.



Über Loona Sprachsteuerung

Entdecken Sie die Vorteile der Sprachsteuerung mit Loona. Wie funktioniert die Sprachsteuerung? Wie wird die Sprachsteuerung mit Loona integriert? Wie wird die Sprachsteuerung mit Loona integriert?



Wie wird die Sprachsteuerung mit Loona integriert?

Wie wird die Sprachsteuerung mit Loona integriert?

[Loona AI Robot: Understanding and Troubleshooting Speech Recognition](#)

A guide to Loona's speech recognition system, explaining its integration with Amazon Lex, how to issue commands, and troubleshooting common issues such as command misunderstanding, network errors, and timeouts. Includes solutions for connectivity and recognition problems.

3D-ToF und Hindernisvermeidung

Wie wird die 3D-ToF-Sensor-Technologie eingesetzt?

Wie wird die 3D-ToF-Sensor-Technologie eingesetzt?



Wie wird die 3D-ToF-Sensor-Technologie eingesetzt?

Wie wird die 3D-ToF-Sensor-Technologie eingesetzt?

[Loona 3D-ToF Sensor und Hindernisvermeidung: Funktionsweise und Einschränkungen](#)

Erfahren Sie, wie der 3D-ToF-Lasersensor von Loona Hindernisse erkennt, welche Einschränkungen er hat und wie Sie die Leistung optimieren können.