

Xiaomi BHR5988EU

Xiaomi Robot Vacuum S12 EU User Manual

Model: BHR5988EU

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Xiaomi Robot Vacuum S12 EU. Please read this manual thoroughly before using the product and retain it for future reference.

The Xiaomi Robot Vacuum S12 EU is designed to provide automated cleaning for your home, featuring both vacuuming and mopping capabilities. It utilizes advanced navigation technology for precise mapping and efficient cleaning paths.



Figure 1.1: Xiaomi Robot Vacuum S12 EU. This image shows the top view of the robot vacuum cleaner, highlighting its compact, circular design.

2. SETUP

2.1 Unboxing and Component Check

Carefully remove all components from the packaging. Ensure all items listed in the packing list are present. The package typically includes the robot vacuum, charging dock, power adapter, side brush, main brush, dustbin, water tank, and cleaning tool.

2.2 Charging the Robot

Place the charging dock against a wall in an open area with good Wi-Fi signal. Connect the power adapter to the dock and plug it into a power outlet. Place the robot onto the charging dock, ensuring the charging contacts align. The robot will begin charging automatically. Fully charge the robot before first use.

2.3 App Installation and Connection

1. Download the **Xiaomi Home** app from your device's app store.
2. Open the app and create an account or log in.
3. Tap the '+' icon to add a new device. Select the Xiaomi Robot Vacuum S12 EU from the list.
4. Follow the on-screen instructions to connect the robot to your home Wi-Fi network.



Navigazione laser LDS

Mappatura rapida e precisa



Potente ventola di aspirazione da 4000 Pa

Aspirazione di tutti i tipi di sporcizia



Percorsi di pulizia a zig-zag e a Y

Efficienza di pulizia significativamente migliorata



Numerosi sensori

Riconoscimento di ambienti complessi



Serbatoio dell'acqua intelligente

Protezione dei pavimenti dai danni causati dall'acqua



Collegamento all'app Xiaomi Home

Personalizzazione della modalità di pulizia

Figure 2.1: Robot Vacuum S12 EU with the Xiaomi Home app interface. The image illustrates the robot's laser navigation and mopping capabilities, controlled via the mobile application.

2.4 Initial Mapping

After successful connection, initiate the first cleaning cycle. The robot will perform a comprehensive scan of your home using its LDS laser navigation system to create an accurate map. This map will be displayed in the Xiaomi Home app and is crucial for efficient cleaning and smart features.



Figure 2.2: Intelligent mapping and navigation of the Xiaomi Robot Vacuum S12 EU. This image shows the robot creating a detailed map of a room layout, demonstrating its ability to navigate complex environments.

3. OPERATING

3.1 Cleaning Modes

The robot vacuum offers multiple cleaning modes to suit different needs, adjustable via the Xiaomi Home app:

- **Silent Mode:** For quiet operation and light cleaning.
- **Standard Mode:** Balanced cleaning for daily use.
- **Media Mode:** Increased suction for moderate dirt.
- **Turbo Mode:** Maximum suction power for deep cleaning of stubborn dirt.



Figure 3.1: Illustration of the different suction modes available on the Xiaomi Robot Vacuum S12 EU. The image visually represents the varying levels of cleaning intensity from Silent to Turbo mode.

3.2 Scheduling and Zone Cleaning

Use the Xiaomi Home app to set cleaning schedules for specific times and days. You can also define specific zones or rooms on the map for targeted cleaning, allowing the robot to clean only selected

areas.

3.3 Mopping Function

To use the mopping function, fill the intelligent water tank with clean water and attach the mopping pad. The intelligent water tank releases water uniformly to ensure consistent humidity without over-wetting the floor. Three different water settings are available for various floor materials.



Figure 3.2: The intelligent water tank feature of the Xiaomi Robot Vacuum S12 EU. This image shows multiple robot vacuums on different floor types, illustrating the consistent and controlled water release for mopping.

3.4 Navigation and Cleaning Paths

The robot uses LDS laser navigation for precise positioning and accurate distance measurements, enabling it to create a detailed map of your home. It employs zig-zag and Y-shaped cleaning paths to ensure comprehensive coverage and simulate manual cleaning for effective stain removal.

Intelligente

Mappatura di precisione
Pianificazione completa della casa

Navigazione laser e rilevamento preciso dell'ambiente circostante

Aspira il pavimento senza perdersi

Il Robot aspirapolvere S12 di Xiaomi è dotato di tecnologia di navigazione laser, in grado di eseguire scansioni a 360°, identificare rapidamente l'ambiente domestico e creare una mappa dell'abitazione accurata.

8 metri* Portata di scansione	6×360°/s* Copertura di pulizia completa
2 K_s* Frequenza di campionamento	2,5%* Deviazione di precisione

Figure 3.3: Overview of Xiaomi Robot Vacuum S12 EU's intelligent features. This composite image highlights LDS laser navigation, powerful 4000Pa suction, zig-zag and Y-shaped cleaning paths, multiple sensors, intelligent water tank, and connectivity with the Xiaomi Home app.



Figure 3.4: Cleaning path patterns of the Xiaomi Robot Vacuum S12 EU. The image demonstrates the robot's ability to perform both zig-zag and Y-shaped cleaning patterns for thorough floor coverage.

4. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your robot vacuum.

4.1 Dustbin Emptying and Cleaning

Empty the dustbin after each cleaning cycle. Open the top cover of the robot, remove the dustbin, and discard the collected debris. Rinse the dustbin with water if necessary, ensuring it is completely dry before reinserting.

4.2 Brush Cleaning

Regularly check and clean the main brush and side brush. Remove any tangled hair or debris using the provided cleaning tool. The main brush can be detached for easier cleaning.

4.3 Filter Cleaning/Replacement

The HEPA filter inside the dustbin should be cleaned regularly by tapping it gently to remove dust. Replace the filter every 3-6 months, or as indicated by the app, to maintain suction efficiency.

4.4 Water Tank and Mopping Pad Maintenance

After mopping, empty any remaining water from the tank. Remove and clean the mopping pad. Wash the pad thoroughly and allow it to air dry completely before reattaching or storing.

4.5 Sensor Cleaning

Wipe the cliff sensors, wall sensors, and charging contacts with a soft, dry cloth to ensure they are free of dust and debris. Clean the LDS laser sensor window periodically.

Sensore LDS sollevato con portata di rilevamento a 360 gradi

Il robot è dotato di un sensore di distanza laser all'avanguardia che consente un posizionamento preciso, misurazioni accurate della distanza e prestazioni migliori.



Figure 4.1: Close-up view of the raised LDS sensor on the Xiaomi Robot Vacuum S12 EU. This sensor provides 360-degree detection for precise navigation and mapping.

5. TROUBLESHOOTING

If you encounter issues with your robot vacuum, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Robot does not charge.	Charging contacts are dirty or misaligned.	Clean charging contacts on both robot and dock. Ensure proper alignment.
Robot gets stuck frequently.	Obstacles in cleaning path; sensors are dirty.	Clear cables, toys, and other obstacles. Clean all sensors.
Poor suction performance.	Dustbin full; filter clogged; main brush tangled.	Empty dustbin. Clean or replace filter. Clean main brush.
Mopping function not working.	Water tank empty; mopping pad not attached correctly.	Fill water tank. Ensure mopping pad is securely attached.
Robot cannot connect to Wi-Fi.	Incorrect Wi-Fi password; weak signal; router issues.	Verify password. Move robot closer to router. Restart router.

For more detailed troubleshooting, refer to the Xiaomi Home app or the official Xiaomi support website.

6. SPECIFICATIONS

Feature	Specification
Brand	Xiaomi
Model Name	Robot Vacuum S12

Feature	Specification
Model Number	BHR5988EU
Color	Black
Capacity	300 Milliliter
Voltage	230 Volt
Runtime	130 Minutes (2 hours and 10 minutes)
Special Features	Anti-collision, Wireless, Anti-fall, Smart-mapping
Product Dimensions	12L x 3B x 8H centimeters
Controller Type	Voice Control
Filter Type	HEPA
Surface Recommendation	Indoor use

7. WARRANTY AND SUPPORT

For information regarding warranty coverage and terms, please refer to the documentation provided with your purchase or visit the official Xiaomi support website. A 30-day refund/replacement policy is typically available from the date of purchase.

For technical support, troubleshooting assistance, or spare parts, please contact Xiaomi customer service through their official channels. Ensure you have your product model number (BHR5988EU) and purchase details ready when contacting support.