

## VIOMI V-RVCLM27B

# VIOMI Alpha 2 Pro Robot Vacuum Cleaner User Manual

Model: V-RVCLM27B

## 1. INTRODUCTION

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Thank you for choosing the VIOMI Alpha 2 Pro Robot Vacuum Cleaner. This advanced robotic cleaner is designed to provide efficient and thorough cleaning for your home, featuring Lidar navigation, obstacle avoidance, automatic dirt disposal, and powerful suction. Please read this manual carefully before use to ensure proper operation and maintenance.



Figure 1.1: VIOMI Alpha 2 Pro Robot Vacuum Cleaner with Auto-Emptying Station.

## 2. IMPORTANT SAFETY INFORMATION

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and injury. This includes:

- Read all instructions before using the appliance.
- Do not operate the robot vacuum in wet environments or near water.
- Ensure the power adapter and charging dock are not damaged.
- Keep hair, loose clothing, fingers, and all parts of the body away from openings and moving parts.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not use without dust bin and/or filters in place.
- Supervise children and pets when the robot is operating.

- Only use manufacturer-specified attachments and replacement parts.

## 3. PACKAGE CONTENTS

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Verify that all components are present and in good condition:

- VIOMI Alpha 2 Pro Robot Vacuum Cleaner
- Auto-Emptying Station
- Power Cable
- Dust Bags (2 replacement bags included)
- Side Brushes (2 included)
- Mop Pad Holder
- Disposable Mop Pads (10 included)
- Washable Mop Pads (2 included)
- User Manual

## 4. PRODUCT OVERVIEW

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### 4.1 Robot Vacuum Components



Figure 4.1: Top view of the robot vacuum, highlighting its powerful 4000Pa suction.

The VIOMI Alpha 2 Pro features a sleek design with advanced sensors for efficient navigation and cleaning. Key components include:

- **Lidar Navigation System:** Located on top, it scans the environment to create accurate maps of your home.
- **Four-Line Laser Obstacle Avoidance:** Front-facing lasers detect and avoid common household objects, preventing collisions.
- **Main Brush:** An ultra-long main brush for deep cleaning carpets and hard floors.
- **Side Brushes:** Extend cleaning reach into corners and along walls.
- **Dust Bin:** Collects debris during vacuuming.
- **Water Tank:** For mopping functionality.



Figure 4.2: The robot's four-line laser system for advanced obstacle avoidance.



Ultralange Hauptbürste & Seitenbürste  
Decken Sie mehr Fläche ab

Figure 4.3: Illustration of the ultra-long main brush and extended side brush for comprehensive coverage.

## 4.2 Auto-Emptying Station

The auto-emptying station automatically transfers collected dust and debris from the robot's dustbin into a sealed dust bag, minimizing manual intervention.

Es entleert die Staubbox von selbst  
und befreit Ihre Hände



Figure 4.4: The self-emptying feature allows for hands-free dust disposal.

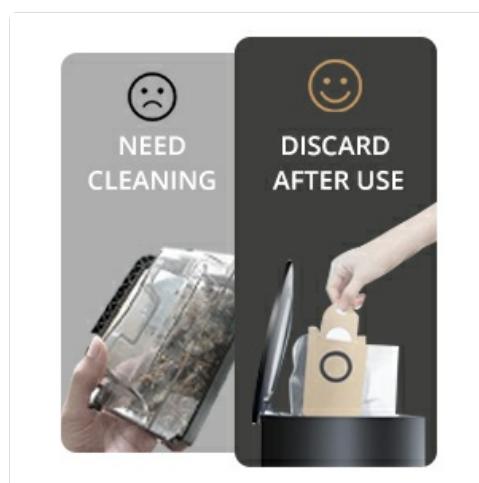


Figure 4.5: The convenience of discarding a full dust bag versus manually cleaning a dustbin.

## 5. SETUP

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### 5.1 Initial Charging and Placement

1. Unpack the robot vacuum and the auto-emptying station.
2. Place the auto-emptying station against a wall in an open area, ensuring there are no obstacles within 1.5 meters in front and 0.5 meters to the sides.
3. Connect the power cable to the station and plug it into a power outlet.
4. Place the robot vacuum onto the charging contacts of the station. Ensure it is properly docked. The robot will begin charging. For first use, fully charge the robot.

### 5.2 Connecting to the Mi Home App

The Mi Home app allows for advanced control and customization of your robot vacuum.

1. Download the "Mi Home" app from your smartphone's app store (Google Play Store or Apple App Store).
2. Register or log in to your Mi account.
3. Open the app and tap the "+" icon to add a new device.
4. Select the VIOMI Alpha 2 Pro from the list of available devices.
5. Follow the on-screen instructions to connect the robot to your home's 2.4GHz Wi-Fi network. (Note: 5GHz Wi-Fi is not supported).
6. Once connected, the robot will appear in your device list.



Figure 5.1: Mi Home App interface for controlling the robot vacuum, compatible with Alexa and Google Assistant.

### 5.3 Initial Mapping

For optimal performance, allow the robot to complete a full mapping run of your home before setting specific cleaning tasks.

- Ensure all doors are open to areas you want mapped.
- Remove any large obstacles or loose cables from the floor.
- Start a full cleaning cycle from the app. The robot will explore and create a detailed map.
- Once the map is generated, you can edit rooms, set virtual walls, and define no-go zones within the Mi Home app.



Figure 5.2: The robot's ability to map and adapt to multiple floor levels.

## 6. OPERATING THE ROBOT VACUUM

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### 6.1 Cleaning Modes

The VIOMI Alpha 2 Pro supports various cleaning modes accessible via the Mi Home app:

- **Vacuuming Mode:** Standard cleaning with adjustable suction power (e.g., Silent, Standard, Strong, Max 4000Pa).
- **Mopping Mode:** Attach the mop pad holder and fill the water tank. The robot will mop the floor.
- **Vacuum & Mop Mode:** Simultaneous vacuuming and mopping.
- **Spot Cleaning:** Directs the robot to clean a specific small area.
- **Zone Cleaning:** Define specific areas on the map for the robot to clean.
- **Scheduled Cleaning:** Set specific times for the robot to clean designated areas.

# 3-IN-1

## SWEEP, VACUUM & MOP



Figure 6.1: The robot's versatile 3-in-1 functionality: sweep, vacuum, and mop.



Figure 6.2: Example of scheduled cleaning for different areas of the home.

### 6.2 Virtual Walls and No-Go Zones

Using the Mi Home app, you can define areas the robot should avoid:

- **Virtual Walls:** Draw lines on the map to create invisible barriers.
- **No-Go Zones:** Draw rectangular areas on the map that the robot will not enter.

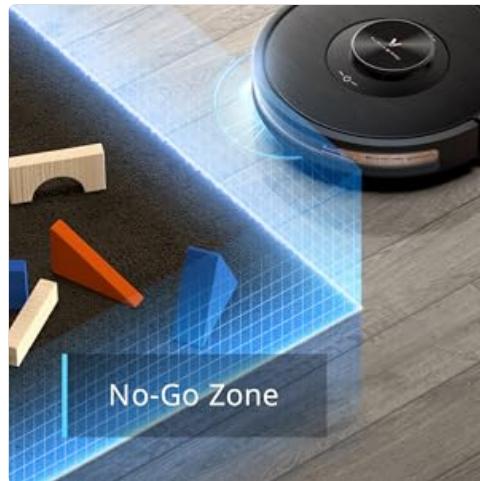


Figure 6.3: Setting up a 'No-Go Zone' to prevent the robot from entering specific areas.

### 6.3 Voice Control

The VIOMI Alpha 2 Pro supports voice control via Google Home and Amazon Alexa. Link your Mi Home account to these services and use commands like "Start cleaning" or "Go back to charge."

## 7. MAINTENANCE

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

### 7.1 Emptying the Dust Bag

The auto-emptying station will automatically empty the robot's dustbin. Replace the dust bag in the station when it is full. The app may notify you when replacement is needed.

### 7.2 Cleaning Brushes and Filters

- **Main Brush:** Periodically remove the main brush and clean off any tangled hair or debris using the cleaning tool provided.
- **Side Brushes:** Check side brushes for wear and tear. Replace if damaged or excessively worn. Remove tangled hair.
- **Filters:** Tap out dust from the HEPA filter and rinse the pre-filter if applicable. Allow to air dry completely before reinserting.



Figure 7.1: Overview of replaceable components for maintenance.

### 7.3 Cleaning Sensors and Charging Contacts

Wipe the Lidar sensor, anti-drop sensors, and charging contacts on both the robot and the station with a clean, dry cloth to ensure proper function.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Robot does not turn on.	Low battery; not properly docked.	Ensure robot is fully charged on the station. Check power connection to the station.
Robot cannot connect to Wi-Fi / frequently loses connection.	Incorrect Wi-Fi password; 5GHz network; weak signal.	Ensure you are connecting to a 2.4GHz network. Re-enter Wi-Fi password. Move station closer to router or consider a Wi-Fi extender.
Robot gets stuck frequently.	Obstacles (cables, small objects); high thresholds.	Clear floor of obstacles. Use virtual walls/no-go zones for problematic areas. The robot can overcome obstacles up to 20mm.

Problem	Possible Cause	Solution
Poor cleaning performance.	Full dustbin; clogged brushes/filters; low suction setting.	Replace dust bag. Clean main brush, side brushes, and filters. Increase suction power in the app.
Auto-emptying station is very loud.	Normal operation during dust collection.	This is normal during the emptying process. Consider scheduling emptying during times when noise is less disruptive.

## 9. SPECIFICATIONS

Feature	Detail
Brand	VIOMI
Model Number	V-RVCLM27B
Color	Black
Dimensions (L x W x H)	35 x 35 x 9.5 cm
Weight	13.2 Kilograms
Suction Power	Up to 4000 Pa
Battery Capacity	5200 mAh
Runtime	Up to 220 minutes
Cleaning Area	Up to 420 m <sup>2</sup>
Navigation Type	Lidar Navigation
Obstacle Avoidance	Four-line Laser AI
Dust Disposal	Automatic Dirt Disposal
Connectivity	2.4GHz Wi-Fi (Mi Home App)
Voice Control	Amazon Alexa, Google Home
Surface Recommendation	Hard Floor, Carpet

## 10. WARRANTY AND SUPPORT

The VIOMI Alpha 2 Pro comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. For warranty claims or technical support, please contact VIOMI customer service through the Mi Home app or visit the official VIOMI website. Please retain your proof of purchase.

*Note: Information regarding spare parts availability is currently not provided. Please check with VIOMI customer support for replacement parts.*

## Documents - VIOMI – V-RVCLM27B

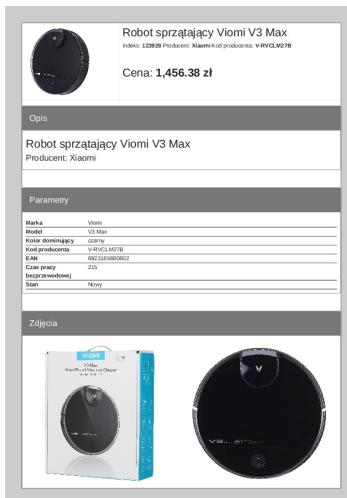


### [Viomi V3 Max Robot Vacuum Cleaner User Manual](#)

Comprehensive user manual for the Viomi V3 Max robot vacuum cleaner, covering setup, operation, maintenance, troubleshooting, and specifications.

lang:en score:32 filesize: 4.01 M page\_count: 22 document date: 2021-06-17

RoHS CE



### [\[pdf\]](#)

Robot sprzątający Viomi V3 Max Sklep internetowy stylem pl robot sprzątający viomi v3 max 123928 upload files product |||

Robot sprzątający Viomi V3 Max Indeks: 123928 Producent: Xiaomi Kod producenta: **V-RVCLM27B** Cena: 1,456.38 zł Opis Robot sprzątający Viomi V3 Max Producent: Xiaomi Parametry Marka Model Kolor dominujący Kod producenta EAN Czas pracy bezprzewodowej Stan Viomi V3 Max czarny **V-RVCLM27B** 6923185680802 215 ...  
lang:en score:32 filesize: 1.93 M page\_count: 2 document date: 2022-08-03



### [\[pdf\] User Manual Instructions Declaration of Conformity Accessories](#)

Viomi V3 Max 20210421 User Manual VIOMI Robot Vacuum and Mop Combo Lidar Navigation Laser Intelligent for Pet Hair 2700Pa Suction Robotic Cleaner with Alexa 2 in 1 Mopping Carpet Industrial Scientific C16pLvx4D7S m media amazon images I ||| Safety Information 1. Instructions for use Please pay attention to the following basic safety precautions ... a. Voltage Net Weight Wireless Connectivity Operation Frequency Maximum Output Power V-RVCLM27A/**V-RVCLM27B** 350 105 mm 24 V 1.5 A 35 W 5200 mAh 14.4 V 3.6 kg Wi-Fi IEEE 802.11b/g/n 2.4 GHz 2412-24...  
lang:en score:30 filesize: 4.34 M page\_count: 24 document date: 2021-08-17



### [\[pdf\] User Manual Instructions Declaration of Conformity](#)

xiaomi viomi v3 trovaprezzi it manuali |||

Questo manuale di istruzione fornito da trovaprezzi.it. Scopri tutte le offerte per Xiaomi Viomi V3 ... a. Voltage Net Weight Wireless Connectivity Operation Frequency Maximum Output Power V-RVCLM27A/**V-RVCLM27B** 350 105 mm 24 V 1.5 A 35 W 5200 mAh 14.4 V 3.6 kg Wi-Fi IEEE 802.11b/g/n 2.4 GHz 2400-24...  
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RoHS CE

Foshan Yomi Electrical Technology Co., Ltd.

I, the signee, (Name): Sun  
Except for the model name and color, other electronic structures and functions are the same.

Item Name : Robot Vacuum Cleaner  
Model Number : Y-VC1007A  
Additional Model : V-VC1007B

FCC ID: 2AZVS/3MAX

**<Signature>**

  
Kai Chen

Name: Kai Chen  
Title: Manager  
Company: Foshan Yomi Electrical Technology Co., Ltd.

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Vtech Electronics Ltd User MODEL DIFFERENCE LETTER Foshan Viomi Electrical Technology Co

V3MAX Robot Vacuum Cleaner 2AZW5 2AZW5V3MAX v3max

Foshan Viomi Electrical Technology Co., Ltd. I, the signer, Rongli Sun Except for the model name and color, other electronic structures and functions are the same. Item Name Robot Vacuum Cleaner Model Number: V-RVCLM27A Additional Model: V-RVCLM27B ECC ID: 2AZW5-V3MAX Signature Name: Kai chen Title:

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## FCC Test Report

Report No.: AGC03411210101FE05

FCC ID	2AZWS-V3MAX
APPLICATION PURPOSE	Original Equipment
PRODUCT DESIGNATION	Robot Vacuum Cleaner
BRAND NAME	N/A
MODEL NAME	V-RCVLM27B
APPLICANT	Foshan VIOMI Electrical Technology Co., Ltd.
DATE OF ISSUE	Mar. 10, 2021
STANDARDS	
TEST PROCEDURE(S)	FCC Part 15.247
REPORT VERSION	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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### [\[pdf\]](#) Declaration of Conformity Test Report

Test Report WiFi Part 1 of 3 Foshan Viomi Electrical Technology Co Ltd V3MAX Robot Vacuum Cleaner  
2AZW5 2AZW5V3MAX v3max

Page 1 of 95 FCC Test Report Report No.: AGC03411210101FE05 FCC ID

APPLICATION PURPOSE PRODUCT DESIGNATION BRAND NAME MODEL

NAME APPLICANT DATE OF ISSUE STANDARD S TEST PROCEDURE S

REPORT VERSION : 2AZW5-V3MAX : Original Equipment : Robot Vacuum Cleaner :

N/A : V-RVCLM27B : Foshan VIOMI Electri...

lang:en score:26 filesize: 4.55 M page\_count: 45 document date: 2021-06-17

[pdf] User Manual

User Manual 2 of Foshan Viomi Electrical Technology Co Ltd V3MAX Robot Vacuum Cleaner 2AZW52AZW5V3MAX v3max

Faults in Wi-Fi connection If you fail to control the machine with your smartphone, please try the ... -Spannung Ne ogewicht Drahtlose Konnektivitt Betriebsfrequenz Maximale Ausgangsleistung V-RVCLM27A/**V-RVCLM27B** 350 105 mm 24 V 1.5 A 35 W 5200 mAh 14.4 V 3.6 kg WLAN IEEE 802.11b/g/n 2.4 GHz 2400-248

lang:en score:25 filesize: 3.99 M page\_count: 22 document\_date: 2021-06-17

[\[pdf\]](#) Test Report

Microsoft Word ESTE R2109194 V RVCLM27A WIFI Administrator C2PC REPORT Foshan Viomi

Electrical Technology Co Ltd V3MAX Robot Vacuum Cleaner 2AZW5 2AZW5V3MAX v3max

FCC ID: 2AZW5-V3MAX FCC PART 15C TEST REPORT FOR CERTIFICATION On

Behalf of Foshan Viomi Electrical Technology Co., Ltd. Robot Vacuum Cleaner Model

Number: V-RVCLM27A Additional Model: **V-RVCLM27B** FCC ID: 2AZW5-V3MAX

Prepared for: Foshan Viomi Electrical Technology Co., Ltd. 2nd Floor, No.1 Buildi..

lang:en score:21 filesize: 2.59 M page\_count: 41 document date: 2021-10-13

Report No.: AGC/RC441/DRB01/TE02  
Page 46 of 95

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

## [pdf] Test Report

Test Report WiFi Part 2 of 3 Foshan Viomi Electrical Technology Co Ltd V3MAX Robot Vacuum Cleaner 2AZW5 2AZW5V3MAX v3max

Report No.: AGC03411210101FE05 Page 46 of 95 TEST PLOT OF SPECTRAL  
DENSITY FOR MIDDLE CHANNEL TEST P ... odel Name 21.8C Relative Humidit  
960hPa 802.11b with date rate 1 2412MHZ Test Voltage Antenna **V-RVCLM27B** 5  
Normal Voltage Horizontal RESULT: PASS EUT Temperature Pressure Test Mode  
Robot V...

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## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Robot Vacuum Cleaner
Model Name	V-RVCLM28
FC/CID	2A9W5-Y3MAX

### 2. EVALUATION METHOD AND DATA

Human exposure to the RF energy from the mobile devices (47 CFR 2.1081) may be evaluated based on the MPE limit adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances greater than 2.5 cm from the body.

### 3. LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	E-Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (W/m <sup>2</sup> )	Assuming Time $E^2/t$ (MHz) <sup>2</sup> < 5 (Minutes)
0.3 - 1.34	614	1.83	100 <sup>2</sup>	30
1.34 - 30	824 <sup>2</sup>	2.19 <sup>2</sup>	1000 <sup>2</sup>	30
30 - 800	27.5	6.073	0.5	30
300 - 1500	...	...	1500	30
1500 - 2000	...	...	1.0	30

<sup>2</sup>Note

1. Frequency in MHz = Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §6.1081 and 2.1093 on source time and averaging requirement for mobile and portable transmitters.

### 4. S-PoWRF<sup>3</sup>

Where:

S-power density

P-power input to antenna

Geometric gain of the antenna in the direction of interest at an isotropic radiator distance to the center of radiation of the antenna

## [pdf] SAR Rating

USER RF exposure Foshan Viomi Electrical Technology Co Ltd V3MAX Robot Vacuum Cleaner 2AZW5 2AZW5V3MAX v3max

RF EXPOSURE EVALUATION 1. PRODUCT INFORMATION Product Description

Model Name FCC ID Robot Vacuum Cleaner **V-RVCLM27B** 2AZW5-V3MAX 2.

EVALUATION METHOD AND LIMIT Human exposure to RF emissions from mobile

devices 47 CFR 2.1091 may be evaluated based on the MPE limits adopted by the FCC for elect

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VIOMI  
VIOMI V3 Max

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1 Terhi Nurminen Käyttöohjeet Verkkokauppa 21 ago 2022 — Lue seuraavat yleiset turvallisuusohjeet  
ennen tuotteen käyttöä käyttöopas huolellisesti ja noudata siinä annettuja ohjeita tuotetta käytäessäsi  
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Turvallisuustiedot 1. Kyttöhjeet | Uusien seuraavat yleiset turvallisuushjeet ehteen

tuotteen kytävät. Lue taulukko ole tukkeutunut. Iata uuselakka Malli Nimellisltiinpite

Nimellisltyvitsa Mitat V-BVCI M27A / **V-BVCI M27B** 24 V = 1.5 A 197 143 84 mm

Tekniset tiedot Moppaava robotti-imuri Malli Mitat Nimelli...



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Viomi V3 Max

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Informacje dotyczc1ce bezpieczenstwa 1. Instrukcja uzytkowania Przed ujyciem produktu naleiy zwr6ci ... ga netto Polqczenie bezprzewodowe Czstotliwosc funkcjonowania Maksymalna moc wyjsciowa V- RVCLM27A/**V-RVCLM27B** cj,350 105 mm 24V = 1.5 A 35 W 5200 mAh 14.4V = 3.6 kg Wi-Fi IEEE 802.11b/g/n 2.4 GHz 24...

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