

## OREiN OL17005-BF05

# OREiN Matter Smart Bathroom Exhaust Fan with Light User Manual

Model: OA08004112 | Brand: OREiN

## 1. INTRODUCTION

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Thank you for choosing the OREiN Matter Smart Bathroom Exhaust Fan with Light. This advanced fan integrates ventilation, lighting, Bluetooth audio, and smart control features to enhance your bathroom experience. It is designed for efficient humidity removal, customizable lighting, and seamless integration with popular smart home platforms like Apple Home, Siri, Alexa, Google Home, and SmartThings.



Image: OREiN Matter Smart Bathroom Exhaust Fan with Light, showcasing the fan, remote, and app interface.

This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your device. Please read this manual thoroughly before installation and use, and retain it for future reference.

## 2. SAFETY INFORMATION

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To reduce the risk of fire, electric shock, or injury to persons, observe the following:

- Install this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- Before servicing or cleaning, switch power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back-drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating,

Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.

- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted fans must always be vented to the outdoors.
- Use this unit only in a bathroom environment.
- This unit is not intended for use in kitchens.
- This unit is not intended for use over a bathtub or shower where it would be exposed to direct water spray.

### 3. PACKAGE CONTENTS

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Verify that all components are present and undamaged:

- OREiN Matter Smart Bathroom Exhaust Fan with Light Unit
- Remote Control
- Installation Manual
- Drywall Cutout Template
- 6" to 4" Duct Adapter
- Mounting Hardware (screws, wire connectors)

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Video: An overview of the OREiN Matter Smart Bathroom Exhaust Fan with Light, demonstrating its features and components.

### 4. SETUP AND INSTALLATION

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Before beginning installation, ensure the power supply is disconnected at the circuit breaker. This fan is designed for ceiling installation and requires a 2.4GHz Wi-Fi network for smart features.

#### 4.1 Ceiling Opening Dimensions

The fan housing measures 12.87" x 10.59" x 7.91". The light cover size is 13.1" x 13.1". The recommended ceiling opening is 11.39" x 10.42" x 9" square. Use the provided drywall cutout template for accurate sizing.

# Product Size



13.1"



13.1"

Fast Bracket



Fan size: 12.87"x7.91"

Light size: 13.1"x13.1"

Ceiling Opening Size:  
11.39"x10.42"

6"to 4" duct  
adapter included

Note: If the exist hole is too small, cut it larger. If too big, patch it.

Image: Detailed diagram showing the fan's dimensions and the required ceiling opening size.

If the hole is too small, trace the housing onto the ceiling and then cut the ceiling with a keyhole saw. If the hole is too big, you'll need to patch the ceiling. The patched areas can be repaired with spackling compound later.

## 4.2 Preparing the Fan Unit

1. **Remove Duct Connector and Wire Cover:** Carefully remove the duct connector and the wire cover from the fan housing. This provides access for wiring and duct connection.

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Video: Step-by-step guide on how to assemble the Flex-Z fast bracket for installation.

2. **Place the Fan Housing:** Insert the fan housing into the prepared ceiling opening.
3. **Install the Flex Bracket:** Secure the fan housing using the Flex Bracket. This bracket allows for easy installation and secure mounting to ceiling joists.

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Video: Detailed instructions on how to install the OREiN Bathroom Fan using the bracket method.

4. **Connect the Wires:** Connect the electrical wires (Green to Green, White to White, Black to Black) using the provided wire connectors. Ensure all connections are secure and follow local electrical codes.
5. **Reattach Wire Cover:** Once wiring is complete, reattach the wire cover with the short screw.
6. **Connect to Circular Duct:** Connect the fan to a 6-inch or 4-inch circular duct (not provided). Use duct tape or aluminum tape to ensure air-tight seals and improve efficiency. Avoid deep corrugations in flexible ducting as they can block the damper; semi-rigid aluminum ducting is recommended.
7. **Secure Fan Housing:** Pull the 4 tabs of the fan housing into the vertical position and align them with the slot on the telescopic support. Bend the tabs to the sides and secure the fan housing firmly to the telescopic support.

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Video: Instructions for installing the OREiN Bathroom Fan without using a bracket.

8. **Connect LED Wire:** Connect the LED wire to the corresponding plug in the fan housing.
9. **Install Lampshade:** Squeeze both sides of the lampshade spring and insert it into the spring guides to install the lampshade.

## 5. OPERATING INSTRUCTIONS

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The OREiN Smart Bathroom Exhaust Fan offers multiple control options for convenience and customization.

### 5.1 Voice Control

The fan is compatible with Apple Home, Siri, Alexa, Google Home, and SmartThings. A Matter-compatible smart speaker (e.g., HomePod, Echo Dot 3rd Gen+, Nest Mini, Nest Hub, SmartThings Hub, Apple TV) is required for voice control. Ensure your network supports 2.4GHz Wi-Fi (5GHz not supported) and IPv6 network connection.



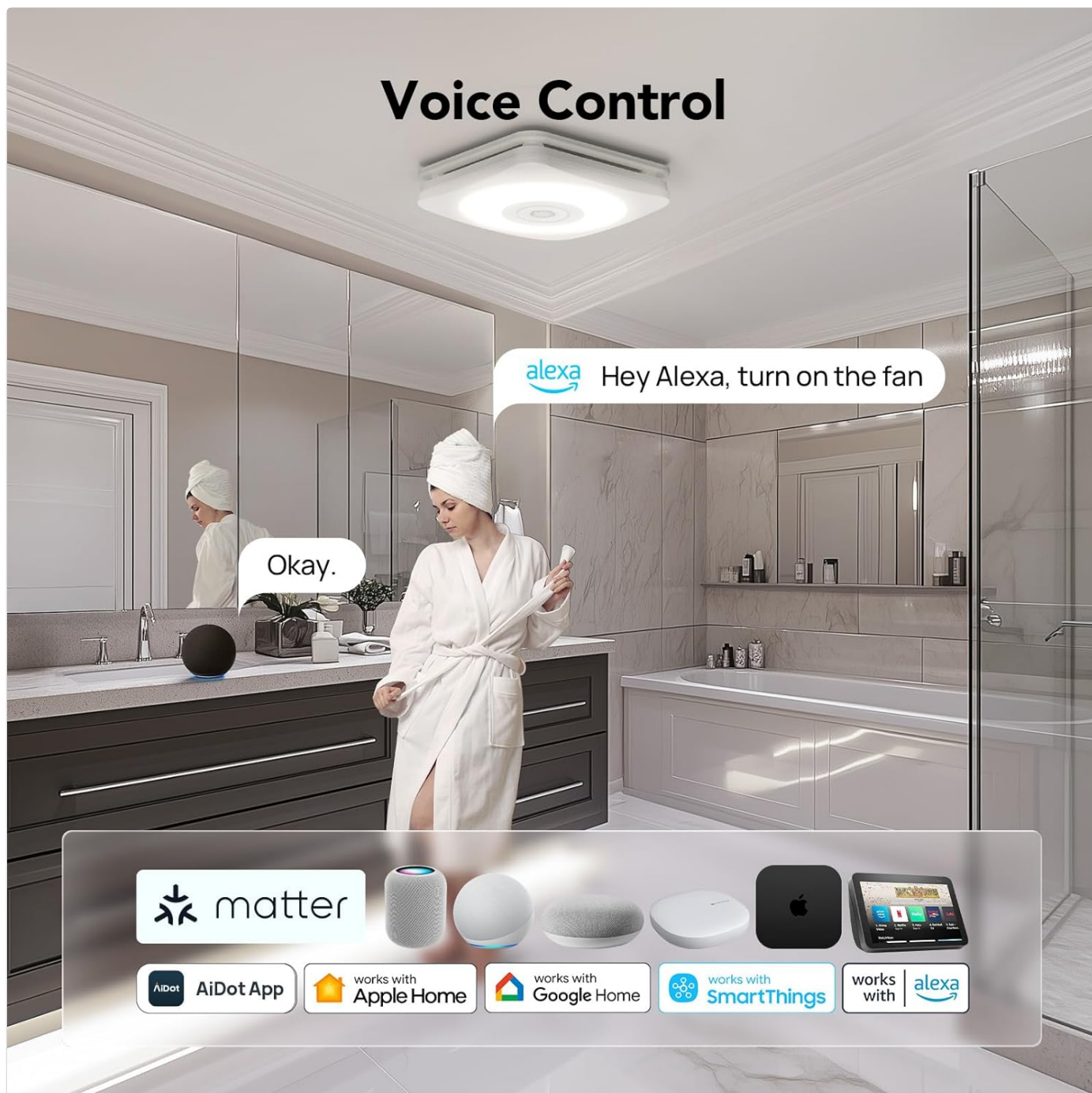


Image: Illustration of the fan being controlled via voice commands through smart home assistants like Alexa.

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Video: Demonstrates how to connect the OREiN fan with Alexa for voice control.

To connect with Alexa: Press and hold the "RGB" and "Fan" buttons on the remote for 5 seconds to prepare for network pairing. Open the Alexa app, click '+' to add a device, scroll to find other options, and choose the 'matter' logo. Follow prompts to confirm the device has a Matter logo and is powered on. Scan the Matter QR code to pair. The fan light will flash once with 2700K light when successfully paired.

## 5.2 Remote & App Control

Control all settings via the included remote control or the AiDot app. The default setting is Light ON / Fan OFF. Use the remote to turn on the fan.

# Remote & App Control



Multi-color



110/160 CFM



Voice Control



APP Control



DIY Mode



Timer



Music sync



0.8/1.0 Sone



Wifi



Humidity Sensor



Image: Overview of features controllable via remote and app, including multi-color, CFM, voice control, app control, DIY mode, timer, music sync, Sone rating, Wi-Fi, and humidity sensor.

# Simple Remote Control



Image: Detailed view of the remote control with button functions for Light ON/OFF, Humidity, Play/Pause (Bluetooth pairing), Nightlight ON/OFF, Fan ON/OFF (CFM selection), Brightness Change, RGB color selection, and Music Sync.

- **Fan Speed (CFM):** Features 110 CFM and 160 CFM airflow options. Long press the fan button on the remote for 5 seconds to switch between 110 CFM (0.8 Sone) and 160 CFM (1.0 Sone).



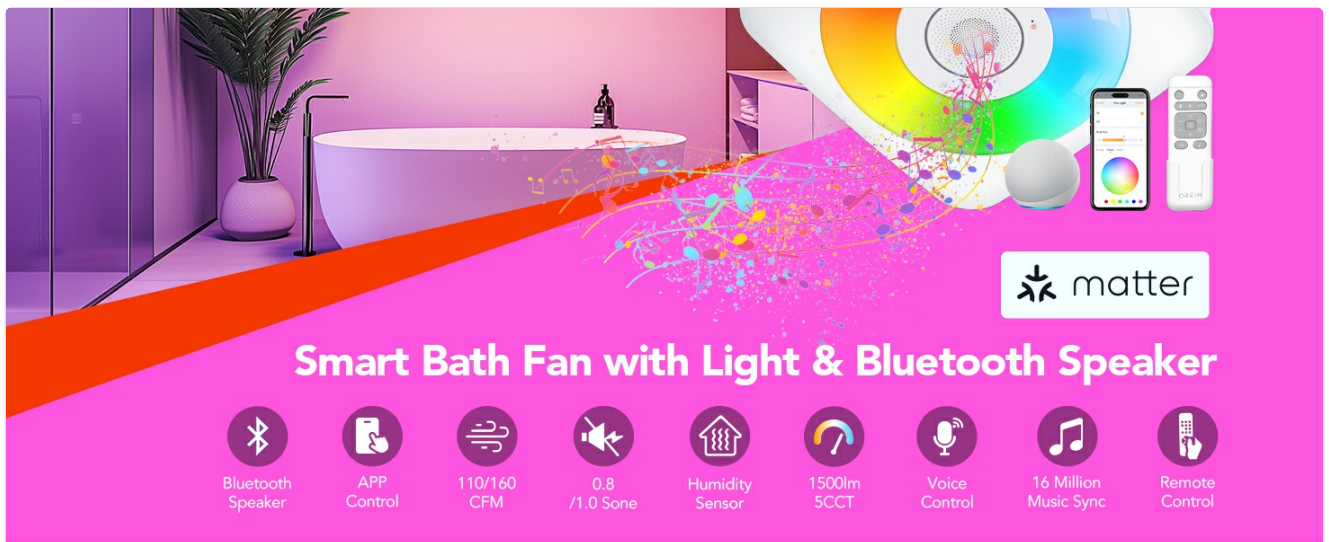


Image: Visual comparison of airflow for 110 CFM and 160 CFM settings, highlighting quiet and energy-efficient operation.

- **Humidity Sensing Mode:** The built-in humidity sensor automatically turns on the fan when the humidity level exceeds 60%. The LED indicator light will be green in this mode. You can check real-time humidity reports and adjust settings via the AiDot app.



Image: Depiction of the humidity sensing mode, showing the fan activating when humidity reaches 60%.

- **Smart Dimming & CCT Adjustment:** The 1500lm main light offers adjustable brightness from 1% to 100% and color temperature (CCT) from 2700K to 6500K. Use the remote or app to customize your lighting.

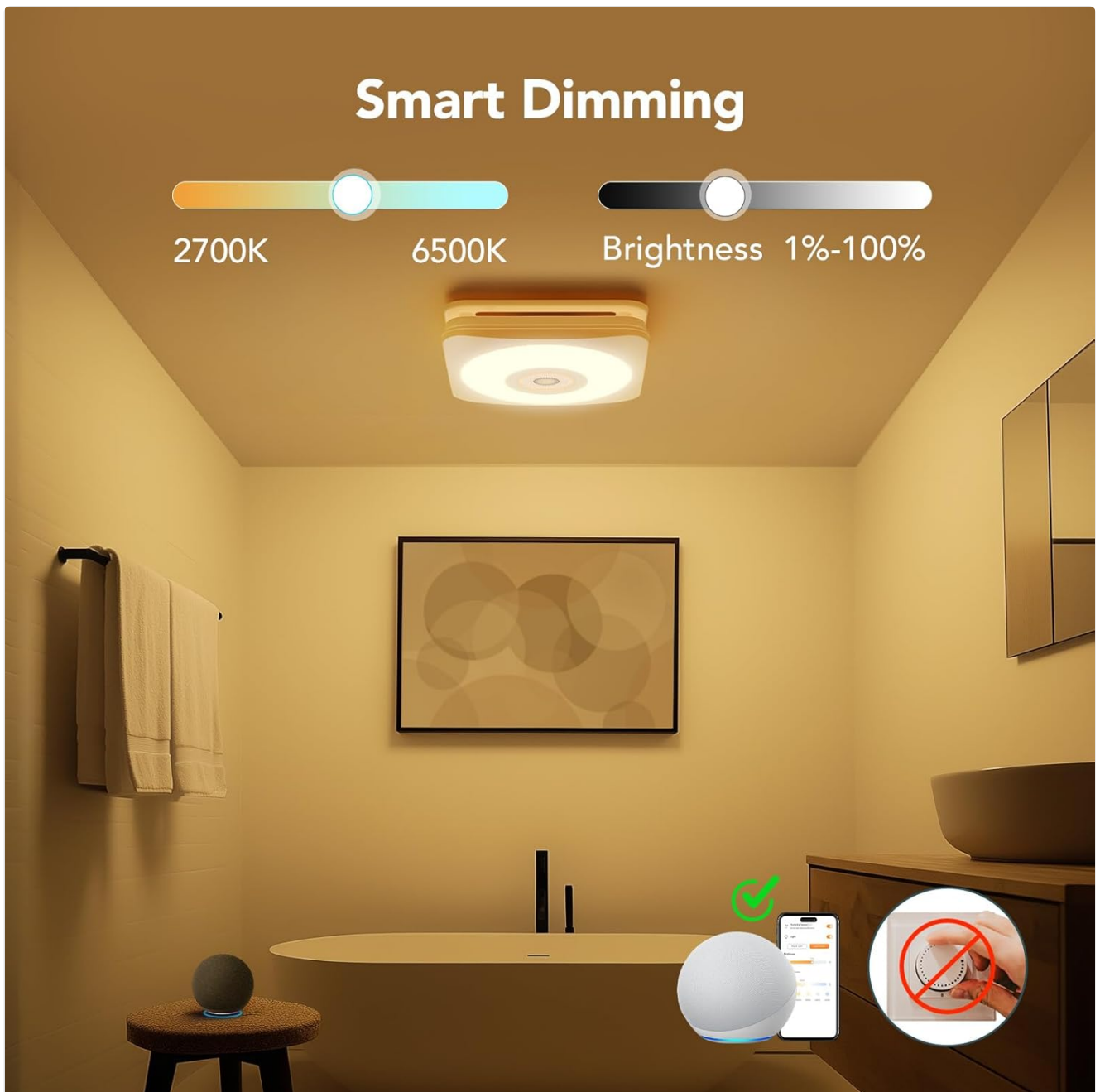


Image: Visual representation of the smart dimming feature, allowing adjustment of brightness from 1% to 100% and color temperature from 2700K to 6500K.

- **16 Million DIY Colors & Music Sync:** Explore 16 million DIY colors and synchronize lighting with music via the Bluetooth speaker. Long press the Play/Pause button on the remote for 5 seconds for Bluetooth pairing.



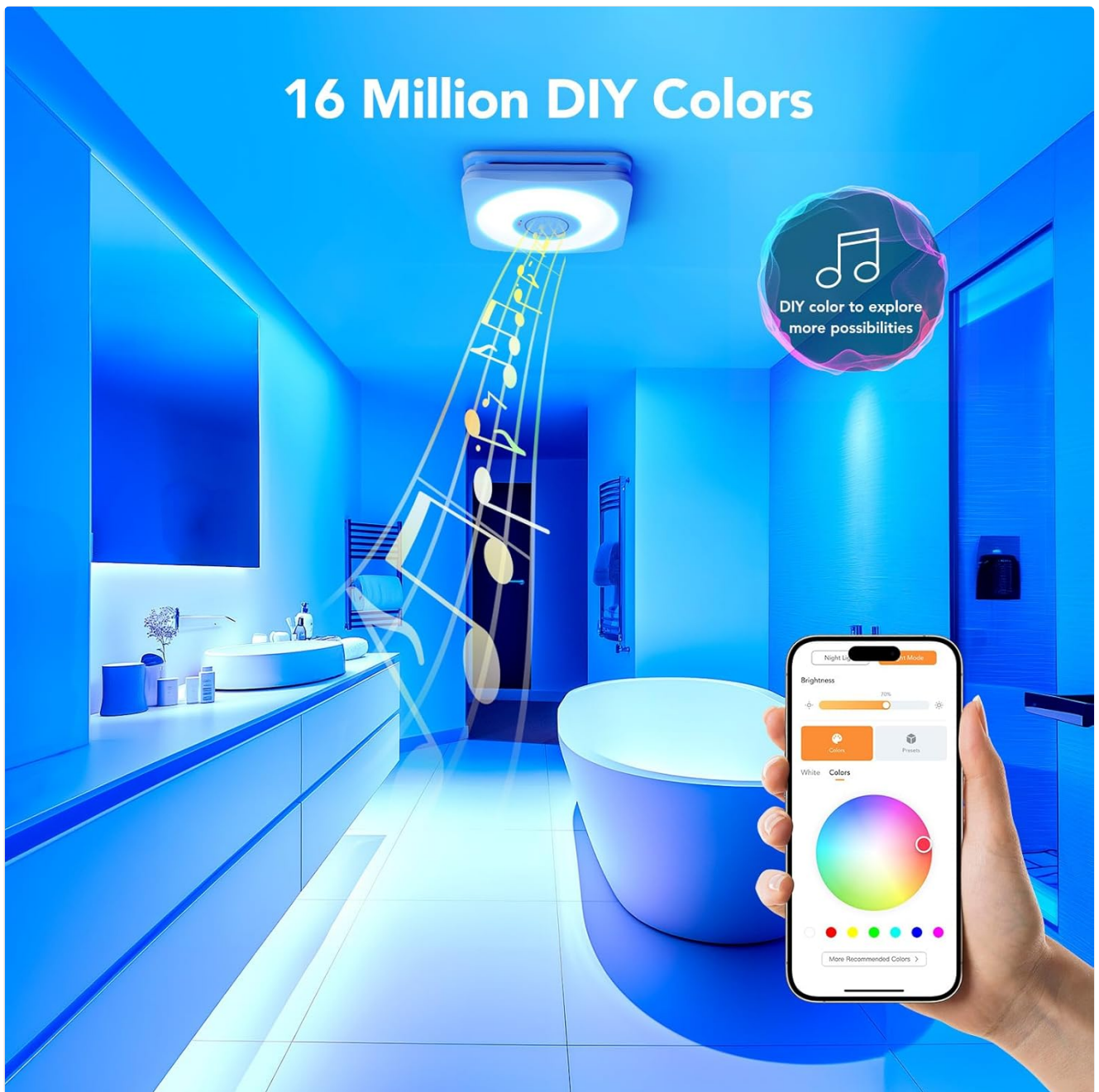


Image: Illustrates the 16 Million DIY Colors feature, showing vibrant lighting effects in a bathroom setting.

- **Night Light Mode:** Activate a soft 200lm 2700K night light for subtle illumination.
- **Schedule & Timer:** Use the AiDot app to set schedules for timed opening or delayed closing of the fan and light, optimizing energy usage and convenience.



Image: Screenshot of the AiDot app interface demonstrating how to add schedules and timers for the fan and light.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your OREiN Smart Bathroom Exhaust Fan.

- **Cleaning the Grille and Light Cover:** Periodically remove the grille and light cover. Wash them in warm, soapy water, rinse thoroughly, and dry completely before reattaching.
- **Cleaning the Fan Housing:** Use a damp cloth to wipe down the interior and exterior of the fan housing. Do not use abrasive cleaners or solvents.

- **Motor Lubrication:** The fan motor is permanently lubricated and does not require additional oiling.
- **Ductwork Inspection:** Annually inspect the ductwork for any blockages, leaks, or damage. Ensure all connections remain air-tight.

## 7. TROUBLESHOOTING

If you encounter issues with your OREiN Smart Bathroom Exhaust Fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not operate	No power supply Loose wiring connection Circuit breaker tripped	Check power supply at the switch and circuit breaker Verify all wire connections are secure (consult a qualified electrician) Reset the circuit breaker
Fan is noisy	Loose mounting screws Ductwork obstruction Damaged fan blade	Tighten all mounting screws Check ductwork for debris or kinks Contact customer support for replacement parts
Poor ventilation	Ductwork obstruction Improper duct size Damper stuck closed	Clear any obstructions in the ductwork Ensure correct duct size (6in or 4in) is used Check if the damper is freely opening and closing
Light not working	Loose LED wire connection Light module failure	Check LED wire connection Contact customer support
Bluetooth speaker not connecting	Not in pairing mode Device too far Already connected to another device	Long press Play/Pause button on remote for 5s to enter pairing mode Ensure device is within Bluetooth range Disconnect from other devices and try again
Smart features not working (App/Voice)	No 2.4GHz Wi-Fi connection Incorrect Matter hub setup Outdated app/firmware	Verify 2.4GHz Wi-Fi is active and strong Ensure Matter hub is correctly configured and connected to IPv6 network Update AiDot app and fan firmware to latest versions

If the problem persists after attempting these solutions, please contact OREiN customer support.

## 8. SPECIFICATIONS

Feature	Specification
Brand	OREiN
Model Name	OL17005-BF05
Item Model Number	OA08004112
Style	Smart Fan
Air Flow Capacity	110/160 CFM (Cubic Feet Per Minute)



Feature	Specification
Noise Level	0.8 Sones (110 CFM) / 1.0 Sones (160 CFM)
Light Output	1500lm (Lumens)
Color Temperature (CCT)	2700K-6500K (Adjustable)
Dimming	1%-100%
Night Light	200lm 2700K
Special Features	Works with Alexa, Bluetooth speaker, Voice control, Remote control, App control, Humidity Sensor, Matter Compatible
Power Source	AC
Wattage	40 watts
Voltage	120 Volts
Product Dimensions	12.87"D x 10.59"W x 7.91"H (Fan Housing)
Light Cover Size	13.1" x 13.1"
Ceiling Opening Size	11.39" x 10.42" x 9" (Square)
Duct Adapter	6" to 4" included
Connectivity	2.4GHz Wi-Fi ONLY (5GHz not supported)
Control Method	Remote, App, Voice
Certifications	FCC


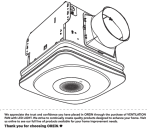
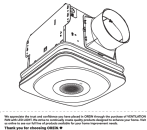
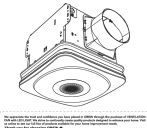


## 9. WARRANTY AND SUPPORT

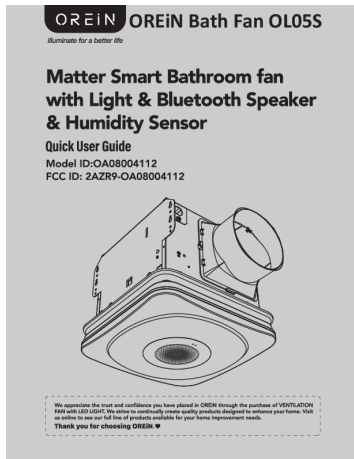
OREiN provides a warranty for this product against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the product packaging or contact OREiN customer support.

For technical assistance, troubleshooting, or warranty claims, please contact OREiN customer support:

- **Online Support:** Visit the [OREiN Brand Store on Amazon](#).
- **Phone Support:** 1(844)506-1530 (24-Hour Service)

You can also find the official installation manual in PDF format [here](#).

 <p><b>OREiN Bathroom Exhaust Fan With Light</b> Model: OA08004112</p>	<p><a href="#">OREiN Bathroom Exhaust Fan with Light - Troubleshooting and FAQs</a></p> <p>Find solutions to common issues with your OREiN Bathroom Exhaust Fan with Light, including installation, performance, noise, and moisture problems. Get answers to frequently asked questions.</p>
 <p><b>OREiN</b> Matter Smart Bathroom fan with Light &amp; Bluetooth Speaker &amp; Humidity Sensor Quick User Guide Model: OA08004112 FCC ID: JAZN9-0A8004112</p>	<p><a href="#">OREiN Matter Smart Bathroom Fan with Light, Bluetooth Speaker &amp; Humidity Sensor - Quick User Guide</a></p> <p>Quick user guide for the OREiN Matter Smart Bathroom Fan (Model OA08004112). Includes installation instructions, specifications, remote operation, troubleshooting, and smart home connectivity (Matter, AiDot, Alexa).</p>
 <p><b>OREiN</b> OREiN Bath Fan OL05S Matter Smart Bathroom fan with Light &amp; Bluetooth Speaker &amp; Humidity Sensor Quick User Guide Model: OA08004112 FCC ID: JAZN9-0A8004112</p>	<p><a href="#">OREiN OL05S Smart Bath Fan with Light, Bluetooth Speaker &amp; Humidity Sensor - Quick User Guide</a></p> <p>Comprehensive quick user guide for the OREiN OL05S smart bathroom fan, detailing installation, operation, safety, and connectivity features including Bluetooth, Matter, and Alexa.</p>
 <p><b>OREiN</b> 110/160CFM Bath Fan with Bluetooth Speaker, 3CCT &amp; Night Light Quick User Guide Model: OL1700107 FCC ID: JAZN9-OL1700107</p>	<p><a href="#">OREiN 110/160 CFM Bath Fan with Bluetooth Speaker, 3CCT &amp; Night Light: Quick User Guide</a></p> <p>This guide provides instructions for installing and operating the OREiN 110/160 CFM Bath Fan with Bluetooth Speaker, featuring 3CCT and a night light. It covers safety information, product specifications, installation steps for new and existing constructions, wiring diagrams, troubleshooting, and remote operation.</p>
 <p><b>OREiN</b> 80/110CFM Bath Fan with 3CCT Light &amp; Humidity Sensor Model: OL1700112</p>	<p><a href="#">OREiN 80/110CFM Bath Fan with 3CCT Light &amp; Humidity Sensor Installation and Operation Manual</a></p> <p>Comprehensive guide for installing, operating, and maintaining the OREiN 80/110CFM Bath Fan with 3CCT LED Light and Humidity Sensor. Includes safety information, troubleshooting, and specifications.</p>
 <p><b>OREiN</b> VENTILATION FAN with LED LIGHT Quick User Guide Model: OL1700107</p>	<p><a href="#">OREiN OL1700107 Ventilation Fan with LED Light: Quick User Guide</a></p> <p>Quick User Guide for the OREiN Ventilation Fan with LED Light (Model OL1700107). Includes safety information, product specifications, installation steps, wiring diagrams, maintenance, and troubleshooting.</p>



[OREIN OL05S Smart Bath Fan with Light, Bluetooth Speaker & Humidity Sensor - Quick User Guide](#)

Comprehensive quick user guide for the OREIN OL05S smart bathroom fan, detailing installation, operation, safety, and connectivity features including Bluetooth, Matter, and Alexa.

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