OREiN OL1700182

OREiN Matter Smart Bathroom Exhaust Fan with Light

Model: OL1700182

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your OREiN Matter Smart Bathroom Exhaust Fan with Light, Model OL1700182. This device integrates ventilation with advanced lighting features and smart home connectivity.

The fan features a quiet 110 CFM ventilation system, a 1200LM dimmable LED light with adjustable color temperature (2700K–6500K), a 2700K night light mode, and 24-zone AI RGB lighting. It is Matter-certified for seamless integration with smart home platforms like Alexa, Apple Home, Google Home, and SmartThings.

2. SAFETY INFORMATION

Read all instructions carefully before installation and use. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Always disconnect power at the circuit breaker before installing or servicing the fan.

- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.

- Ensure the fan is properly grounded.

- Do not install this fan in a ceiling with insulation that exceeds the maximum recommended thickness.

- Do not use this fan with any solid-state speed control device unless specifically approved for use with this fan.

- This fan is for general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

3. SETUP AND INSTALLATION

The OREiN Smart Bathroom Exhaust Fan is designed for flush mount installation. Ensure you have the necessary tools and materials before beginning.

3.1 Pre-Installation Checks

- Verify that the ceiling cutout dimensions are 7.36 inches x 7.68 inches.

- Confirm that the duct size is 4 inches. A 4-inch to 3-inch duct reducer is included for flexible installation.

- Ensure the electrical supply is 120 Volts (AC).

3.2 Installation Steps

1. **Disconnect Power:** Turn off power at the circuit breaker to avoid electrical shock.

2. **Prepare Opening:** Create a ceiling cutout of 7.36" x 7.68" if not already present.

3. **Mount Housing:** Secure the fan housing to the ceiling joists. The unit includes a bracket system for mounting.

4. **Connect Ductwork:** Attach the 4-inch duct to the fan's exhaust port. Use the included reducer if connecting to a 3-inch duct. Ensure all connections are sealed to prevent air leakage.

5. **Wire Electrical:** Connect the fan's electrical wires to the household wiring according to local codes. Ensure proper grounding.

6. **Install Grille:** Once wiring is complete and secure, attach the decorative grille to the fan housing.

Cutout Dimensions:
7.36" x 7.68"

Mounting Depth:
6.43"

Duct Size: 4"

Item Weight:
10.58 lbs

Product Dimensions for Installation

Install Size
7.36 * 7.68 inch

7.5"   7.25"

6.43"

4"→3" Duct Reducer Included

Figure 2: Matter-Enabled Whole-Home Smart Control. The fan integrates with various smart home platforms.

4. OPERATING INSTRUCTIONS

Your OREiN Smart Bathroom Exhaust Fan offers multiple control options for both ventilation and lighting.

4.1 Smart Home Integration (Matter)

The fan is Matter-certified, allowing for quick and seamless integration with major smart home ecosystems.

- **Setup:** Use the provided QR code or nearby device discovery feature within your preferred smart home app (Alexa, Apple Home, Google Home, SmartThings) to add the fan. No additional hub is required.

- **Voice Control:** Once connected, use voice commands through your smart assistant (e.g., "Alexa, turn on the bathroom fan," "Hey Google, set bathroom light to 4000K," "Siri, dim the bathroom light to 50%").

Figure 3: Voice & App Control - Matter Ready. Setup is quick via QR code or nearby discovery.

4.2 App Control

Utilize the dedicated OREiN app or your integrated smart home app for comprehensive control.

- **Fan Control:** Turn the fan on/off, and manage its operation.

- **Lighting Control:** Adjust brightness (1-100%), color temperature (2700K-6500K), and activate the 2700K night light mode.

- **RGB Lighting:** Access the 24 independently controlled RGB zones to create custom gradients, layered colors, or subtle accent lighting.

- **AI Lighting Scene Creator:** Describe a desired lighting scene (e.g., "sunset glow," "ocean blue," "rainbow gradient"), and the AI will generate a matching ambiance.

- **Schedules & Timers:** Set automated schedules for fan and light operation, such as turning on in the morning or off at night.

5 Color Temps via Remote, Unlimited via App

2700K · **3000K** · **4000K** · **5000K** · **6500K**

2700K

6500K

Figure 4: Adjustable Color Temperatures. Control white light from warm to cool.

Exclusive 24-Zone DIY Color 65 Dynamic Lighting Effects

Far Beyond Oridnary RGB Light
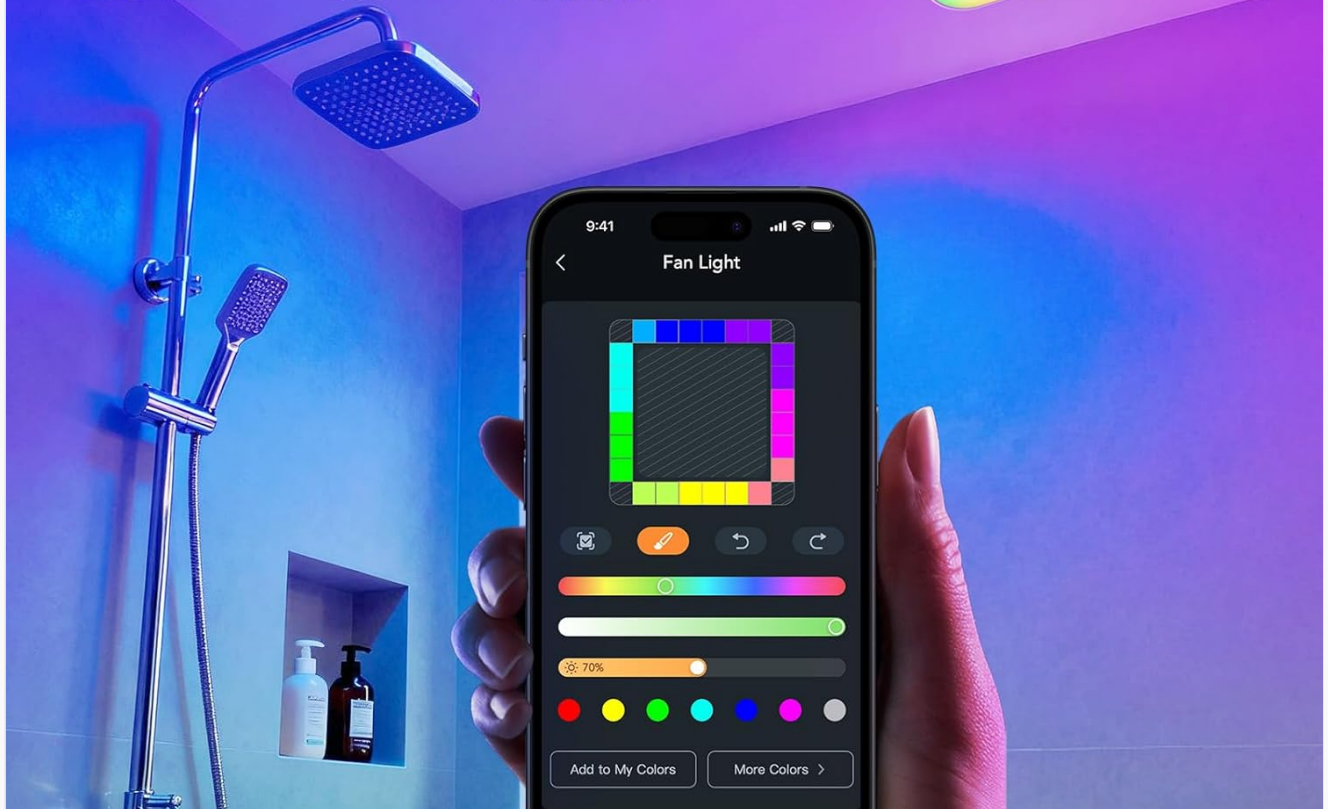
DIY Mode

RGB

AI-Generated

Figure 5: Exclusive 24-Zone DIY RGB Lighting. Create personalized lighting effects.

Exclusive 24-Zone DIY RGB Lighting

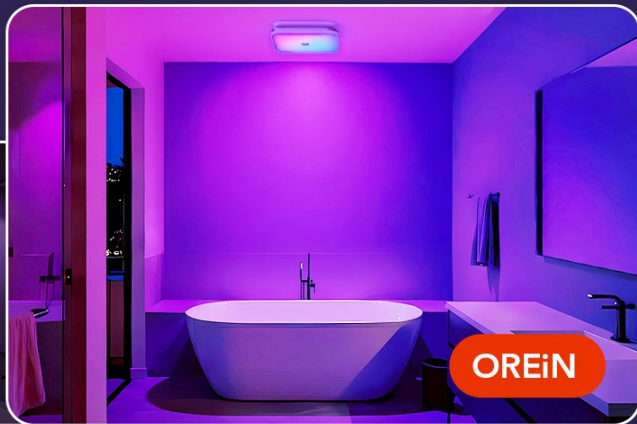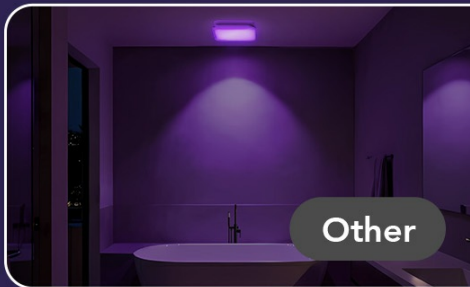Paint your bathroom with colors you love.

Other

OREiN

Figure 6: AI-Generated Lighting. Create scenes using text or voice commands.

Figure 7: Schedule and Timer Settings. Automate fan and light operation.

4.3 Remote Control

A dedicated remote control is included for convenient operation of basic functions.

- **On/Off:** Control both fan and light.

- **Brightness:** Adjust light intensity.

- **Color Temperature:** Select from preset white light temperatures (e.g., Warm White 2700K, Soft White 3000K, Neutral White 4000K, Daylight 5000K, Cool White 6500K).

- **Night Light Mode:** Activate the soft 2700K night light.

- **RGB Modes:** Cycle through RGB color modes (e.g., 7-color cycle, dual-color cycle).

Figure 8: Remote Control Functions. Easy access to fan and light settings.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your exhaust fan.

- **Cleaning the Grille:** Periodically remove the grille and wipe it with a soft, damp cloth. Do not use abrasive cleaners.
- **Cleaning the Fan Blades:** With power disconnected, gently wipe the fan blades with a damp cloth to remove dust and debris.
- **Ductwork Inspection:** Annually inspect the ductwork for any blockages or disconnections that could impede airflow.
- **Light Cover:** Clean the light cover with a soft, dry or slightly damp cloth.

Always disconnect power before performing any maintenance.

6. TROUBLESHOOTING

If you encounter issues with your OREiN Smart Bathroom Exhaust Fan, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Fan does not turn on	No power supply Loose wiring Faulty switch/remote	Check circuit breaker. Ensure power is on. Verify all electrical connections are secure (consult an electrician). Test with app control if remote is suspected. Replace remote batteries.
Light does not turn on	No power supply Loose wiring Faulty light component	Check circuit breaker. Ensure power is on. Verify all electrical connections are secure (consult an electrician). If only the light is affected, contact customer support.
Poor ventilation/High humidity	Blocked ductwork Improper duct installation Fan size inadequate for room	Inspect ductwork for obstructions. Ensure ductwork is properly sealed and routed. Verify fan CFM rating is appropriate for your bathroom size.
Fan is noisy	Loose mounting Obstruction in fan blades Ductwork issues	Ensure fan housing is securely mounted. Disconnect power and check for debris in fan blades. Inspect ductwork for kinks or loose connections.
Cannot connect to smart home/app	Incorrect setup procedure Wi-Fi interference Matter hub issues	Review setup instructions for Matter integration. Ensure QR code is scanned correctly. Ensure your Wi-Fi network is 2.4GHz and stable. Restart your Matter controller/hub.
Light color temperature is incorrect or inconsistent	Quick power cycling Software glitch	Avoid rapidly cycling power. Turn off for 10 seconds, then turn on. Reset the device via the app or by power cycling for an extended period (e.g., 1 minute).

7. SPECIFICATIONS

Feature	Specification
Brand	OREiN
Model Name	Matter smart bathroom fan (OL1700182)
Electric Fan Design	Exhaust Fan
Air Flow Capacity	110 Cubic Feet Per Minute (CFM)

Feature	Specification
Noise Level	2 Sones
Product Dimensions	6.43"D x 7.55"W x 7.2"H
Ceiling Cutout	7.36" x 7.68"
Duct Size	4" (includes 4" to 3" reducer)
Wattage	62 watts
Voltage	120 Volts (AC)
Light Output	1200 Lumens (LM)
Color Temperature	2700K–6500K (Dimmable)
Night Light	2700K
RGB Lighting	24-Zone DIY Color & 65 Dynamic Lighting Effects
Control Methods	App, Remote, Voice
Smart Home Compatibility	Matter, Alexa, Google Home, Apple Home, SmartThings
Installation Type	Flush Mount
Item Weight	8.98 pounds

8. WARRANTY INFORMATION

For detailed warranty information, please refer to the warranty card included with your product packaging or visit the official OREiN website. Keep your proof of purchase for warranty claims.

9. SUPPORT

If you require further assistance or have questions not covered in this manual, please contact OREiN customer support through their official website or the contact information provided in your product documentation.