

Hon&Guan ZH441

Hon&Guan Bathroom Exhaust Fan with Adjustable LED Light

Model: ZH441 User Manual

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1. IMPORTANT SAFETY INFORMATION

Please read all instructions carefully before installation and use. Failure to follow these instructions may result in electric shock, fire, or other hazards. Keep this manual for future reference.

- Always disconnect power at the circuit breaker before installing, servicing, or cleaning the unit.
- All wiring must be performed by a qualified electrician in accordance with all applicable local and national electrical codes.
- This fan is intended for general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- Ensure the mounting location can support the weight of the fan.
- Do not install this fan in a ceiling with insulation exceeding R-50.
- The fan motor is equipped with an automatic thermal overload protector. If the motor overheats, it will shut off automatically.

2. PRODUCT OVERVIEW

The Hon&Guan Bathroom Exhaust Fan with Adjustable LED Light (Model ZH441) is designed to provide efficient ventilation and customizable lighting for your bathroom. It features a quiet operation, powerful airflow, and an integrated LED light with three adjustable color temperatures.

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Video: This video demonstrates the Hon&Guan Bathroom Exhaust Fan's powerful exhaust capacity, ability to quickly remove humidity, and the three adjustable LED light color options (3000K, 4500K, 6500K). It also highlights the quiet operation for a comfortable environment.

Key Features:

- **Efficient Ventilation:** 110 CFM airflow with a sturdy pure copper motor for quick moisture and odor removal.
- **Adjustable LED Light:** Integrated LED light with three color temperature options (3000K Warm White, 4500K Daylight, 6500K Cool White) and a memory function.
- **Quiet Operation:** Operates at 1.0 Sones (less than 34dB) for minimal noise disruption.
- **Durable Construction:** Made from high-quality ABS and PP material, moisture-proof and rust-proof.
- **Easy Installation:** Designed for straightforward installation with included accessories.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Hon&Guan Bathroom Exhaust Fan with Adjustable LED Light
- 4-inch double-layer aluminum foil tube
- Screws for mounting
- Other necessary installation accessories (e.g., clamps, quick connectors)
- User Manual

4. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	Hon&Guan
Model Name	ZH441
Color	White
Electric Fan Design	Exhaust Fan
Power Source	AC
Style	Adjustable Light
Product Dimensions (L x W x H)	12"D x 12"W x 6"H
Mounting Hole Size	9.84" x 9.84" (25cm x 25cm)
Duct Diameter	4.0" (9.7cm)
Room Type	Bathroom
Noise Level	1.0 Sones
Air Flow Capacity	110 Cubic Feet Per Minute (CFM)
Motor Speed	1300 RPM
Motor Type	Pure Copper Motor
Control Method	Touch

Feature	Specification
LED Color Temperatures	3000K, 4500K, 6500K
Installation Type	Hardwired, Ceiling Mount
Item Weight	4.47 pounds



Image: This image illustrates the product dimensions, including the 4-inch duct size, 9.84" x 9.84" cutout size, and overall 11.54" x 11.54" panel size. It also shows electrical specifications: ABS+PP material, 100-120V/50-60Hz, 10W LED power consumption, and 960lm LED light brightness.

5. INSTALLATION INSTRUCTIONS

Follow these steps for proper installation. It is recommended that installation be performed by a qualified professional.

- 1. Prepare the Mounting Area:** Ensure power is disconnected at the circuit breaker. Cut a hole of the appropriate size (9.84" x 9.84" / 25cm x 25cm) at the desired ceiling location.
- 2. Connect Wiring:** Use the provided quick connectors to connect the indoor wires according to the wiring diagram. Refer to the diagram below for correct connections (Red for LED, Black for FAN,

White for Neutral, Green for Ground). Ensure all connections are secure and comply with local electrical codes.

3. **Attach Ducting:** Connect the 4-inch double-layer aluminum foil tube to the fan's air outlet. Secure it with clamps if necessary to ensure an airtight seal.
4. **Secure the Fan:** Fix the fan housing to the ceiling structure using the provided screws. Ensure it is securely mounted.
5. **Connect LED Light (if applicable):** If your model includes an LED light, connect the LED light connector to the fan unit.
6. **Install Grille:** Insert the fan grille into the narrow rectangular slot of the fan housing by clamping the mounting springs. Ensure the grille is flush with the ceiling.

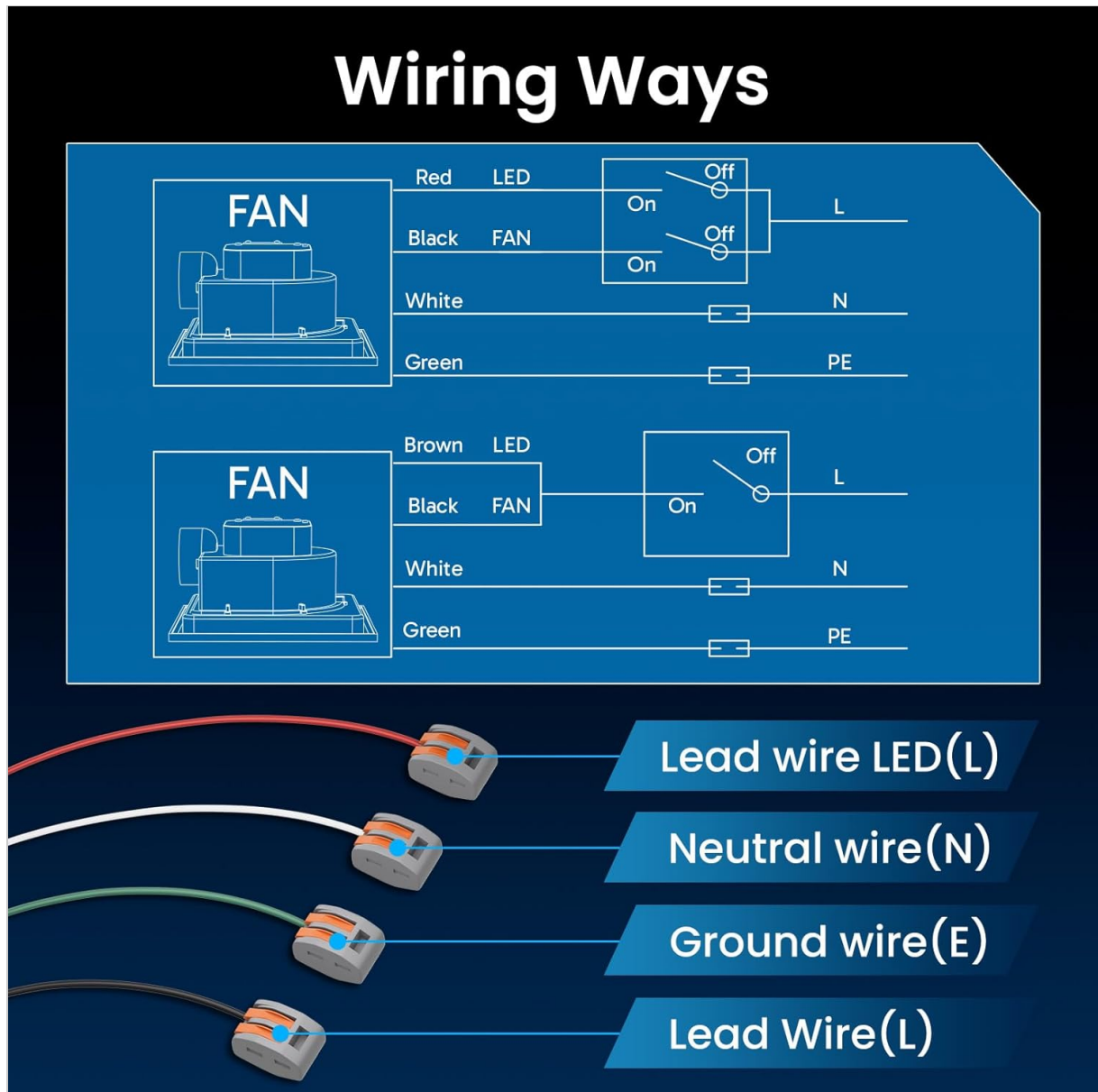


Image: This image displays the wiring diagram for the fan and LED light. It shows two wiring options for the fan and LED, and identifies the lead wire for LED (L), Neutral wire (N), Ground wire (E), and Lead Wire (L) for the fan.

6. OPERATION

Once installed and powered, the Hon&Guan Bathroom Exhaust Fan is ready for use.

Fan Operation:

The fan operates via a standard wall switch (not included). Flip the switch to turn the fan ON or OFF. The fan will begin exhausting air immediately.

Adjusting LED Light Color Temperature:

The integrated LED light offers three color temperature settings: 3000K (Warm White), 4500K (Daylight), and 6500K (Cool White). To cycle through these settings, use the designated light switch (not included). Each toggle of the switch will change the color temperature. The fan features a memory function, which will recall the last used light setting when turned back on.



Image: This image demonstrates the three color lighting models available with the integrated adjustable LED light: 6000K Bright, 4500K Natural, and 3000K Warm, showcasing how the light changes the ambiance of a bathroom.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your exhaust fan.

Cleaning the Grille:

- Disconnect power to the fan at the circuit breaker.

- Carefully remove the fan grille by gently pulling down on the mounting springs.
- Wash the grille with a mild detergent and warm water. Rinse thoroughly and allow it to dry completely before reinstallation.
- Wipe the exterior of the fan housing with a damp cloth. Do not allow water to enter the motor or electrical components.
- Reinstall the grille by pushing it back into place until the springs secure it.

Motor and Fan Blade Cleaning:

Periodically, the motor and fan blades may require cleaning. This should only be performed by a qualified technician or experienced individual after ensuring power is completely disconnected.

- Remove the grille as described above.
- Carefully clean the fan blades and motor housing with a soft cloth or brush. Avoid using abrasive cleaners or solvents.
- Ensure no debris obstructs the fan blades or motor.
- Reassemble the fan components and restore power.

8. TROUBLESHOOTING

If you experience issues with your Hon&Guan 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. Thermal overload protector tripped.	Check circuit breaker. Verify all wiring connections are secure (ensure power is off). Allow motor to cool down; it should reset automatically.
Light does not turn on.	No power to light. Loose LED connector.	Check light switch and circuit breaker. Ensure LED connector is properly seated (ensure power is off).
Fan is noisy.	Loose mounting. Debris in fan blades. Ducting obstruction.	Ensure fan is securely mounted. Clean fan blades (ensure power is off). Check ductwork for blockages.
Poor air exhaust.	Ducting obstruction. Improper duct size. Fan blades are dirty.	Check ductwork for blockages. Ensure 4-inch ducting is used. Clean fan blades (ensure power is off).
Light color does not change.	Switching too quickly. Faulty light module.	Toggle the light switch slowly to cycle through colors. Contact customer support if issue persists.

If the problem persists after attempting these solutions, please contact Hon&Guan customer support.

9. WARRANTY AND SUPPORT

Hon&Guan stands behind the quality of its products.

Warranty:

This product comes with a **365-day quality warranty** from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use. It does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications.

Customer Support:

For any questions, technical assistance, or warranty claims, please contact our customer support team. We aim to provide a response within **12 hours**.

You can reach us via:

- **Email:** support@honguan.com (Example)
- **Website:** Visit the [Hon&Guan Store on Amazon](#) for more information and contact options.