esm Version 1.0

WN1 WhiteNoise Generator

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1. Introduction

Welcome to the **WN1 White Noise Generator** module! Thank you for choosing this module for your synthesizer setup. This manual will guide you through the setup, operation, and maintenance of your new module to ensure optimal performance and longevity.

2. Safety Information

- Read this manual carefully before using the module.
- Do not expose the module to moisture, heat, or direct sunlight.
- Ensure the correct power supply connections to avoid damage.
- Handle with care to avoid damage to internal components.
- Keep out of reach of children.

3. Package Contents

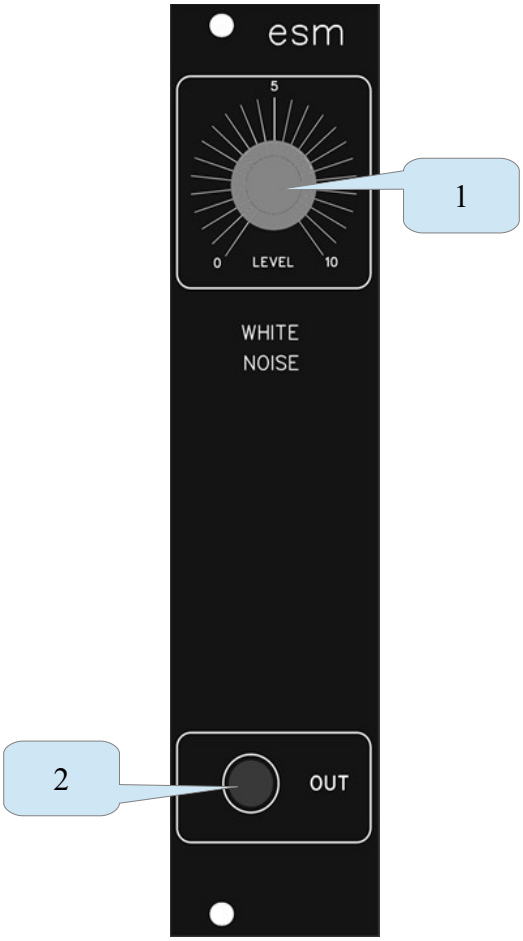
Upon opening the package, please check that the following items are included:

- **White Noise WN1 Module**
- **Power Cable**
- **Mounting Screws**
- **User Manual**

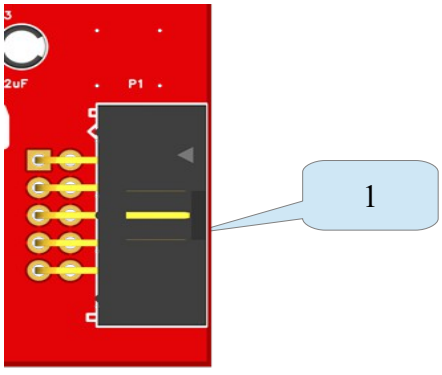
If any items are missing or damaged, contact us immediately.

4. Device Overview

Front Panel



- **1-Out Level** – Adjust amplitude level.
- **2-Noise Out** – Outputs the signal.
- **Rear Panel**



1-IDC Power Connector – For connecting to the Eurorack power bus.

- **5. Setup Instructions**

1. Turn off your synthesizer or power supply.
2. Connect the module to the power bus using the included power cable.
3. Secure the module into your Eurorack case using the provided screws.
4. Double-check all connections before turning the power back on.
5. **6. Operating Instructions**
6. **Basic Operation:**

1. Connect the output 2 to your filter or amplifier signal input.
2. Use the **Level** knob 1 to adjust the output level.

White Noise Generator – Tips for Use

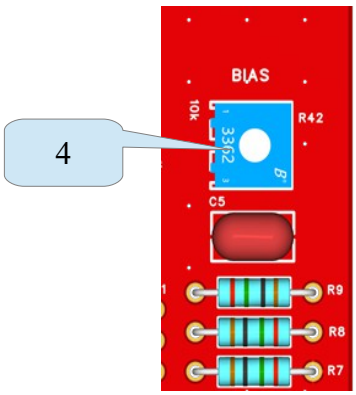
1. **Filtering & Sound Shaping:**
   - Connect the white noise generator to your **filter input**.
   - Experiment with different **cutoff** and **resonance** settings to shape the noise into various textures.
   - A **low-pass filter** can create smooth, rumbling sounds, while a **high-pass filter** can produce airy or hissing effects.
2. **Envelope Modulation:**
   - Use different **envelope generator** settings on your **filter and amplifier** to control the attack, decay, and sustain of the sound.
   - Fast attack and decay can create short, percussive bursts.
   - Slow attack and release can generate **wave-like** or **windy** atmospheric effects.
3. **Creating Natural Sounds:**
   - **Sea Waves:** Use a low-pass filter with **slow modulation** for a deep, rolling effect.
   - **Wind Sounds:** Apply a high-pass filter and gently modulate the cutoff frequency.
   - **Percussive Hits:** Shape short bursts with an **ADSR envelope** controlling the amplifier.
4. **Layering & Effects:**
   - Combine white noise with **reverb** and **delay** for a more immersive ambient effect.
   - Use **LFOs** to dynamically modulate filter cutoff, creating evolving textures.
   - Blend white noise with **pitched oscillators** for snare drum synthesis or other rhythmic elements.

• 7. Maintenance and Cleaning

Clean the front panel with a soft, dry cloth.
Avoid using harsh chemicals or abrasive materials.
Regularly inspect power connections for dust or debris.
Store the module in a cool, dry place when not in use.

8. Troubleshooting

No output	Incorrect power connection	Check power cable and connection
High-pitched noise or distortion	Signal gain to high	Adjust 4 BIAS trimppot 42



9. Technical Specifications

3. **Output Voltage:** 0V to +5V
4. **Power Consumption:** 100mA
5. **Dimensions:** 4HP Eurorack
