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› **GRAUGEAR M.2 2280 NVMe SATA SSD Heatsink for PlayStation 5 and PC (Model G-PS5HS02) Instruction Manual**

GRAUGEAR G-PS5HS02

GRAUGEAR M.2 2280 NVMe SATA SSD Heatsink

Model: G-PS5HS02

Instruction Manual

1. PRODUCT OVERVIEW

The GRAUGEAR G-PS5HS02 is an aluminum alloy heatsink designed to enhance the thermal performance of M.2 2280 NVMe and SATA SSDs. It is compatible with both PlayStation 5 consoles and personal computers, effectively reducing SSD operating temperatures by up to 20°C. This helps maintain optimal performance and prolong the lifespan of your SSD.



Image 1.1: The GRAUGEAR G-PS5HS02 heatsink installed in a PlayStation 5 console, demonstrating its compact and effective design for memory expansion.

2. PACKAGE CONTENTS

Please verify that all components are present in the package:

- 1 x GRAUGEAR G-PS5HS02 Heatsink
- 2 x Silicone Thermal Pads
- 1 x SSD Mounting Screw
- 1 x Screwdriver
- 1 x User Manual
- 1 x Guarantee Card



Image 2.1: All items included in the GRAUGEAR G-PS5HS02 heatsink kit, laid out for inspection.

3. SETUP AND INSTALLATION

Follow these steps to install the GRAUGEAR G-PS5HS02 heatsink onto your M.2 2280 SSD:

- 1. Prepare the SSD:** Carefully remove any existing labels or stickers from your M.2 2280 SSD to ensure proper contact with the thermal pads.
- 2. Apply Thermal Pads:** Peel off the protective films from both sides of the two silicone thermal pads. Place one thermal pad on the top surface of the SSD and the other on the bottom surface. Ensure they cover the main components of the SSD.
- 3. Attach Heatsink:** Gently place the GRAUGEAR heatsink onto the SSD, aligning it so that the thermal pads make full contact with both the SSD and the heatsink. The heatsink is designed with an aluminum groove structure for optimal heat transfer.
- 4. Secure the Assembly:** Insert the SSD with the attached heatsink into the M.2 slot of your PlayStation 5 or PC motherboard. Use the provided SSD mounting screw and screwdriver to secure the SSD in place.

Parts

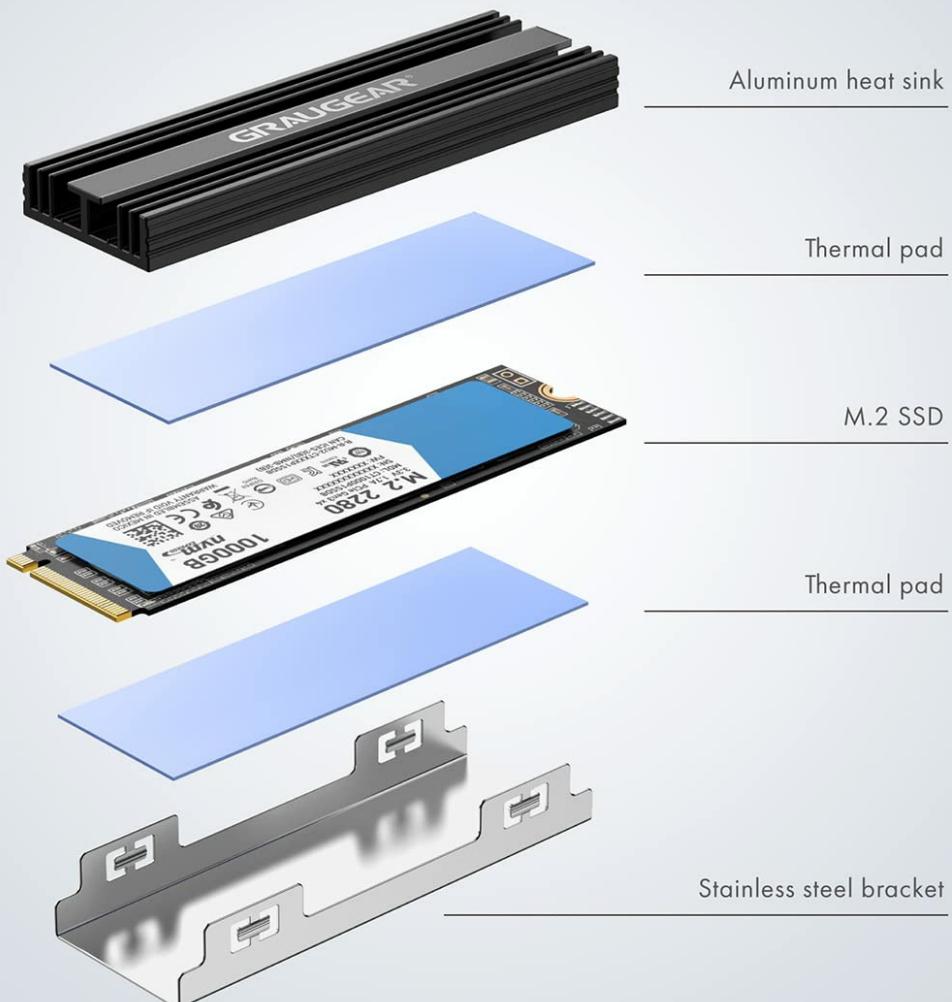


Image 3.1: Exploded diagram showing the assembly order of the heatsink, thermal pads, and M.2 SSD.

Easy to Install

Precisely designed to match built-in screw hole

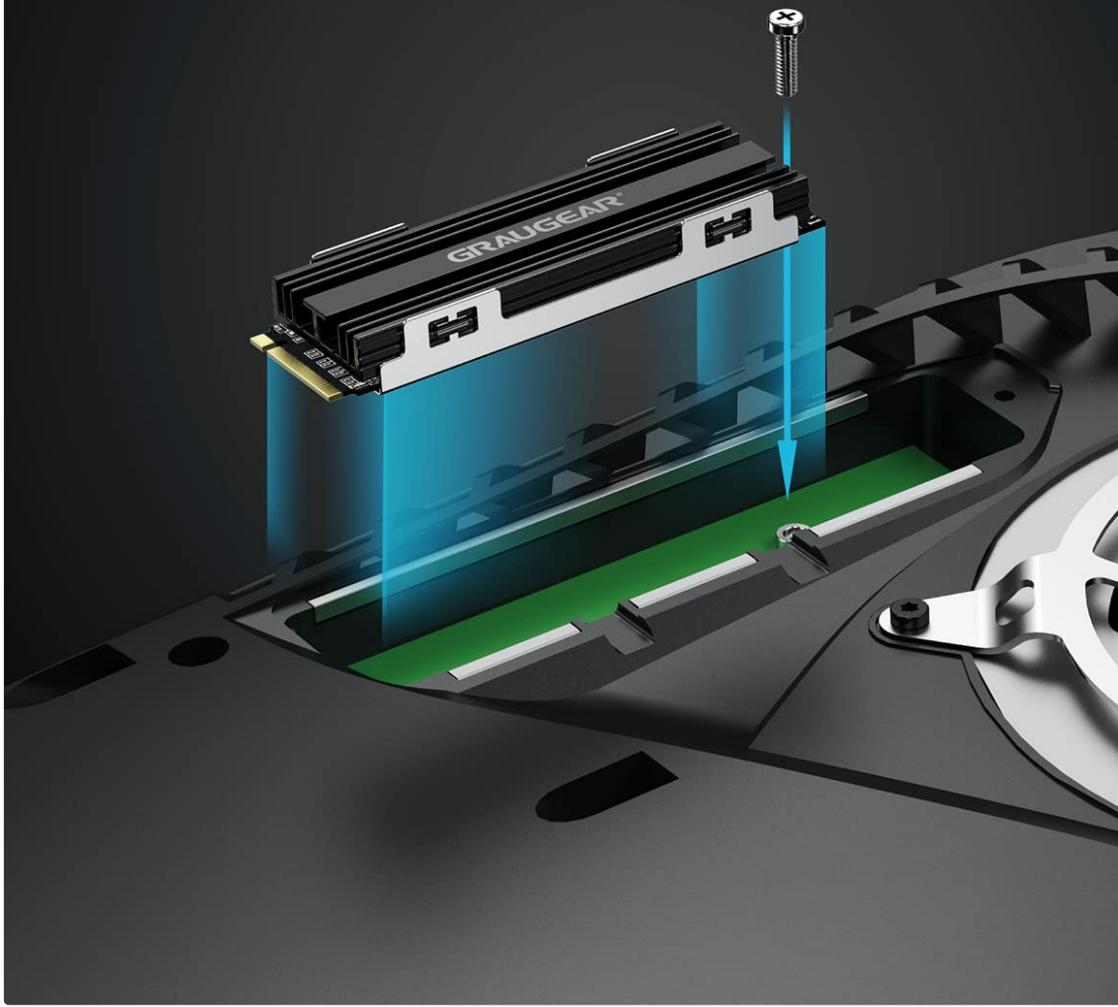


Image 3.2: Visual guide for installing the heatsink and SSD into the designated slot, highlighting the precise fit.

Installation Video Guide

Your browser does not support the video tag.

Video 3.1: An official GRAUGEAR video demonstrating the step-by-step installation process of the M.2 SSD heatsink.

4. OPERATING PRINCIPLES

The GRAUGEAR G-PS5HS02 heatsink operates passively, utilizing its aluminum alloy plate-fin design to maximize surface area for heat dissipation. Heat generated by the M.2 SSD is transferred through the thermal pads to the heatsink, which then releases the heat into the surrounding air. This process effectively lowers the SSD's operating temperature, preventing thermal throttling and ensuring consistent high performance.

Cool Down 10-20°C

Aluminum heatsink for M.2 SSD cooling

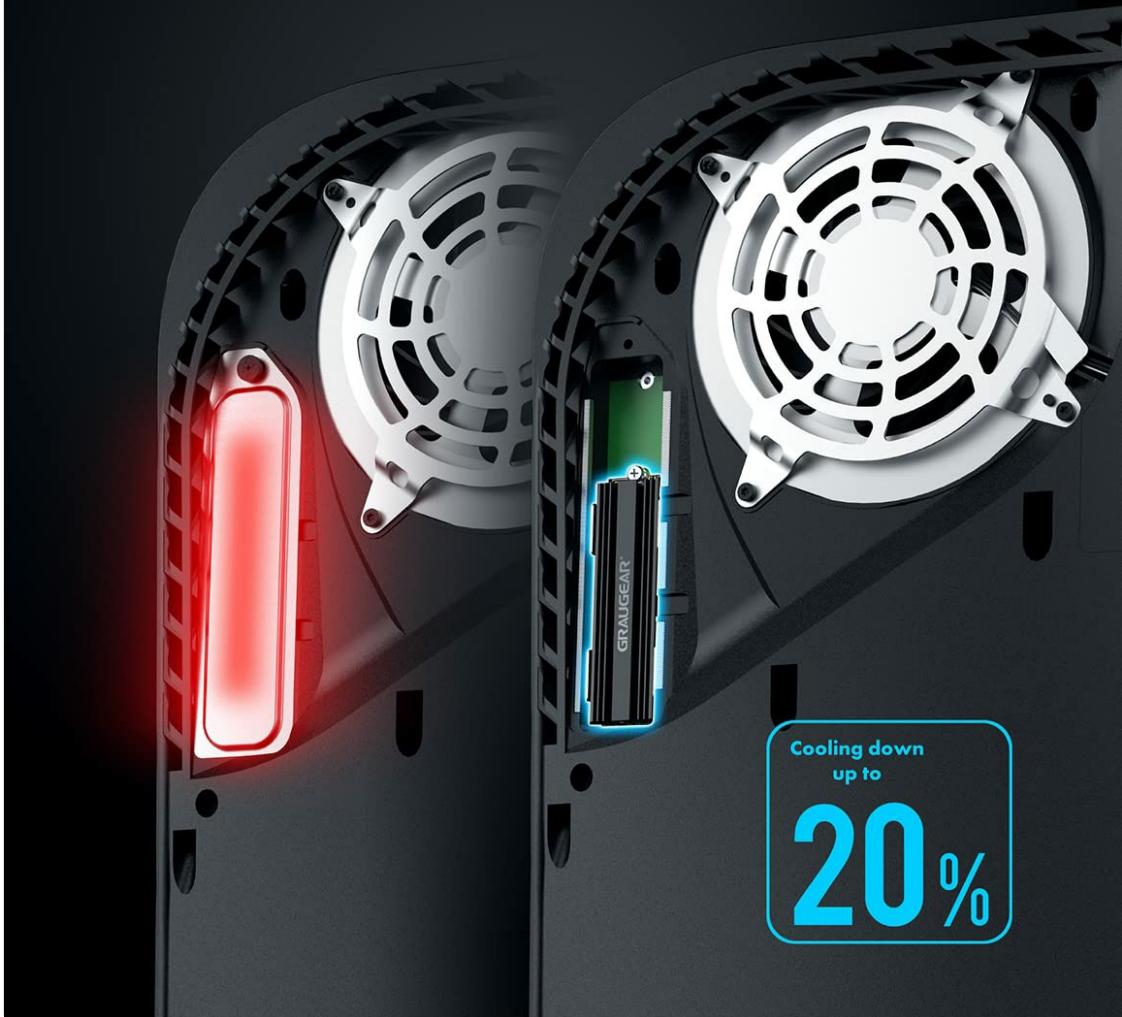


Image 4.1: Visual representation of temperature reduction with the GRAUGEAR heatsink, illustrating improved cooling efficiency.

Aluminum Groove design

For high performance M.2 SSDs



Image 4.2: Illustration of the aluminum groove design facilitating airflow and heat transfer away from the M.2 SSD.

5. MAINTENANCE

The GRAUGEAR G-PS5HS02 heatsink requires minimal maintenance. Periodically, inspect the heatsink for dust accumulation. If dust is present, gently clean it using a soft brush or compressed air to ensure optimal airflow and heat dissipation. Avoid using liquid cleaners directly on the heatsink or SSD.

6. TROUBLESHOOTING

If you experience issues after installing the heatsink, consider the following:

- **SSD Not Detected:** Ensure the M.2 SSD is fully seated in its slot and the mounting screw is securely fastened.

- Overheating Concerns:** Verify that the thermal pads are correctly applied and making full contact with both the SSD and the heatsink. Ensure there is adequate airflow within your system's chassis or PlayStation 5.
- Physical Damage:** Inspect the heatsink and SSD for any visible damage. If damage is found, contact customer support.

7. SPECIFICATIONS

Feature	Detail
Brand	GRAUGEAR
Model Number	G-PS5HS02
Material	Aluminum Alloy
Compatibility	M.2 2280 NVMe/SATA SSDs, PlayStation 5, PC
Dimensions (L x W x H)	2.87" x 0.91" x 0.39" (73mm x 23mm x 10mm)
Item Weight	23 Grams
Mounting Type	Chassis Mount

8. WARRANTY AND SUPPORT

GRAUGEAR products come with a standard manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please refer to the included Guarantee Card or visit the official GRAUGEAR website: www.graugear.de.