

## GRAUGEAR G-PS5HS04

# GRAUGEAR PS5 Pro/Slim M.2 SSD Heatsink with Heat Pipe Instruction Manual

Model: G-PS5HS04

### 1. PRODUCT OVERVIEW

The GRAUGEAR M.2 SSD Heatsink with Heat Pipe is specifically designed to enhance the cooling performance of NVMe M.2 SSDs installed in PlayStation 5 Pro and PlayStation 5 Slim consoles. This integrated cooling solution features a copper heat pipe and high-density aluminum fins to efficiently dissipate heat, ensuring stable and optimal SSD performance during intense gaming sessions.

# Designed for PS5 Pro / Slim

Heat Pipe heatsink for M.2 SSD cooling



Image: GRAUGEAR PS5 Pro/Slim M.2 SSD Heatsink with Heat Pipe, showing its design for M.2 SSD cooling.

## Key Features:

- **Custom Design for PS5 Pro/Slim:** Perfectly fits the internal M.2 SSD slot of PS5 Pro and PS5 Slim consoles for easy installation without console modification.
- **Hybrid Cooling System (Copper + Aluminum):** Features a high-performance copper heat pipe for rapid heat transfer and high-density aluminum fins for efficient heat dissipation, keeping the SSD cool under heavy loads.
- **Optimized Gaming Stability and Speed:** Reduces SSD temperature by up to 30°C, maintaining optimal read/write speeds and mitigating the risk of thermal throttling during demanding game sessions.
- **Integrated Design for Superior Efficiency:** Unlike separate heatsinks, this all-in-one structure ensures direct thermal conduction from the SSD to the fins, achieving faster and more stable heat exhaust.
- **Complete Kit, Simple Setup:** Includes high-quality thermal pads and screw set. Easy to install; no special tools or modifications required. Plug and play functionality.

## 2. PACKAGE CONTENTS

Please verify that all items are present and in good condition upon opening the package.

# Package Contents



- 1 G-PS5HS05+   2 Thermal Pad (T=1.0mm)   3 Thermal Pad (T=1.5mm)   4 EVA Pad  
5 SSD mounting screw   6 Screwdriver   7 User Manual   8 Service Card

Image: Diagram showing the contents of the GRAUGEAR PS5 Pro/Slim M.2 SSD Heatsink package, including the heatsink, thermal pads, EVA pad, SSD mounting screw, screwdriver, user manual, and service card.

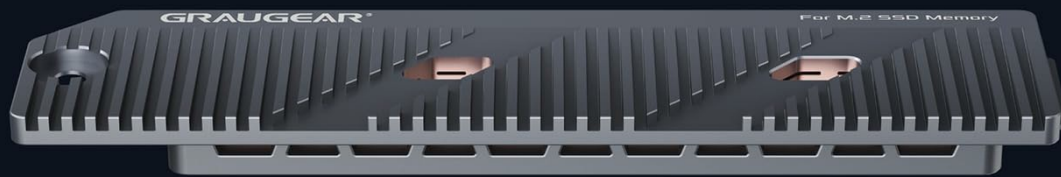
- GRAUGEAR G-PS5HS04 Heatsink Unit
- Thermal Pad (T=1.0mm, 4.8W/m-k)
- Thermal Pad (T=1.5mm, 3.6W/m-k)
- EVA Pad
- SSD Mounting Screw
- Screwdriver
- User Manual
- Service Card

## 3. COMPATIBILITY

This heatsink is compatible with single-sided and double-sided M.2 NVMe SSDs in sizes 2230, 2242, 2260, 2280, and 22110.

# Compatibility

Compatible with Single / Double sided M.2 NVMe SSD



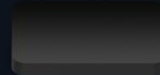
Thermal Pad



M.2 NVMe SSD  
(SSD not included)



EVA Pad



Supports M.2 NVMe SSDs in sizes  
2230, 2242, 2260, 2280 and 22110



If the SSD comes with a pre-installed  
heatsink (regardless of thickness),  
it must be removed before installation.

Image: Diagram illustrating compatibility with various M.2 NVMe SSD sizes and highlighting the need to remove any pre-installed heatsinks from the SSD before installation.

**Important:** This heatsink is designed for the PlayStation 5 Pro and PlayStation 5 Slim consoles. It is **NOT** compatible with the original PlayStation 5 (CFI-1000 / CFI-1100 / CFI-1200 models).

# Compatible with PS5 Pro/Slim Console

## Not Available for Original PS5 Console



### Original PS5

Disc Edition  
Digital Edition

CFI-1000 / CFI-1100 / CFI-1200



### PS5 Slim

Disc Edition  
Digital Edition

CFI-2000  
CFI-2xxx



### PS5 Pro

Disc Edition  
Digital Edition

CFI-7000

Image: Visual guide showing compatibility with PS5 Slim (CFI-2000 / CFI-2xxx) and PS5 Pro (CFI-7000) consoles, and incompatibility with the original PS5 (CFI-1000 / CFI-1100 / CFI-1200).

If your M.2 SSD comes with a pre-installed heatsink, it must be removed before installing the GRAUGEAR heatsink to ensure proper contact and cooling efficiency.

## 4. INSTALLATION GUIDE

Follow these steps carefully to install your GRAUGEAR M.2 SSD heatsink into your PlayStation 5 Pro or Slim console.

### Video Installation Guide:

Video: GRAUGEAR PS5 M.2 2280 NVMe SSD Heatsink installation guide, demonstrating the unboxing and step-by-step assembly process.

Video: GRAUGEAR PS5 Pro/Slim M.2 2280 NVMe SSD Heatsink installation guide, showing the process of attaching the heatsink to the SSD and installing it into the console.

### Step-by-Step Installation:

#### 1. Prepare your PS5 Console:



- Power off your PlayStation 5 console completely and disconnect all cables.
- Place the console on a clean, flat surface.
- Carefully remove the faceplate of your PS5 Pro or PS5 Slim console to access the M.2 SSD expansion slot.

## 2. Prepare the M.2 SSD:

- If your M.2 SSD has a pre-installed heatsink, remove it.
- Place the supportive EVA Pad into the M.2 NVMe SSD slot on the console.
- Insert your M.2 NVMe SSD into the SSD slot of the PS5 and fix it with the provided screw.

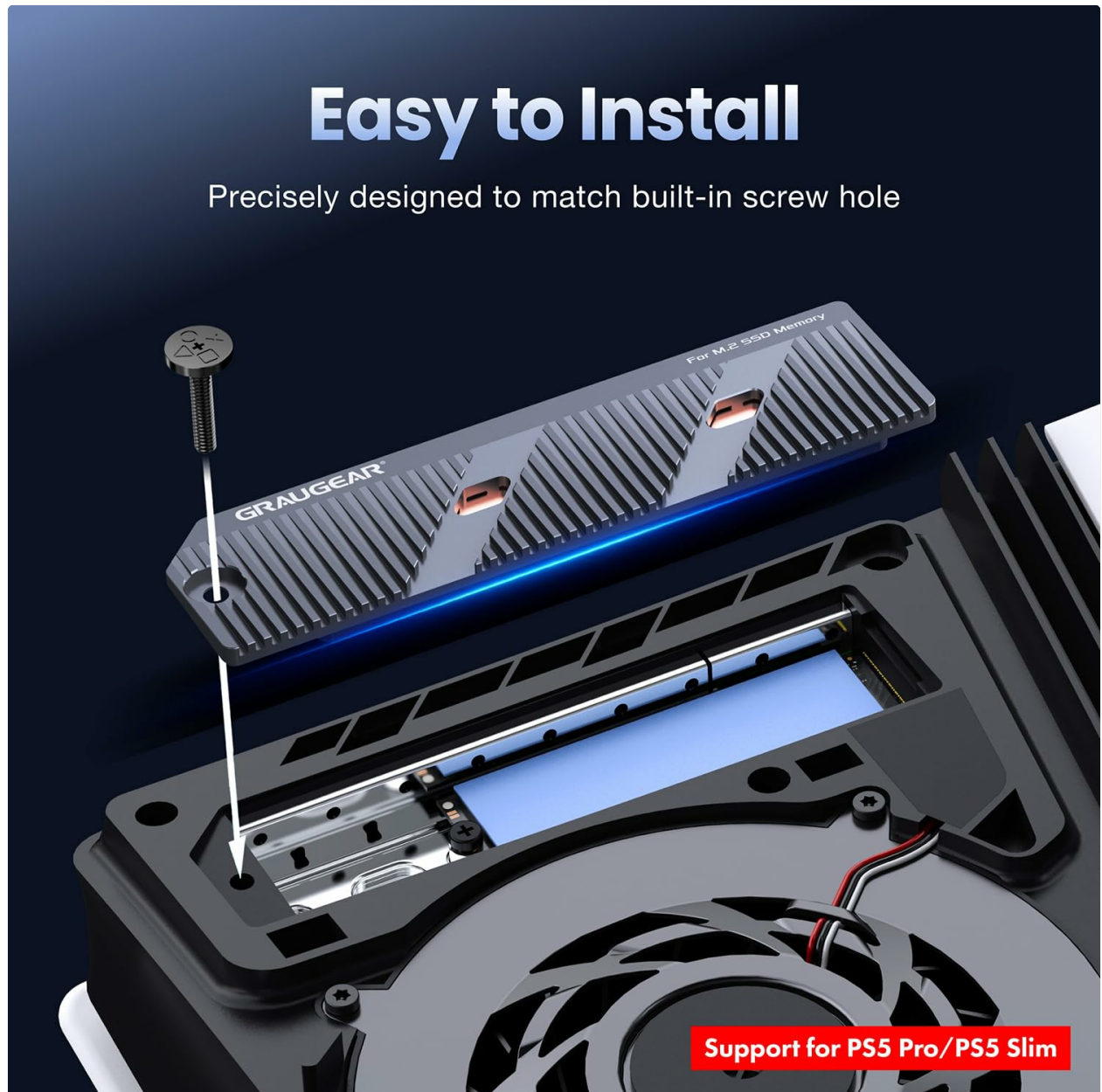


Image: Step-by-step visual guide for installing the M.2 SSD into the PS5 slot, including placing the EVA pad and securing the SSD.

## 3. Attach the Thermal Pad:

- Select the appropriate thermal pad (1.0mm or 1.5mm) based on your SSD's thickness.
- Carefully peel off the protective films from both sides of the thermal pad.
- Attach the thermal pad directly onto the M.2 SSD, ensuring full coverage.

## 4. Install the Heatsink:

- Align the GRAUGEAR heatsink (G-PS5HS04) over the SSD and thermal pad.
- Gently press down to ensure good contact between the heatsink, thermal pad, and SSD.

- Secure the heatsink unit into the PS5 using the original screw.

#### 5. Reassemble the Console:

- Replace the PS5 console faceplate, ensuring it clicks securely into place.
- Reconnect all cables and power on your console.

## 5. OPERATING INSTRUCTIONS

Once installed, the GRAUGEAR M.2 SSD heatsink operates passively, continuously working to dissipate heat from your NVMe SSD. No additional software or configuration is required.

### Cooling Performance:

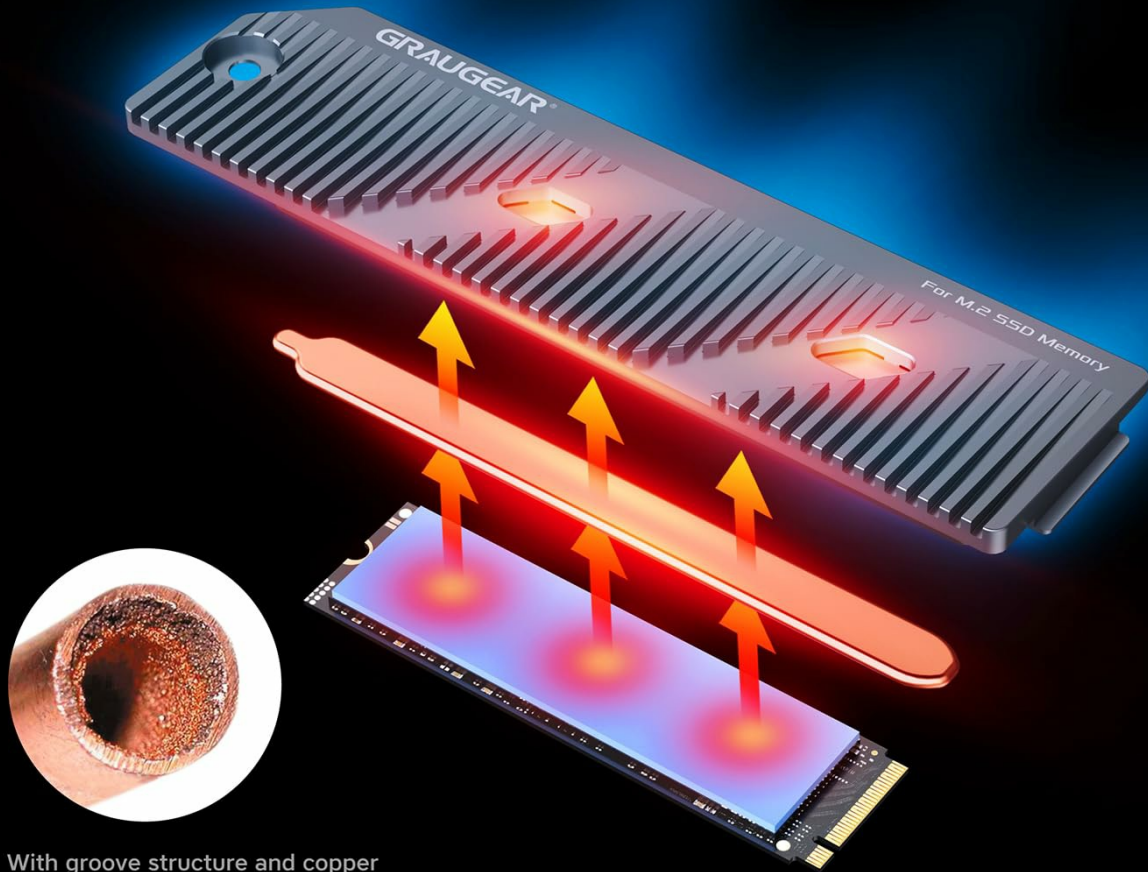
The hybrid design, combining a copper heat pipe and aluminum fins, maximizes heat transfer and airflow, leading to a significant reduction in SSD operating temperatures (up to 30°C). This ensures consistent high performance and extends the lifespan of your SSD.



Image: Illustration demonstrating the heatsink's ability to cool down the SSD by 15-25°C, preventing thermal throttling and maximizing performance.

# Direct Contact with Heat Pipe

Seamlessly attached to the SSD,  
quickly conduct the heat to the aluminum structure.



With groove structure and copper  
powder inside, conducting heat more efficiently

Image: Detailed view of the direct contact heat pipe mechanism, showing how heat is efficiently transferred from the SSD to the aluminum structure through a groove structure and copper powder inside the heat pipe.



# Revolutionary Cooling

Aluminium heatsink dissipates the heat, and the PS5 Pro/PS5 Slim cooling system ensure fresh air flows over the heatsink to further improve cooling

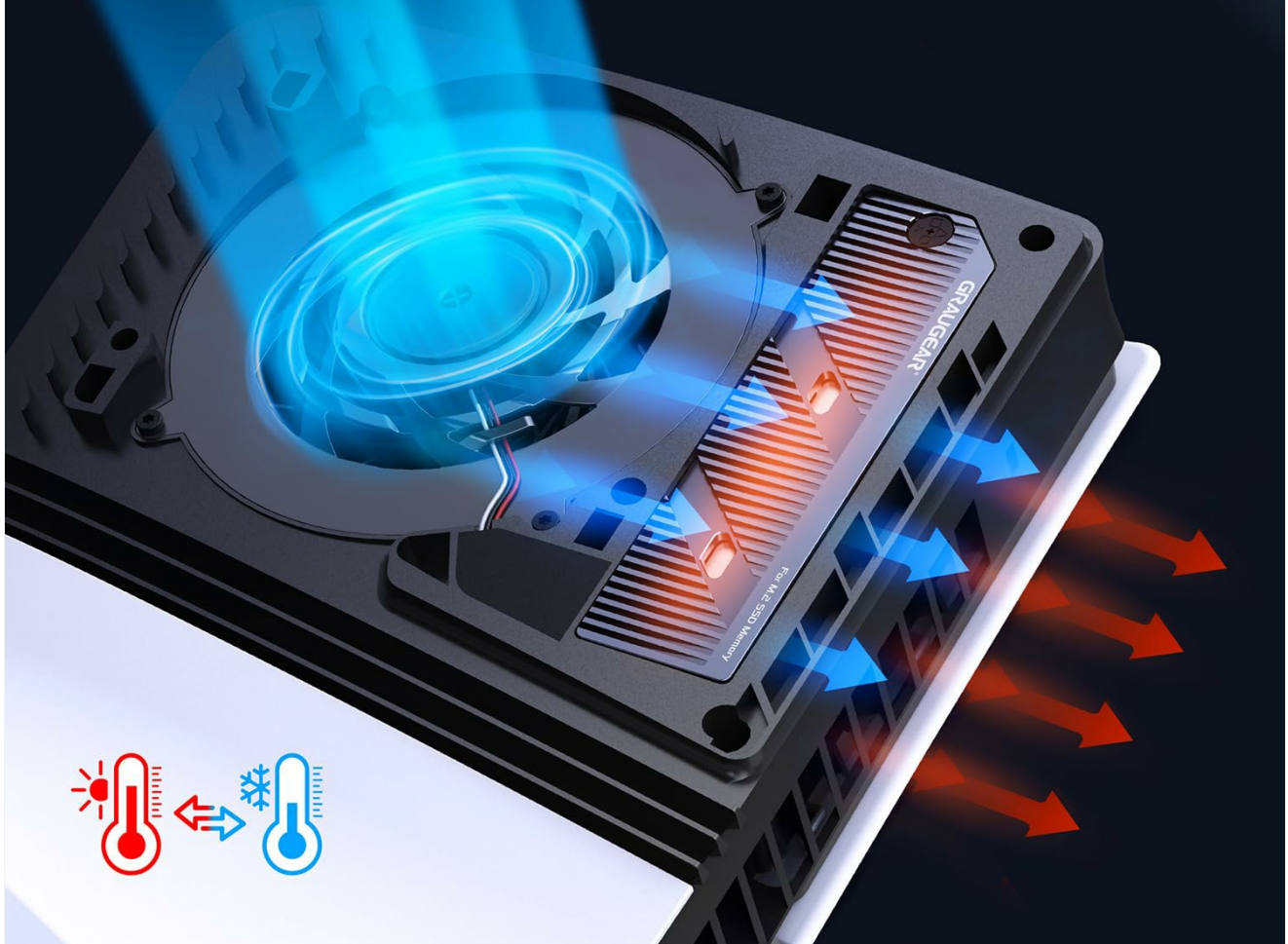


Image: Depiction of revolutionary cooling, where the aluminum heatsink dissipates heat and the PS5 Pro/PS5 Slim cooling system ensures fresh airflow over the heatsink for improved cooling.

## 6. MAINTENANCE

To ensure optimal performance and longevity of your GRAUGEAR heatsink and M.2 SSD, follow these simple maintenance guidelines:

- **Regular Cleaning:** Periodically clean the exterior of your PS5 console and the heatsink's exposed fins to prevent dust buildup, which can impede airflow and reduce cooling efficiency. Use a soft brush or compressed air.
- **Avoid Obstructions:** Ensure that the ventilation areas of your PS5 console are not blocked by objects, as this can restrict airflow to the heatsink.
- **Thermal Pad Integrity:** The thermal pads are designed for long-term use. However, if you ever need to remove and reinstall the heatsink, it is recommended to replace the thermal pads to ensure optimal thermal contact.

## 7. TROUBLESHOOTING

If you encounter any issues with your GRAUGEAR M.2 SSD heatsink, please refer to the following common troubleshooting

steps:

- **SSD Not Recognized:**
  - Ensure the M.2 SSD is fully seated in its slot.
  - Verify that the SSD mounting screw is securely fastened.
  - Check PS5 system settings to ensure the SSD is properly formatted and recognized.
- **Overheating Concerns:**
  - Confirm that the thermal pads are correctly applied and making full contact with both the SSD and the heatsink.
  - Ensure no pre-installed heatsink was left on the M.2 SSD.
  - Check for any obstructions around the PS5's ventilation ports.
  - Ensure the console is in a well-ventilated area.
- **Heatsink Not Fitting Properly:**
  - Double-check that you have a PS5 Pro or PS5 Slim model. This heatsink is not compatible with the original PS5.
  - Ensure the SSD is correctly positioned in the slot before attempting to install the heatsink.

If these steps do not resolve your issue, please contact GRAUGEAR customer support for further assistance.

## 8. SPECIFICATIONS

Feature	Description
Manufacturer	GRAUGEAR
Part Number	G-PS5HS04
Product Weight	100 g
Product Dimensions (LxWxH)	12.7 x 3.3 x 1.02 cm
Color	Space Gray
Style	PS5 Pro/PS5 Slim
Material	Copper + Aluminum
Heatsink Compatibility	PS5 Pro/Slim M.2 NVMe SSD
Mounting Type	Panel Mount

## 9. WARRANTY AND SUPPORT

GRAUGEAR products are designed for reliability and performance. This product comes with a standard warranty against manufacturing defects. Please refer to the included Service Card for specific warranty terms and conditions.

### Customer Support:

For technical support, warranty claims, or any questions regarding your GRAUGEAR M.2 SSD heatsink, please contact our customer service team:

- **Email:** [support@graugear.de](mailto:support@graugear.de)
- **Website:** [www.graugear.de](http://www.graugear.de)

Please have your product model (G-PS5HS04) and purchase information ready when contacting support.