Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Xigmatek HDT-S1283V

Xigmatek HDT-S1283V Dark Knight 120mm PWM CPU Cooler Instruction Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Xigmatek HDT-S1283V Dark Knight 120mm PWM CPU Cooler. Please read this manual thoroughly before proceeding with installation to ensure proper function and to prevent damage to your components. Keep this manual for future reference.

2. Product Overview

The Xigmatek HDT-S1283V Dark Knight is a high-performance CPU cooler designed to efficiently dissipate heat from your desktop processor. It features Heat-Pipe Direct Touch (HDT) technology, where three 8mm copper heat pipes directly contact the CPU for improved thermal transfer. The cooler is equipped with a 120mm PWM fan, which includes noise-dampening rubber mounts to reduce vibration and noise. The fan also features 4 white LEDs for visual enhancement. The heatsink fins and heat pipes are finished in piano black for a sleek appearance.



Figure 2.1: Xigmatek HDT-S1283V Dark Knight CPU Cooler with 120mm PWM fan.

Key Features:

- Heat-Pipe Direct Touch (HDT) technology with three 8mm copper heat pipes.
- 120mm PWM fan for optimized airflow and noise control.
- Integrated noise-dampening rubber fan mounts.
- Piano black finish on fins and heat pipes.
- 4 white LEDs on the fan.
- Universal compatibility for various Intel and AMD sockets.

3. Package Contents

Upon unpacking, please verify that all components are present and undamaged. The package should contain:

- Xigmatek HDT-S1283V Dark Knight CPU Cooler assembly (heatsink with pre-installed 120mm PWM fan)
- Mounting hardware for Intel Socket 775 / Core i7 (LGA1366)
- Mounting hardware for AMD Socket K8 (754/939/940) / AM2 / AM2+ / AM3
- Thermal paste
- User Manual (this document)

Note: Specific mounting brackets may vary slightly based on the revision. Refer to the included hardware for exact components.

4. Setup and Installation

Before beginning installation, ensure your computer is powered off and unplugged from the wall outlet. It is recommended to work on a clean, static-free surface.

4.1. Preparation

1. Remove your motherboard from the PC case if necessary to access the CPU socket area.
2. Clean the CPU surface thoroughly with isopropyl alcohol to remove any old thermal paste or residue. Ensure the surface is dry before proceeding.
3. Identify the correct mounting hardware for your CPU socket type (Intel LGA775/1366 or AMD K8/AM2/AM3).

4.2. Applying Thermal Paste

Apply a small amount of thermal paste (approximately the size of a pea) to the center of the CPU's integrated heat spreader (IHS). Do not spread the paste manually; the pressure from the cooler will distribute it evenly.

4.3. Cooler Mounting

Follow the specific instructions for your CPU socket type:

For Intel Sockets (LGA775/1366):

1. Attach the appropriate Intel mounting brackets to the base of the cooler using the provided screws.
2. Position the cooler over the CPU, aligning the mounting holes on the brackets with the holes around the CPU socket on the motherboard.
3. Secure the cooler by tightening the screws in a diagonal pattern (e.g., top-left, bottom-right, top-right, bottom-left) until snug. Do not overtighten.

For AMD Sockets (K8/AM2/AM3):

1. Attach the appropriate AMD mounting clips to the base of the cooler.
2. Hook one side of the cooler's mounting clip onto the retention bracket on your motherboard.
3. Apply gentle, even pressure to the opposite side of the cooler and hook the second clip onto the motherboard retention bracket. Ensure the cooler is firmly seated and does not wobble.

4.4. Fan Connection

Connect the 4-pin PWM fan cable from the cooler to the 'CPU_FAN' header on your motherboard. Ensure the connector is fully seated.

5. Operating Instructions

Once installed, the Xigmatek HDT-S1283V Dark Knight CPU Cooler operates automatically. The PWM (Pulse Width Modulation) function allows your motherboard to control the fan speed based on CPU temperature, providing optimal cooling performance while minimizing noise.

- Ensure adequate airflow within your PC case by maintaining proper cable management and ensuring case fans are correctly oriented.
- Monitor CPU temperatures using motherboard monitoring software to confirm effective cooling, especially during high-load tasks.

6. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your CPU cooler.

- **Dust Removal:** Periodically (every 3-6 months, or more frequently in dusty environments) power off your computer and use compressed air to blow dust out of the heatsink fins and fan blades. Hold the fan blades gently to prevent them from spinning rapidly during cleaning, which can damage the fan motor.
- **Fan Inspection:** Check the fan for any signs of wear, unusual noise, or reduced rotational speed. If the fan is failing, it may need to be replaced.
- **Thermal Paste:** While not typically required frequently, if you remove the cooler for any reason, you must clean off the old thermal paste from both the CPU and cooler base and apply new thermal paste before reinstallation.

7. Troubleshooting

If you encounter issues with your CPU cooler, refer to the following common problems and solutions:

- **High CPU Temperatures:**
  - Ensure the cooler is securely mounted and making full contact with the CPU.
  - Verify that thermal paste was applied correctly and evenly.
  - Check that the fan is spinning and connected to the 'CPU_FAN' header.
  - Clean any dust accumulation from the heatsink and fan.
  - Ensure adequate case airflow.
- **Fan Not Spinning:**
  - Check the 4-pin fan connection to the motherboard's 'CPU_FAN' header.
  - Verify fan settings in your motherboard's BIOS/UEFI.
  - Inspect the fan cable for damage.
- **Excessive Fan Noise:**

- Clean the fan blades and heatsink for dust.
- Ensure the fan is securely mounted and not vibrating against other components.
- Check fan settings in BIOS/UEFI; adjust fan curve if necessary.
- If noise persists and is a grinding sound, the fan bearing may be failing and require replacement.

8. Specifications

Feature	Specification
Model Number	HDT-S1283V (DARK KNIGHT-S1283V)
Brand	Xigmatek
Cooling Method	Forced Air (Heat-Pipe Direct Touch)
Fan Size	120mm
Fan Type	PWM
Maximum Rotational Speed	1800 RPM
Noise Level	30.1 dB (Max)
Power Connector Type	4-Pin
Voltage	12 Volts
Compatible Devices	Desktop
Item Weight	2.03 pounds (approx. 921g)
Package Dimensions	8.03 x 6.61 x 3.7 inches
Date First Available	January 30, 2010

9. Warranty and Support

For warranty information and technical support, please refer to the official Xigmatek website or contact your local retailer. Keep your proof of purchase for warranty claims.

For further assistance, you may visit the Xigmatek support page:www.xigmatek.com

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0027FK5XI

More documents and user manuals: **https://manuals.plus/**