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AeroCool EN55529

Aerocool X-Vision 5-Channel Fan Controller User Manual

Model: EN55529

1. INTRODUCTION

The Aerocool X-Vision is a sophisticated 5-channel fan controller designed to enhance your computer's cooling system. It provides real-time monitoring and control over fan speeds and temperatures, ensuring optimal performance and system stability. This manual provides detailed instructions for installation, operation, and maintenance of your X-Vision unit.

2. PRODUCT FEATURES

- ABS construction with a clear LCD display.
- Monitors and controls five independent fan speeds and corresponding temperatures.
- Switchable temperature display between Celsius (°C) and Fahrenheit (°F).
- Integrated overheat alarm warning system.
- LCD backlight on/off function for user preference.
- Real-time fan RPM (Revolutions Per Minute) display.
- Fan voltage display for each channel.



Figure 1: Front view of the Aerocool X-Vision fan controller, displaying its LCD screen with fan speed (RPM), temperature ($^{\circ}\text{C}/^{\circ}\text{F}$), and control buttons.

3. PACKAGE CONTENTS

Please verify that all items are present in the package:

- Aerocool X-Vision 5-Channel Fan Controller Unit
- Temperature Sensors (5x)
- Fan Extension Cables (5x)
- Mounting Screws
- User Manual (this document)



Figure 2: Rear view of the Aerocool X-Vision, illustrating the internal components and connection points for fans and temperature sensors.

4. INSTALLATION

4.1 Safety Precautions

- Ensure your computer is powered off and unplugged from the wall outlet before installation.
- Discharge any static electricity by touching a grounded metal object to prevent damage to components.
- Handle all computer components carefully to avoid physical damage.

4.2 Hardware Installation

1. Open your computer case.
2. Locate an available 5.25-inch drive bay at the front of your computer case.
3. Slide the Aerocool X-Vision unit into the chosen drive bay from the front of the case until it is flush with the bezel.
4. Secure the unit with the provided mounting screws on both sides of the drive bay.
5. Connect the 4-pin Molex power connector from your power supply to the corresponding port on the X-Vision unit.
6. Connect your case fans to the fan headers on the X-Vision unit. Each header is typically labeled for a specific channel (FAN1-FAN5).
7. Attach the temperature sensors to the components you wish to monitor (e.g., CPU heatsink, GPU, hard drive, case interior). Ensure good physical contact for accurate temperature readings.
8. Carefully route all cables to maintain good airflow within the case.
9. Close your computer case.

5. OPERATING INSTRUCTIONS

5.1 Initial Power On

After completing the installation, power on your computer. The X-Vision LCD display will illuminate, showing current fan speeds (RPM) and temperatures (°C/°F) for each connected channel.

5.2 Button Functions

- **C/F Button:** Toggles the temperature display unit between Celsius (°C) and Fahrenheit (°F).
- **Light Bulb Icon Button:** Turns the LCD backlight on or off.
- **SET RPM Button:** Used to select a fan channel and then adjust its speed. Press repeatedly to cycle through channels.
- **SET TEMP Button:** Used to select a temperature channel and then set its alarm threshold. Press repeatedly to cycle through channels.
- **VIEW Button:** Cycles through the display of different channels or modes, if applicable.
- **Rotary Knob:** Adjusts values (fan RPM, temperature alarm threshold) when in setting mode. Turn clockwise to increase, counter-clockwise to decrease.

5.3 Setting Fan Speeds

1. Press the **SET RPM** button. The display will highlight the fan channel currently being adjusted.
2. Press **SET RPM** repeatedly to cycle through the five fan channels (FAN1 to FAN5).
3. Once the desired channel is selected, rotate the **Rotary Knob** to increase or decrease the fan speed (RPM).
4. The new setting will be saved automatically after a few seconds of inactivity or by pressing another function button.

5.4 Setting Temperature Alarms

1. Press the **SET TEMP** button. The display will highlight the temperature alarm setting for the currently selected channel.
2. Press **SET TEMP** repeatedly to cycle through the five temperature channels (TEMP1 to TEMP5).
3. Once the desired channel is selected, rotate the **Rotary Knob** to set the desired temperature threshold.
4. If the monitored temperature exceeds this threshold, an audible alarm will sound, and the corresponding temperature display will flash.
5. The new setting will be saved automatically after a few seconds of inactivity or by pressing another function button.

6. MAINTENANCE

- Keep the front panel clean using a soft, dry, lint-free cloth. Avoid using abrasive cleaners or solvents, which may damage the display or finish.
- Periodically check all fan and temperature sensor connections to ensure they are secure and have not come loose.
- Ensure temperature sensors maintain good contact with the monitored components for accurate readings.
- Dust accumulation inside the computer case can significantly affect cooling performance. Clean your computer's interior regularly to maintain optimal temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is off or not illuminating.	No power connection or loose power cable.	Ensure the 4-pin Molex power connector is securely attached to both the X-Vision unit and the power supply. Check that the computer is powered on.
Fan not spinning or RPM not displayed for a channel.	Fan not connected, faulty fan, or incorrect fan type.	Check the fan connection to the X-Vision unit for the specific channel. Test the fan by connecting it directly to the motherboard or another known working power source. Ensure the fan is compatible.
Temperature reading is inaccurate or missing for a channel.	Temperature sensor not properly attached, faulty sensor, or loose cable.	Ensure the temperature sensor is making good, direct contact with the component being monitored. Check the sensor cable connection to the X-Vision unit. Replace the sensor if suspected faulty.
Overheat alarm sounds frequently.	Alarm threshold set too low or actual component overheating.	Adjust the temperature alarm threshold using the SET TEMP button to a more appropriate level. Verify system cooling and component temperatures using other monitoring software to confirm if actual overheating is occurring.

8. SPECIFICATIONS

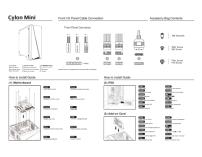
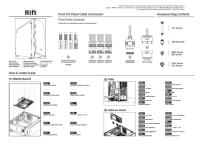
- **Model:** Aerocool X-Vision (EN55529)
- **Channels:** 5 (Independent Fan Speed & Temperature Monitoring)
- **Display:** LCD (Liquid Crystal Display)
- **Temperature Units:** Celsius (°C) / Fahrenheit (°F) selectable
- **Alarm:** Overheat Warning Alarm
- **Power Connector:** 4-pin Molex
- **Drive Bay Size:** Standard 5.25-inch
- **Material:** ABS Plastic

9. WARRANTY AND SUPPORT

Aerocool products are manufactured to high-quality standards and undergo rigorous testing. For detailed warranty information, technical support, or service inquiries, please refer to the official Aerocool website or contact your local retailer where the product was purchased. Please retain your proof of purchase for any warranty claims.

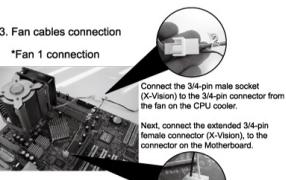
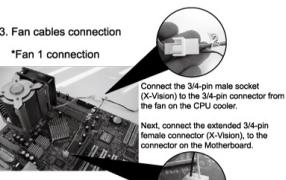
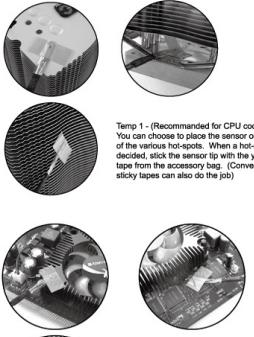
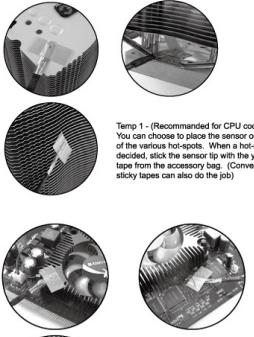
Official Website: www.aerocool.io

Related Documents - EN55529

	<p>AeroCool Cylon Mini PC Case Installation Guide Comprehensive installation guide for the AeroCool Cylon Mini PC case, covering component installation, front panel connections, and LED mode settings.</p>
	<p>AeroCool AC120 AIR Professional Gaming Chair Assembly Manual Detailed assembly instructions for the AeroCool AC120 AIR Professional Gaming Chair, including parts list and step-by-step guidance.</p>
	<p>Aerocool Rift BG Miditower Computer Case User Manual User manual for the Aerocool Rift BG Miditower computer case. This guide provides specifications, installation instructions, and support contact information for the black tempered glass PC case.</p>

 <p>BARON AeroSuede Gaming Chair</p> <p>User's Manual How to Assemble Manual del usuario Bedienungsanleitung Manual de instrucciones Manual d'utilisation Manual de utilización</p> <p>aerocool.io www.aerocool.com aerocool.it www.aerocool.it www.aerocool.com.br www.aerocool.com.cn www.aerocool.com.hk www.aerocool.com.hk www.aerocool.com.hk</p>	<p><u>AeroCool Baron AeroSuede Gaming Chair - Assembly and Warranty Manual</u></p> <p>Comprehensive assembly guide and warranty information for the AeroCool Baron AeroSuede Gaming Chair. Learn how to assemble your chair and understand the warranty terms.</p>
 <p>ROYAL Gaming Chair</p> <p>User's Manual How to Assemble Manual del usuario Bedienungsanleitung Manual de instrucciones Manual d'utilisation Manual de utilización</p> <p>Same Money. Sit Better. Pielgrana. Sintetica. Poliuretano. Poliuretano reforzado. 同等价钱，坐得更好。 www.aerocool.com aerocool.it www.aerocool.it www.aerocool.com.br www.aerocool.com.cn www.aerocool.com.hk www.aerocool.com.hk www.aerocool.com.hk</p>	<p><u>AeroCool ROYAL Gaming Chair User Manual and Assembly Guide</u></p> <p>Comprehensive user manual and assembly guide for the AeroCool ROYAL Gaming Chair, detailing parts, assembly steps, warranty, and safety information.</p>
 <p>DUKE AeroSuede Gaming Chair</p> <p>User's Manual How to Assemble Manual del usuario Bedienungsanleitung Manual de instrucciones Manual d'utilisation Manual de utilización</p> <p>aerocool.io www.aerocool.com aerocool.it www.aerocool.it www.aerocool.com.br www.aerocool.com.cn www.aerocool.com.hk www.aerocool.com.hk www.aerocool.com.hk</p>	<p><u>AeroCool DUKE AeroSuede Gaming Chair User Manual</u></p> <p>User manual and assembly guide for the AeroCool DUKE AeroSuede Gaming Chair, detailing parts, assembly steps, and warranty information.</p>

Documents - AeroCool – EN55529

<p>1. Inside this packaging</p>  <p>① X-Vision unit ② X-Vision Panel ③ Spare thermal sensor cable x 2 ④ Spare cable x 2 ⑤ Screws x 4 ⑥ Thermal sticker x 9 pcs</p> <p>Aerocool strongly recommends user to turn off the computer before changing fans.</p>	<p>2. Mounting the unit</p>  <p>1. Remove one 5.25" bay cover 2. Insert the X-Vision unit 3. Fasten with the screws provided on both sides</p>
<p>3. Fan cables connection</p> <p>*Fan 1 connection</p>  <p>Connect the 3/4-pin male socket (X-Vision) to the 3/4-pin connector from the fan on the CPU cooler. Next, connect the extended 3/4-pin female connector (X-Vision), to the connector on the Motherboard.</p> <p>*Other fans You can decide which fans inside your case are to be connected.</p>	<p>3. Fan cables connection</p> <p>*Fan 1 connection</p>  <p>Connect the 3/4-pin male socket (X-Vision) to the 3/4-pin connector from the fan on the CPU cooler. Next, connect the extended 3/4-pin female connector (X-Vision), to the connector on the Motherboard.</p> <p>*Other fans You can decide which fans inside your case are to be connected.</p>
<p>4. Thermal sensors placement</p>  <p>Temp 1 - (Recommended for CPU cooler) You can choose to place the sensor on one of the various hot-spots. When a hot-spot is decided, stick the sensor tip with the yellow tape from the accessory bag. (Conventional sticky tapes can also do the job)</p> <p>Temp 2 - (Recommended for GPU cooler)</p>	<p>4. Thermal sensors placement</p>  <p>Temp 1 - (Recommended for CPU cooler) You can choose to place the sensor on one of the various hot-spots. When a hot-spot is decided, stick the sensor tip with the yellow tape from the accessory bag. (Conventional sticky tapes can also do the job)</p> <p>Temp 2 - (Recommended for GPU cooler)</p>



Temp 2 - (Recommended for VGA cooler)
Like Temp1, you can choose to place the sensor on any hot-spot that is most approximate to the temperature in the center of the GPU.



Temp 3 - (Recommended for HDD)
Place the sensor directly on the surface of the HDD.

Temp 4 & 5 - you can choose to place the sensors in any location of your choice inside the PC case.

5. Connecting power

Power Supply → Connect the 4-pin Molex connector to the power supply.

6. View (Temp. now / Alarm temp. / Fan Voltage)

Press the "VIEW" button to switch between current temperature, alarm temperature and fan voltage readings.



7. Setting fan speed

1. Press "SET RPM", the digits on FAN1 will begin to flash.
2. Turn the knob to increase or decrease RPM (0-10000)
3. Press "SET RPM" again to proceed to set RPM on FAN2 (or if no action taken for 10 sec. it will return to normal mode and the setting will be memorized)
4. Repeat the steps until all five fan speeds are set.



Adjustable range (adjustable in 1000PM interval)

FAN1 - From full speed - 50% only (Strongly recommend for CPU cooler)

FAN2-FANS - From full speed - 50% > stop

Change to a new fan

If the fan is not within the adjustable range AFTER a new fan of different specification is installed, then the previous set value will become invalid, and the fan will operate at its full RPM (Revolution Per Minute).

Taking alarm buzzer

If alarm is triggered (due to overheating or faulty fan), press any button to disable the buzzer. However the digits will continue to flash until the problem has been solved.

8. Setting alarm temperature

1. Press "SET TEMP", the digits below FAN1 will begin to flash.
2. Turn the knob to increase or decrease temperature (20°C-90°C)
3. Press "SET TEMP" again to proceed to next temperature setting below FAN2. (or if no action taken for 10 sec. it will return to normal mode and the setting will be memorized)
4. Repeat the steps until all five temperatures are set.



Teaching alarm buzzer

If alarm is triggered (due to overheating or faulty fan), press any button to disable the buzzer. However the digits will continue to flash until the problem has been solved.

9. Celsius / Fahrenheit

Press "C/F" button to toggle Celsius or Fahrenheit.

10. Display On/OFF

Press "C/F" button for 3 sec. to turn off the LCD backlight. Press any button to turn the backlight back on. (The functions are still operational when backlight is turned off)

11. Reset to factory setting

Press "SET RPM" and "SET TEMP" together, all figures will be reset to factory setting.



12. Technical Info.

Maximum power per fan channel allowed is 8 Watts(0.66A@12V)

13. Trouble shooting

When alarm went off

-please check if the temp reading had exceeded the alarm temp. If yes, the fan will then automatically spin at maximum speed and can not be controlled by hand until the temperature has lowered, or please turn off the computer until the fan is cooler.

-please check if the fan had stopped spinning. If no, please change to a higher speed fan to cool the component more quickly. If yes, please replace with a new fan. If alarm continues to go off after changing to a new fan, then you will have to change to a fan with higher spinning rate - higher RPM, in order to cool the component more efficiently.

[pdf] User Manual

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