FATAL1TY... THE FIRST OF HIS KIND

Johnathan “Fatal1ty” Wendel is the most accomplished, professional PC Gamer in history and is the breakthrough name and face of the sport. As the world’s most famous PC gamer he spreads interest in PC gaming wherever he goes and, in the process, has become the sport’s worldwide ambassador. Wendel wants PC gaming to be considered a true sport and considers himself an “E-Sportsman”. Like any other professional athlete, he trains for hours a day and analyzes his performances by watching videos of himself in action—all with the goal of being the best in the world.

Fatal1ty is a naturally gifted athlete who competed in many sports including tennis, golf and football before devoting his full time efforts to gaming. He still uses physical training to maintain and hone his natural gifts of quick reflexes and lightning fast hand/eye coordination. Johnathan Wendel also excelled in school, gaining a 3.4 average in 2 years of college, from which he withdrew as his gaming career took off. Fatal1ty wants to communicate the picture of a well-rounded, articulate, 25 year old in order to change the image of the typical PC gamer as a desensitized geek who only spends time in front of a computer monitor.

No one has ever come close to the earnings, titles and media coverage of Fatal1ty. His record of success speaks for itself. He presently reigns as the only 5 time World Champion, winning each title in a different game, a feat never before accomplished. Wendel started professional gaming in 1999 by entering the CPL (Cyberathlete Professional League) tournament in Dallas and won $4,000 for placing third. Emerging as one of the top players in the United States, he then flew to Sweden where he competed in a tournament against the top 12 players in the world. By winning 18 straight games and losing none he took first place, becoming the number one ranked Quake III player in the world. Two months later he followed that success in Dallas by successfully defending his title as the world’s best Quake III player and winning the $40,000 grand prize. Since then Fatal1ty has traveled the globe to compete against the best in the world, winning prizes and acclaim, including the 2005 CPL World Tour Championship in New York City for a $150,000 first place finish.

From the time Fatal1ty began to realize success he has preached a doctrine of “giving back to gaming” and has convinced his business partners to do the same as part of their overall goal to position gaming in a positive light. As part of this quest he has organized events that have given away a great deal of money and prizes, including an exhibition held at The Great Wall of China for a prize of $125,000 to selected challengers who could beat him. The relationship that has been built between him and his business partners, combined with the sales of his own branded products, provides the capital and human resources needed to pull off these types of attention getting promotions.
Cautions on Use and Installation

1. By installing this product on a VGA (Video Graphics Array) card, a PCI slot adjacent to the PCIe (or AGP) slot will become unusable.
2. If this product will be installed on a recently released VGA card, please check for compatibility at Zalman's website first.
3. The product cannot be installed on Matrox VGA cards, NVIDIA PCX 5++, NVIDIA Geforce 6600 AGP Series and ATI Radeon 9550/9600 Series.
4. If the VGA card and its components interfere with the installation of this product, stop the installation, refer to the list of compatible VGA cards at Zalman’s website and install this product with one of the compatible VGA cards.
5. The use of an exhaust fan positioned on the rear side of the case is recommended for enhancement of product performance.

Disclaimer

Zalman Tech Co., Ltd. is not responsible for any damages due to external causes, including but not limited to, improper use, problems with electrical power, accident, neglect, alteration, repair, improper installation, or improper testing.

Product Features

1. Pure copper heatsink base and fins maximize cooling performance.
2. Use of two high performance heatpipes maximizes heat transfer.
3. Circular heatsink formed by radially aligned ultra-thin(0.2mm) fins minimizes airflow resistance and maximizes heat dissipation surface area for excellent cooling performance.
4. Fast 80mm red LED fan cools not only the VGA chipset and VGA RAM, but all other VGA components.
5. Compact and light-weight design prevents physical stress on the graphic card.
6. Improvement in the installation structure provides excellent compatibility and easy installation.
7. Fan Mate 2 fan controller for fine adjustment between Quiet Mode and Performance Mode.

Specifications

1. VGA Cooler

<table>
<thead>
<tr>
<th>SPEC.</th>
<th>MODEL</th>
<th>FC-ZV9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (mm)</td>
<td>96 (L) X 96 (W) X 30 (H)</td>
<td></td>
</tr>
<tr>
<td>Weight (g)</td>
<td>185</td>
<td></td>
</tr>
<tr>
<td>Cooling Material</td>
<td>Pure copper</td>
<td></td>
</tr>
</tbody>
</table>

2. Fan

- Size : 80(L) x 80(W) x 15(H)mm
- Bearing Type : 2-Ball Bearing
- Speed : 1,650rpm ± 10% (5V, Quiet Mode)
- 3,600rpm ± 10% (12V, Performance Mode)
- Noise level : 20dB ± 10% (5V, Quiet Mode)
- 36dB ± 10% (12V, Performance Mode)

Components

1. One (1) VGA Cooler
2. Eight (8) RAM Heatsinks
3. Four (4) Nipples
4. Four (4) Fixing Nuts
5. One (1) PVC Washer Plate
6. Four (4) Rubber Rings
7. Four (4) Springs
8. Thermal Grease
9. FAN Controller(FAN MATE 2)
10. Cable for FAN MATE 2
11. Dual-sided Tape
(to attach FAN MATE 2)

* The specifications of any product may change without prior notice to improve performance.
Installation Procedure

The following installation sequence MUST be followed.
(VGA RAM Heatsink Attachment → Thermal Grease Application → Nipple Installation on the Retention Guide → VGA Cooler Installation → Spring Insertion on the Fixing Nut → Fixing Nut Assembly on VGA Cooler’s Nipple → VGA Card Installation → Fan Power Cable Connection)

1. VGA RAM Heatsink Attachment
   Remove the film from the thermal tapes on the bottom of the RAM Heatsinks and attach the heatsinks on the VGA RAM.
   
   **Note 1)**
   If Thermal Grease or other residue remains on the RAM, the Thermal Tapes will not stick. Clean the surface of the RAM with acetone or alcohol before attaching.

   **Note 2)**
   The bonding strength of the Thermal Tapes reaches 90% after 24 hours of curing. Do not exert excessive force on the RAM Heatsinks during this period.

   **Note 3)**
   Thermal Tapes are not reusable because they lose adhesiveness after their initial attachment. Purchase new Thermal Tapes if you need to reattach the RAM Heatsinks.

2. Thermal Grease Application
   Clean the contact surface of the VGA Chipset completely. Apply Thermal Grease on the VGA Chipset that makes contact with the base of the VGA Cooler.

3. Nipple Installation on the Retention Guide
   Install the short end of the Nipples on the VGA Cooler’s Retention Guide after determining the appropriate Nipple Installation Holes.

   (Note)
   The Nipples MUST be tightened by hand. Using tools to tighten the Nipples may damage the tips of the Nipples.

   Please check the table below to identify the correct Nipple Installation Holes for specific models of VGA cards.

Nipple Installation Holes for Various VGA Cards

<table>
<thead>
<tr>
<th>Nipple Installation Holes</th>
<th>VGA Card</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ATI X1600 Series</td>
</tr>
<tr>
<td></td>
<td>ATI X1300 Series</td>
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<tr>
<td></td>
<td>ATI Radeon 9 *** Series (except 9550/9600)</td>
</tr>
<tr>
<td></td>
<td>ATI Radeon X ** Series</td>
</tr>
<tr>
<td></td>
<td>NVIDIA GeForce4 MX Series</td>
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<tr>
<td></td>
<td>NVIDIA GeForce FX 5200</td>
</tr>
<tr>
<td></td>
<td>NVIDIA GeForce FX 5500</td>
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<tr>
<td></td>
<td>NVIDIA GeForce FX 5600(FX 5700)</td>
</tr>
<tr>
<td></td>
<td>NVIDIA GeForce 6600 Series (except 6600 AGP Series)</td>
</tr>
<tr>
<td>2</td>
<td>NVIDIA GeForce4 Ti 4 Series</td>
</tr>
<tr>
<td></td>
<td>NVIDIA GeForce FX 5700(Ultra) Series</td>
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<tr>
<td></td>
<td>NVIDIA GeForce FX 5800 Series</td>
</tr>
<tr>
<td></td>
<td>NVIDIA GeForce 6600 Series (except 6600 AGP Series)</td>
</tr>
<tr>
<td>3</td>
<td>ATI X1600 Series</td>
</tr>
<tr>
<td></td>
<td>NVIDIA GeForce 6600 Series (except 6600 AGP Series)</td>
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<tr>
<td>4</td>
<td>NVIDIA GeForce FX 5900 Series</td>
</tr>
<tr>
<td></td>
<td>NVIDIA GeForce FX 5950 Series</td>
</tr>
<tr>
<td>5</td>
<td>ATI X1900 Series</td>
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<tr>
<td></td>
<td>ATI X1800 Series</td>
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<tr>
<td></td>
<td>NVIDIA GeForce 7900 Series</td>
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<td></td>
<td>NVIDIA GeForce 7800 Series</td>
</tr>
<tr>
<td></td>
<td>NVIDIA GeForce 6800 Series</td>
</tr>
</tbody>
</table>

The specifications of any product may change without prior notice to improve performance.
4. VGA Cooler Installation

1. Insert the Rubber Rings into the VGA cooler’s Nipple.
2. Install the Nipple-attached VGA cooler on the VGA card’s Mounting Holes.
   ※ The VGA Chipset MUST be positioned on the center of the VGA Cooler’s base.
3. Simultaneously hold the VGA Cooler and the VGA card with one hand, then flip the VGA card so that its rear-side is facing upwards.

(Note)
Make sure that the VGA Chipset and the VGA Cooler’s base do not get disconnected while simultaneously flipping the VGA Cooler and the VGA card.

5. Spring Insertion on the Fixing Nut

   Slowly turn the Spring in counter-clockwise motion so that the Spring is correctly attached to the Fixing Nut.

   Note 1)
   The ends of the Springs are of different diameters. Install the Spring end with the shorter diameter on the Fixing Nut.

   Note 2)
   Make sure that the Spring is installed perpendicularly and not leaning to one side.
6. Fixing Nut Installation on the Nipples
   ① Place a PVC Washer over each Nipple.
   ② Slightly screw each of the four Spring-attached-Fixing Nuts onto each Nipple, then tighten each Fixing Nut one rotation at a time until all are completely tightened.

Note 1)
Fully tightening one Fixing Nut at a time may result in damaging the VGA chipset. Please tighten each Fixing Nut one rotation at a time until all are completely tightened.

Note 2)
Make sure that the VGA Cooler’s base and the VGA Chipset are completely in contact with each other.

Note 3)
Make sure that the VGA Cooler does not interfere with the VGA card’s capacitors and other components.

7. VGA Card Installation
   Insert the assembled VGA card into the motherboard’s PCIe (or AGP) slot. Use the Fixing Bolt to secure the VGA card onto the computer case. If the VGA card has a power connector on it, remember to plug in the power cable.

   Note 1)
   Fully tightening one Fixing Nut at a time may result in damaging the VGA chipset. Please tighten each Fixing Nut one rotation at a time until all are completely tightened.

   Note 2)
   Make sure that the VGA Cooler’s base and the VGA Chipset are completely in contact with each other.

   Note 3)
   Make sure that the VGA Cooler does not interfere with the VGA card’s capacitors and other components.

8. Fan Power Cable Connection (FAN MATE 2 connection)
   ① Installing FAN MATE 2 on the Inside of the System
   ② Installing FAN MATE 2 on the Outside of the System

   Connect the appropriate 3-pin connectors on the cable to the motherboard’s Fan Header and the FC-ZV9 Fan Connector.

   Pull the 6-pin Connector out of the system through the back and connect it to FAN MATE 2, which should be installed on the case using the included Double-Sided Tape (②).

   ◆ When the RPM Control Knob on FAN MATE 2 is turned fully counter-clockwise, the fan operates in Quiet Mode. Turned fully clockwise, it operates in Normal Mode. You can select the desired fan RPM by turning the knob.

   ※ Performance can be increased by adjusting the RPM control knob of the FAN MATE 2.

   Note) FAN MATE 2 has been specifically designed for the fan of this product. Zalman Tech Co., Ltd. is not responsible for any damage to systems or VGA Chipsets caused by using it with other types of fans.