

ULTRA QUIET NOTEBOOK COOLER
ZM-NC1000



* Please read this manual thoroughly before installation.

* Please visit our website for more detailed product information.

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1. Precautions

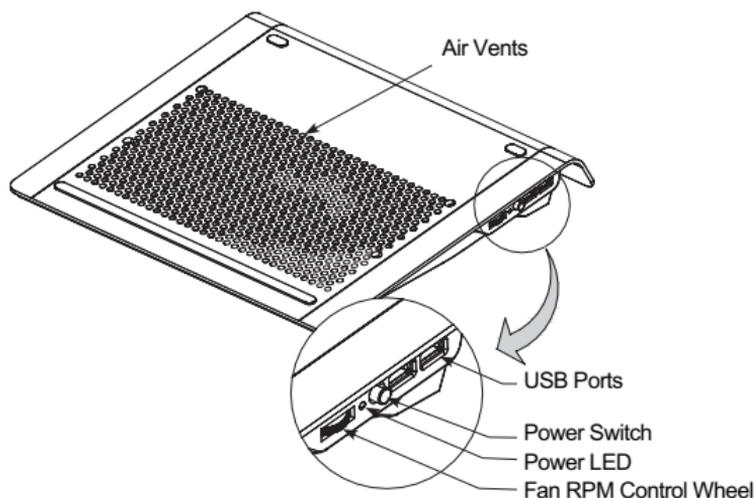
- 1) Do not insert fingers into an operating fan.
- 2) Do not spill liquids on this product.
- 3) Do not insert impurities into or block the top/bottom Air Vents.
- 4) Use on a stable and balanced surface.
- 5) Keep this product away from places exposed to direct sunlight, heat sources, humidity, or dust.
- 6) Do not drop or exert excessive force on this product.
- 7) Check the components list and condition of the product before installation. If there is any problem, contact the place of purchase to obtain a replacement or refund.

2. Patents

- ❖ Korean Patent Application No. 06-0050493.
- ❖ Korean Design Application No. 06-00205578.
- ❖ Patents pending in over 30 nations around the world including USA, EU, and Japan.

3. Components

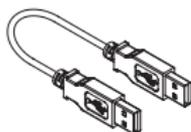
① Notebook Cooler



② User's Manual



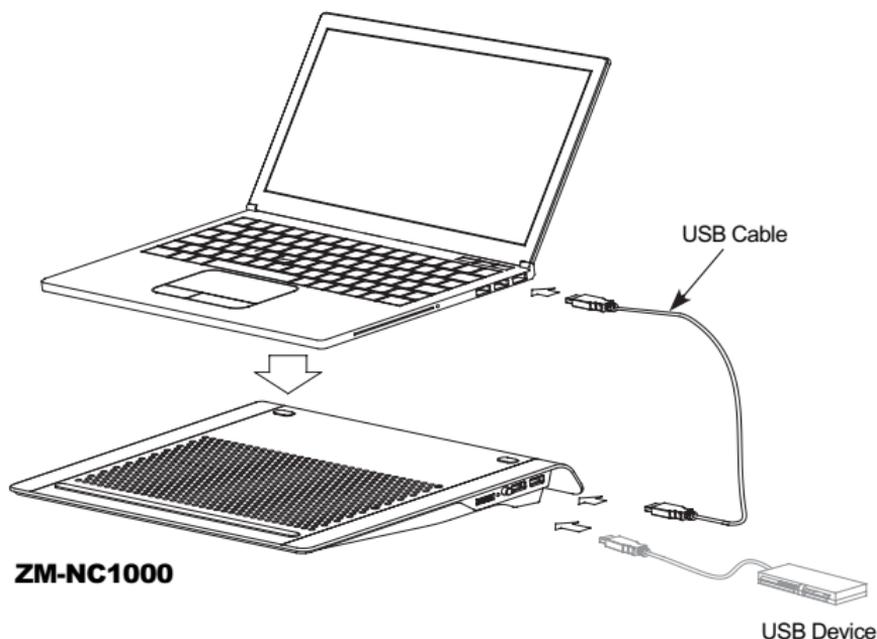
③ USB Cable



4. Specifications

- 1) **Materials** : Pure Aluminum, ABS
- 2) **Weight** : 1,195 g
- 3) **Dimensions** : 308 (L) X 330 (W) X 40 (H) mm
- 4) **Noise** : 18.0 dBA ~ 25.5 dBA \pm 10 %
- 5) **Input Voltage** : 5V (Connects with Notebook USB Port)
- 6) **Fan**
 - Type : Centrifugal Fan
 - Quantity : Two
 - Bearing Type : Hypro
 - RPM : 1,100 rpm ~ 1,500 rpm \pm 10 %

5. Operation Guide



ZM-NC1000

- 1) The ZM-NC1000 is powered by USB connection to a notebook computer using the included USB Cable.
- 2) The unused USB port of a ZM-NC1000 that is connected to a notebook computer can be used for indirectly connecting a USB device to the notebook computer.
- 3) The lifespan of heat-sensitive LCD panels in notebook computers can be increased by using the ZM-NC1000 to cool the keypad area before shutting the notebook.
- 4) The fan rpm of a ZM-NC1000 can be adjusted to the user's preference.
(Even an rpm setting below the mid-range provides sufficient cooling for the notebook.)

Note)

1. The power consumption of a USB device that will be connected to the remaining USB port on a ZM-NC1000 must NOT exceed 1.9 watt.
2. The "●" mark on the Fan RPM Control Wheel indicates the mid-range rpm.
3. When operated at low fan rpm settings, the ON/OFF status of a ZM-NC1000 may not be audibly distinguishable, requiring a visual confirmation through the Power LED's ON/OFF status.
4. When storing the ZM-NC1000, preventing the accumulation of dust in the vents and inlets will maintain optimal sanitary and performance conditions.
5. Notebook computers with relatively thick rubber feet increase the distance between the notebook computer and the ZM-NC1000, facilitating enhanced airflow and cooling performance.

6. More Cool Innovations

6-1 Zalman Computer Noise Prevention System

Noiseless systems with stable performance can be built with Zalman's noiseless power supplies, quiet VGA coolers, ultra quiet CPU coolers, noiseless case fans, home theatre enclosures, and fan controllers.



Noiseless Power Supplies



Quiet VGA Coolers



Ultra Quiet CPU Coolers



Noiseless Case Fans



Home Theatre Enclosures



Fan Controllers

6-2 TNN (Totally No Noise) Computer Enclosures



TNN 300



TNN 500AF

TNN Computer Enclosures are the world's first environment-friendly noiseless computer enclosures that operate without the use of a fan. TNN Computer Enclosures use the aluminum enclosure itself as a heatsink. They are ideal for environments that require silence, as well as for home theatre systems and multi-media systems.

6-3 Home Theater PC Enclosures



HD160

The HD160 is designed for ultra quiet home theatre PC operation, utilizing optimized ventilation and anti-vibration reinforcements, making it ideal for environments that require silence such as living rooms, bedrooms, educational facilities, and offices.

For more information, please visit our website.



Disposal of Old Electrical & Electronic Equipment
(Applicable in the European Union and other European countries with separate collection systems)