

**ULTRA QUIET**  
**NOTEBOOK COOLER**  
**ZM-NC2000**

Ver. 1.0  
User's Manual  
ENGLISH

[www.zalman.co.kr](http://www.zalman.co.kr) / [www.zalmanusa.com](http://www.zalmanusa.com)

- \* Please read this manual thoroughly before installation.
- \* Please visit our website for more detailed product information.

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## 1. Precautions

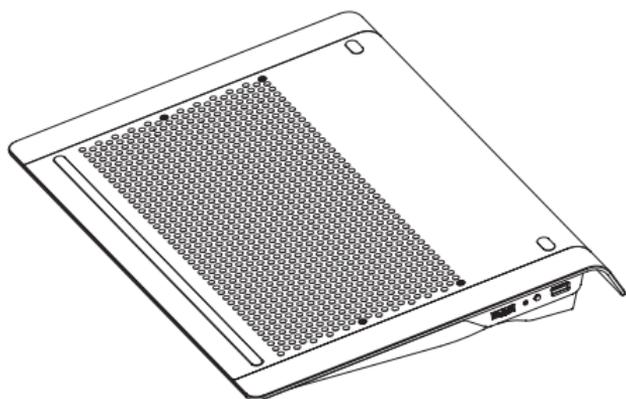
- 1) Do not insert fingers into an operating fan.
- 2) Do not spill liquids on this product.
- 3) Do not insert impurities into or block the top/bottom Air Vents.
- 4) Use on a stable and balanced surface.
- 5) Keep this product away from places exposed to direct sunlight, heat sources, humidity, and 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 a problem, contact the place of purchase to obtain a replacement or refund.



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

## 2. Components

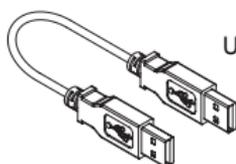
### 1) ZM-NC2000 Main Components



### 2) Accessory's



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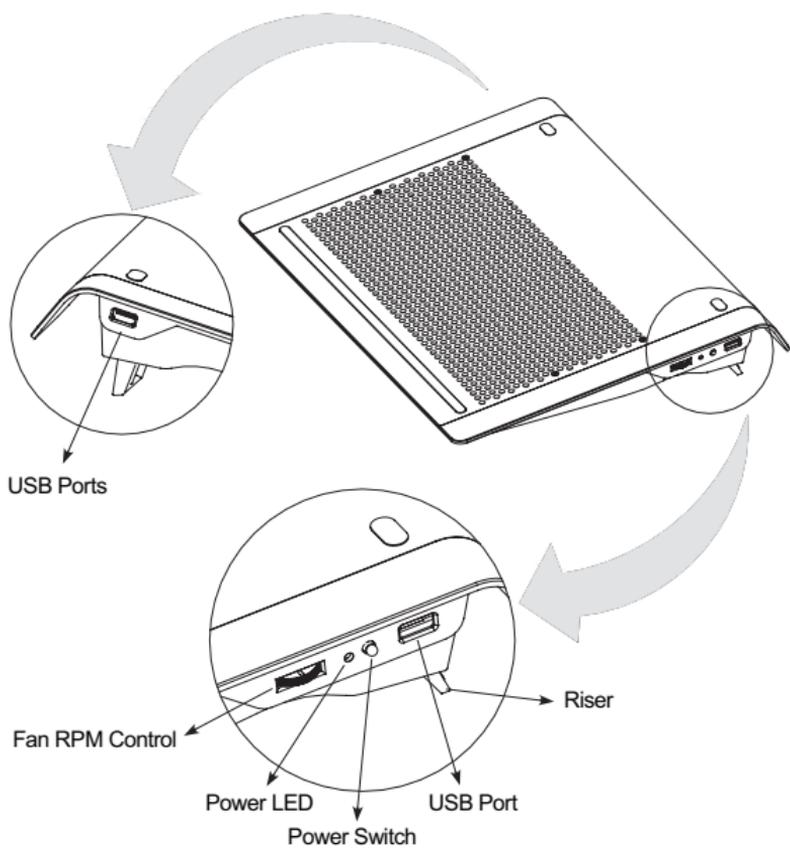
USB Cable

## 3. Specifications

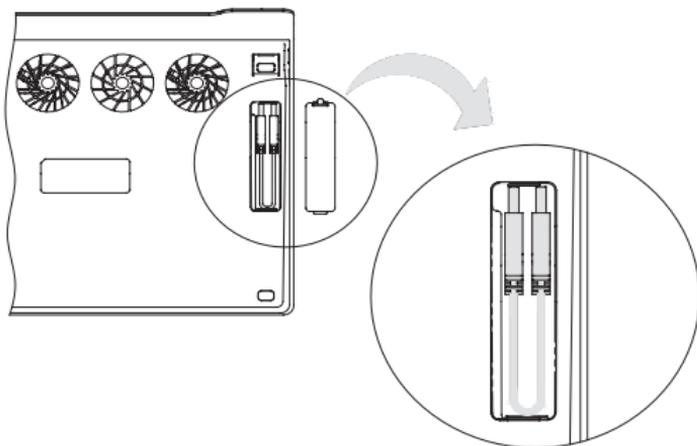
- 1) **Materials** : Pure Aluminum, ABS
- 2) **Weight** : 1,460 g
- 3) **Dimensions** : 318 (L) X 400 (W) X 42.5 (H) mm
- 4) **Noise** : 18.0 dBA ~ 25.5 dBA  $\pm$  10 %
- 5) **Input Voltage** : 5V (Connects with Notebook USB Port)
- 6) **Fan**
  - Type : Centrifugal Fan
  - Quantity : Two
  - Bearing Type : Hypro
  - RPM : 1,100 rpm ~1,500 rpm  $\pm$  10 %

## 4. Feature

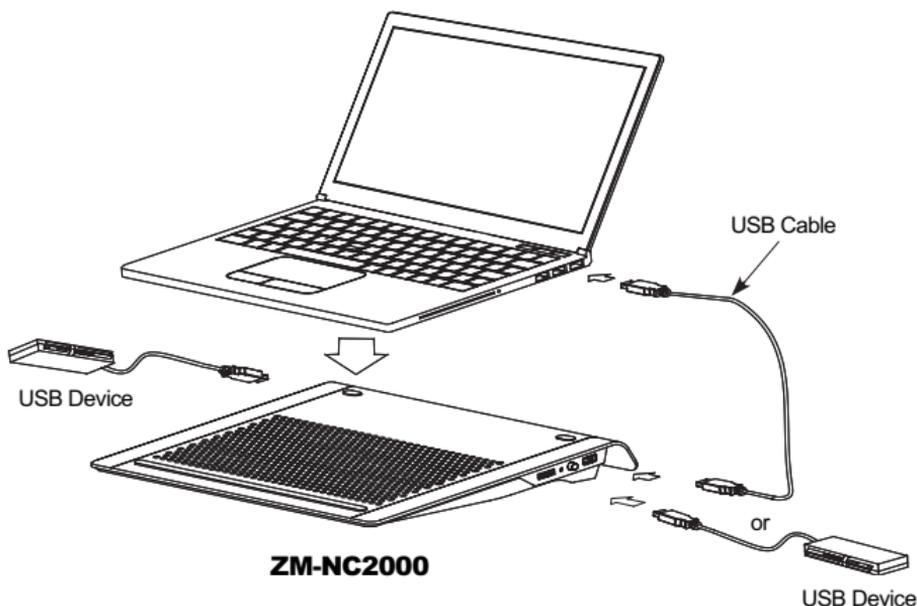
### 1) ZM-NC2000 Main Components



### (2) USB Cable Compartment



## 5. Operation Guide



- 1) The ZM-NC2000 is powered by USB connection to a notebook computer using the included USB Cable.
- 2) The unused USB port of a ZM-NC2000 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-NC2000 to cool the keypad area before shutting the notebook.
- 4) The fan rpm of a ZM-NC2000 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 of ZM-NC2000 must NOT exceed 1.9 watt.
2. The "●" mark on the Fan RPM Control indicates the mid-range rpm.
3. When operated at low fan rpm settings, the ON/OFF status of ZM-NC2000 may not be audibly distinguishable, requiring a visual confirmation through the Power LED's ON/OFF status.
4. When storing the ZM-NC2000, 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-NC2000, facilitating enhanced airflow and cooling performance.

## 6. More Cool Innovations

### Computer Noise Prevention Systems

Noiseless systems with stable performance can be built with Zalman's cooling components, Enclosures, and accessories.



**CNPS 9700**  
CPU Cooler



**VF1000 LED**  
VGA Cooler



**VNF100**  
Fanless VGA Cooler



**ZM-MFC1 Plus**  
Fan Controller



**ZM-STG1**  
Super Thermal Grease



**Noiseless Case Fans**

### Home Theater PC Enclosures



**HD160 Plus**



**HD160XT Plus**



**HD135**

### Tower PC Enclosures



**Z-MACHINE GT900**



**Z-MACHINE GT1000**



**TNN 300**