

VD3000 Series

# Matrix VX

All Aluminum Case

User Manual



**Light as Feather**

**Solid as Rock**

*Perfect for Lan Party*



**Thermaltake**  
COOL ALL YOUR LIFE

# Contents

<b>Chapter 1</b>	<b>Product Introduction</b>	
1.1	Specification .....	1
<b>Chapter 2</b>	<b>Case Mechanical Operation</b>	
2.1	How to remove/install the side panel-----	2
2.2	5.25" & 3.5" Device Installation-----	3
2.3	PCI slot tool-free function operation .....	4
2.4	Front Fan Filter Removal and Cleaning-----	5
<b>Chapter 3</b>	<b>Montherboard &amp; Leads installation</b>	
3.1	Montherboard installation .....	6
3.2	Case LED connection .....	7
3.3	USB & 1394 firewire connection .....	8
3.4	Ear & Mic connection-----	9
<b>Chapter 4</b>	<b>Other</b>	
4.1	Purepower™ power supply (optional) .....	10

## Chapter 1. Product Introduction

### 1.1 Specification



Model	VD3000BWA	VD3000BNA	VD3000SWA	VD3000SNA
See-through side panel	√		√	
Case Type	Middle Tower			
Net Weight	3.8 kg			
Dimension (H*W*D)	430 x 190 x 500 mm			
Cooling System	Front (Intake) : 120 x 120 x25 mm, 1300rpm, 17dBA Rear (Exhaust) : 120 x 120 x25 mm, 1300rpm, 17dBA			
Drive Bays -Front Accessible -Internal	10 4 x 5.25", 2 x 3.5" 4 x 3.5"			
Material	Chassis: 0.8 mm SECC			
color	Black / Silver			
Expansion Slots	7			
Motherboards	Micro ATX , Standard ATX			
Features	<ul style="list-style-type: none"> <li>▪ <b>Super light 3.8 kg, solid constructed.</b></li> <li>▪ Perfect for LAN party</li> <li>▪ All mesh design front panel for maximum ventilation</li> <li>▪ High efficiency ventilation: 12cm silent fan in front &amp; rear</li> <li>▪ Tool - Free installation for all drive bays and add-on card.</li> <li>▪ Dual USB 2.0, IEEE 1394 Firewire, Audio &amp; Speaker ports</li> <li>▪ Thumb-screws for easy opening side panel</li> <li>▪ EMI protection spring</li> </ul>			

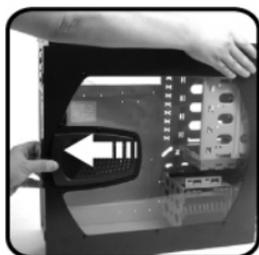
## Chapter 2. Case Mechanical Operation

### 2.1 How to remove/install the side panel

- ① To remove the side panel, please unscrew from the back of the case.



- ② Pull the side panel to release it.



- ③ Push the side panel to fit the both side of rail of the case.

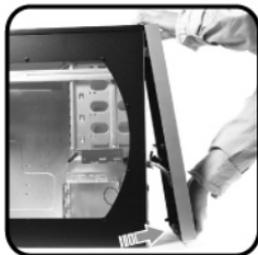


- ④ To re-install the side panel, just push the panel to fix the both side of the rail, then fix it by screws.

## 2.2 5.25" & 3.5" Device Installation

### ① 5.25" Device Installation:

Pull the front panel to release it.



Attach the included tool-less guide rail on the side of 5.25" device, then insert it into the 5.25" bay.



### ② 3.5" Device Installation:

Additional HDD drives can be installed into the HDD cage within the chassis. Please attach the included tool-less guide rail on the side of HDD drive, then insert it into the HDD cage.

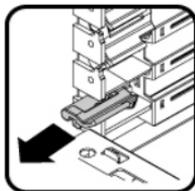


## 2.3 PCI slot tool-free function operation

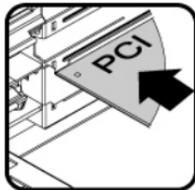
① Take up the holder



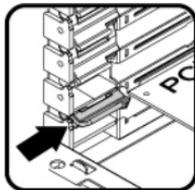
② Pull out the holder



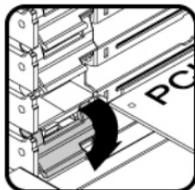
③ Insert the PCI card into the PCI slot



④ Push in the holder



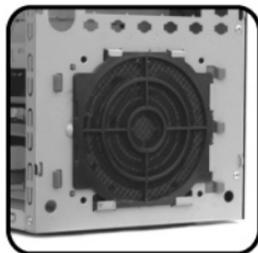
⑤ Press down the holder



## 2.4 Front Fan Filter Removal and Cleaning

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- 1 Take off the front bezel, then the filter can be removed and washed.



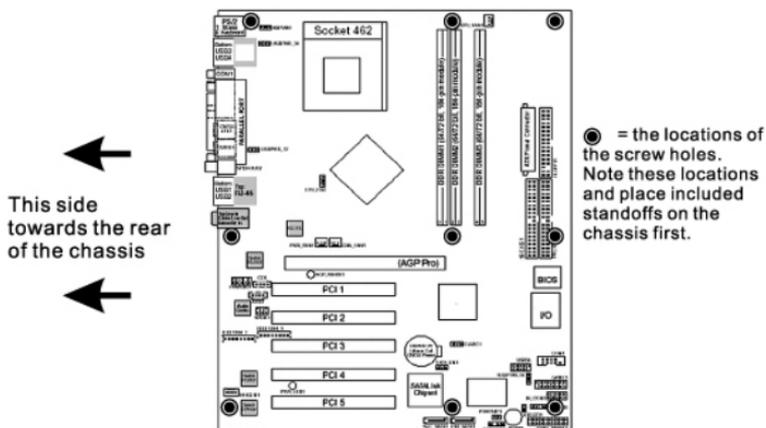
## Chapter 3. Motherboard & Leads Installation

### 3.1 Motherboard Installation

Each motherboard has different standoff layout. It is highly suggested that you refer to your motherboard's manual when installing motherboard into Case. This is applicable with Standard ATX, Micro ATX motherboards. Your motherboard may require a special I/O Panel, which should be included with your motherboard. Case include the standard I/O Panel which is used by majority of today's motherboard.

#### Placement Direction:

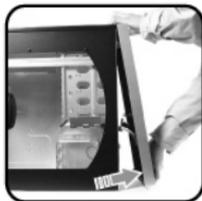
When Installing the motherboard, make sure you follow the direction provided by your motherboard manufacturer. On most standard motherboards, the edge with external ports goes to the rear part of the chassis. It is highly recommended that you install CPU, heat sink and modular components before fixing the motherboard inside the chassis.



Above illustration is a sample of what the motherboard's layout. For more detail screw hole placement, please refer to your motherboard manual.

## 3.2 Case LED connections

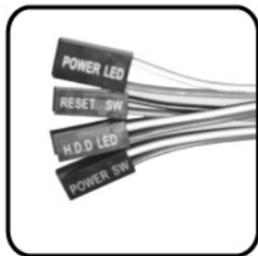
- Pull out and release the front panel.



- Connect the connector as picture.



On the front of the case, you can find some LEDs and switch leads (SPEAKER\*1, POWER SW\*1, POWER LED\*1, H.D.D. LED\*1, RESET SW\*1). Please consult user manual of your motherboard manufacturer, then connect these leads to the panel header on the motherboard. These leads are usually labeled; if not, please trace them back to the case front to find out their source.



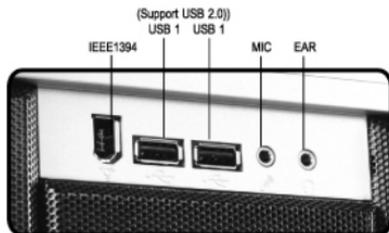
- **POWER LED** connects to your M/B at the PLED
- **POWER SW** connects to the PWR connector on the motherboard.
- **SPEAKER** connector: find out the 4-pin labeled SPEAKER on the M/B then connect it.
- **H.D.D LED** connects to the 2-pin labeled HDD LED connector.
- **REST SW** connects to the RSW connector on the motherboard.



### 3.3 USB 2.0 & IEEE 1394 firewire connections

There are four wires with different connectors inside the case, these are shown as follow:

USB1(4+1pin),  
 USB2(4+1pin),  
 IEEE1394,  
 front Audio connector



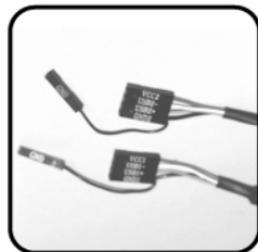
#### **USB2.0 connection: it is compatible for USB1.1**

Please consult your motherboard manual to find out the position of USB 2.0 connection on your motherboard. You can see 10-pins in two rows.

- USB1 includes VCC1, USB1-, USB1+, GND1, GND.
- USB2 includes VCC2, USB2-, USB2+, GND2, GND.

Connect "2.0 USB1" to the one of two rows on the motherboard.

Connect "2.0 USB2" to the other row.



**Note:** One or two pins may be shown in both rows as NC on some motherboards, please ignore it, NC means empty pin

## IEEE 1394 firewire connection

There are eight wires (two GND, VG, VP, TPA+, TPA-, TPB+, TPB-) with connectors coming from the IEEE 1394 of the case. Please consult your motherboard manual to find out the position of IEEE 1394 connection on your motherboard. You can see 10-pins in two rows.



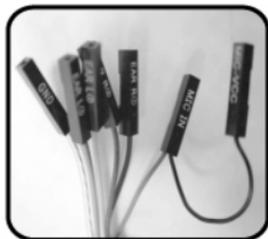
- **Power pin:** connect VP connector to it.
- **Ground pin:** connect VG connector to it ( next to the VP connector)
- **Data pin:** connect TPB- connector to the TPB- data pin, connect TPB+ connector to the TPB+ data pin, connect TPA- connector to the TPA- data pin, connect TPA+ connector to the TPA+ data pin.
- **Ground pin:** Connect two GND connectors to the other two GND ground pins

## 3.4 Ear & MIC connections

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Please consult your motherboard manual to find out the section of "front panel audio connector".

1. connect "MIC-VCC" to "MIC POWER" or "MICPWR" on your motherboard
2. connect "MIC-IN" to "MIC INPUT" or "MIC2" on your motherboard.
3. connect "GND" to "GROUND" or "AGND" on your motherboard.
4. connect "EAR L" to "AUD\_FRONT\_L" and "EAR R" to "AUD\_FRONT\_R".
5. connect "LINE L" to "AUD\_RET\_L" and "LINE R" to "AUD\_RET\_R".



## Chapter4 Other

### 4.1 Purepower™ power supply (optional)

The Thermaltake Silent™ Purepower specification meets Intel Pentium 4 and AMD K7; it offers plenty of functions, which mainly include:

1. Automatic Fan Speed Control: The Silent Purepower™ power supply can detect the inside heat and automatically adjust the fan speed to provide adequate airflow.
2. Ultra Silent: Ball bearing fans with high reliability and super low acoustic noise under all load condition.

The functions can assure the Silent Purepower™ meet the balance in noise control and heat exhausted. The Silent Purepower™ provides complete protection function as follow:

1. Over thermal protection at 100°C-105°C
2. Short circuit protection on all output.
3. Over voltage protection / Under voltage protection.
4. Over current protection.

Besides, Thermaltake enables the quality assurance of the Silent Purepower™: 100% Hi-POT and ATE Function Test, 100% Burn-In and AC Input cycled on/off under high temperature condition. Furthermore, it has been approved by UL, CSA, TUV, VDE, NODIC, CB, FCC, CE, CNS.



**There are three main products of Thermaltake PSU, it is divided into standard, VR and speciality power supply unit. Please refer to <http://www.thermaltake.com/purepower/main.htm>**