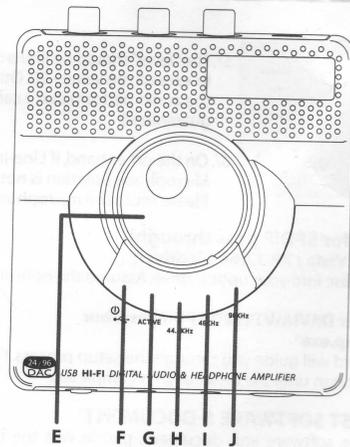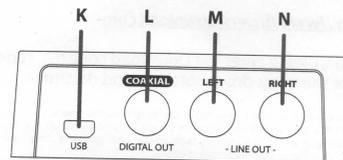## A. DISCLAIMER

- We strongly recommend you to backup all the data in the hard drive before installing the product onto your computer. We held no responsibility for any data loss due to improper installation, misuse, abuse, or neglect.
- In case of a high electrostatic discharge and fast transient disturbance from the power source, you may need to reset the product manually by switching it off for a few seconds before switching it on again.

B. INTRODUCTION

This 24-bit USB Audio DAC (digital-to-analog converter) allows you to bypass your computer's soundcard or headphone output and send digital audio signal through the USB interface. With this perfect digital interface between your computer and the music system, the sound quality is pushed to another higher level in your overall music environment.

C. FEATURES & SPECIFICATION

- USB-based 24-bit / 96 KHz digital-to-analog converter (DAC)
- Powerful op. amplifier - TI LM4562 x 1
- High-quality Coaxial digital output - AC3 (Dolby Digital) / DTS Pass-Through
- Dynamic Range around 97dB (Max, A-weighted)
- THD+N: 0.00003% (Max)
- OPAMP Power Supply : +/-5V (Dual power supply Max10V)
- System Power Supply: USB Bus Power
- Analog-Out 1: Line output (RCA),
- Analog-Out 2: Dual headphone output (Stereo phone, Stereo mini)
- Analog Input: Microphone Input (3.5mm, up to 24bit / 96kHz)
- Line Input: share with microphone input (3.5mm, up to 24bit/ 96KHz)
- Digital Output: Coaxial

- Interface: mini USB Interface (1.1 / 2.0 compatible)
- Integrated de-pop function for suppress pop noise during PC power-up and shutdown
- Supported Operating systems : Windows 7 32/64-bit, Server 2008 32/64-bit, Vista 32/64-bit , Server 2003 32/64-bit, XP 32/64-bit and MAC OSX

D. PACKAGE CONTENTS

Please check whether the package contains the following items:
- USB 2.0 96KHz / 24bit audio DAC x 1
- User Manual x 1
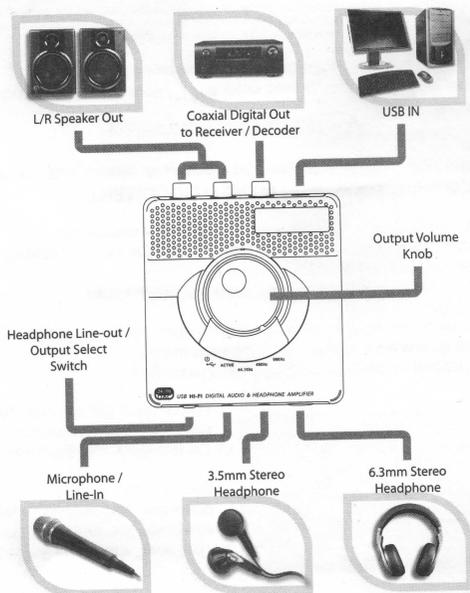- Mini USB cable x 1
- RCA to RCA cable x 1

If any item is missing or damaged, please contact the retailer as soon as possible.

E. PRODUCT OVERVIEW

Front Panel

Top Panel
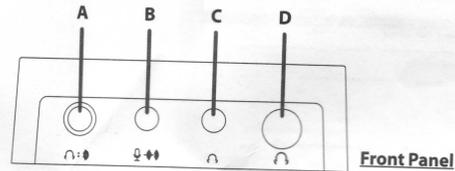
Rear Panel

A. Output selection switch – Selecting line out or headphone out (Pressed Inward = Headphone)
B. Line input or Microphone input – To stereo microphone or audio source
C. 3.5mm Stereo headphone output
D. 6.3mm Stereo headphone output
E. Output volume control
F. Power on and USB link indication (Red LED represent power on ; Green LED represent USB is connected)
G. Left and Right analog output indication (LED will blink during audio is playing back)
H. 44.1 KHz playback or recording sampling rate indication
I. 48 KHz playback or recording sampling rate indication
J. 96 KHz playback or recording sampling rate indication
K. USB Input – To PC USB
L. Coaxial Output – 24-bit / 96KHz Digital PCM signal output to audio amplifier
M. Left Analog Output – To audio amplifier left output
N. Right Analog Output – To audio amplifier right output

Note: Please note that when both 3.5mm and 6.3mm Stereo headphone jack are inserted, only 3.5mm Stereo headphone jack is active.

F. HARDWARE INSTALLATION

L/R Speaker Out

Coaxial Digital Out
to Receiver / Decoder

USB IN

Output Volume
Knob

Headphone Line-out /
Output Select
Switch

Microphone /
Line-In

3.5mm Stereo
Headphone

6.3mm Stereo
Headphone

USB HI-FI DIGITAL AUDIO & HEADPHONE AMPLIFIER

5

G. SOFTWARE SETTING

No driver installation is required. The USB DAC is automatically recognized as a USB AUDIO device once it is connected to the computer.

However, there are different settings among different operation systems when using Line – in function.
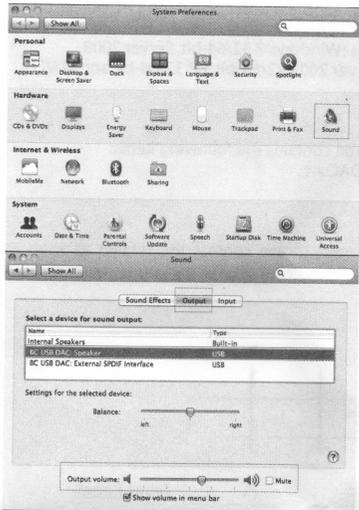
For Mac OS X:
Step 1 – 4:

1/. Open "Utilities" and then "Audio MIDI Setup"
2/. Select our USB DAC
3/. Select "Input"
4/. Line-in function: Check the box "Thru"
     Microphone-in function: Uncheck the box "Thru"
     Alway uncheck the box if Line-in is not used.

6

Step 5 – 6:

5/. Select "Sound" in "System Preferences"

6/. Changing the output volume.
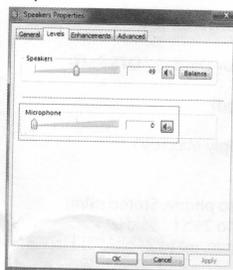
For Windows 7 32-/64-bit and Vista 32-/64-bit:
Step 1.- 2:

1/. Enter the audio device selection screen like the picture on the left shown.

2/. Select our USB DAC and right click to change its properties.

Step 3 - 5:

3/. Using Line-in function, please alter Microphone" setting be not muted.

4/. And the "level" should be limited not to exceed the value - 20. Otherewise, the audio performance cannot be guaranteed.

5/. On the other hand, if Line-in or Microphone function is not used. Please mute the microphone.

For Windows XP 32-/64-bit:
Step 1 - 2:
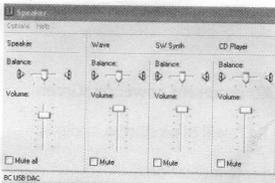
1/. Enter the audio device selection screen like the picture on the left shown.

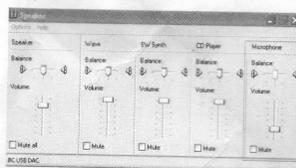2/. Click "option" to enter the "property" page to set the gain of the audio input.

Step 3 – 4:

3/. Select our USB DAC as "Mixer device"

4/. Click the box of "Microphone"

Step 5 – 6:

5/. The "level" should be limited not to exceed the value - 20. Otherwise, the audio performanace cannot be guaranteed.

6/. On the other hand, if Line-in or Microphone function is not used. Please mute the microphone.

Driver Installation (for SPDIF pass through)
Installing Windows 7 / Vista / XP 32/64-bit driver:
1. Insert the driver CD disc into your optical drive. Assume the optical drive letter is **D:**.
2. Go to the driver folder **D:\VIA\VT1620-SPDIFPassThur**
3. Double click on "**setup.exe**"
4. The Installation Wizard will guide you through the setup process. Follow the on-screen instruction until the installation is completed.

GETTING THE LATEST SOFTWARE & DOCUMENT
To get the latest driver, software and document, please visit the following website:

http://www.drivers-download.com

In "**Drivers Search**" section, please enter the Download code (DL code): **DL-0312335** to search for the latest driver, software and document.