



VAI-40

USB Audio Interface

OWNER'S MANUAL

Vestax Europe Technical Support
Rheinstr.213 D-53332 Bornheim Germany
Phone 49(0)2222-95-23-72 Fax 49(0)2222-95-23-74

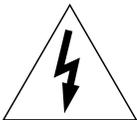
Vestax Corporation
1-18-6 Wakabayashi, Setagaya-ku, Tokyo 154-0023 Japan
Phone 03-3412-7011 Fax 03-3412-7013
Web : www.vestax.com

CONGRATULATIONS !

Thank you for purchasing Vestax's VAI-40 USB Audio Interface.
We suggest that you read through this owner's manual thoroughly to enjoy this product safely and in knowledge of all its special features and suitable applications.

CONTENTS

INTRODUCTION	4
Features	
PARTS AND ACCESSORIES	4
INSTALLATION	5
System Recommendation	
Hardware Installation	
Driver Installation	
SETTING IN APPLICATIONS	8
Mac OS X	
ASIO Control Panel	
Block Diagram	
Cubase SX / Nuendo	
Reason	
WaveLab	
SPECIFICATIONS	14



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



**CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFEGUARDS

READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. Read instructions-All the safety and operating instructions should be read before the appliance is operated.
2. Retain instructions-The safety and operating instructions should be retained for future reference.
3. Heed Warnings-All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions-All operating and use instructions should be followed.
5. Cleaning-Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments-Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture-Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories-Do not place this product on an unstable cart, stand, tripod, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Object and Liquid Entry-Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
11. Servicing-Do not attempt to service product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.
12. Damage Requiring refer servicing to qualified service personnel under the following conditions:
 - a. If liquid has been spilled or objects have fallen into the product.
 - b. If the product has been exposed to rain or water.
 - c. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other, controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - d. If the product has been dropped or cabinet has been damaged.
 - e. When the product exhibits a distinct change in performance this indicates need for service.
13. Replacement Parts-When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock or other hazards.
14. Safety Check-Upon completion of any service or repairs to product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
15. Carts and Stands-The appliance should be used only with a cart stand that is recommended by manufacturer.
16. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

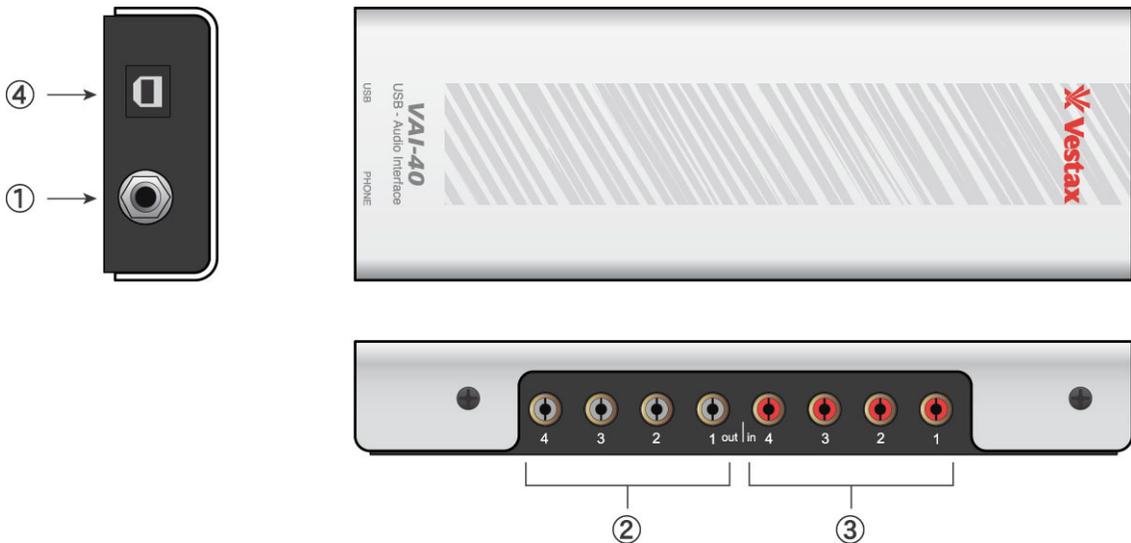


INTRODUCTION

Congratulations on your purchase of the VAI-40.

The VAI-40 is an audio interface designed with simplicity for easy operation and enables multi channel recording via USB with high definition sound. This compact metal body audio interface is compatible with professional DAW and DJ application software, applicable to live setups on stage and is suitable for recording & saving vinyl to computers whilst monitoring.

Features



- ① headphone output (channel 1 and 2)
- ② 4 analog outputs (Line Out channel 1 to 4)
- ③ 4 analog inputs (Line In channel 1 to 4)
- ④ USB connection

-Equipped with Monaural 4in / Stereo 2out (Master out L, R, Monitor/ Booth out L, R), Headphone monitor output. The VAI-40 provides a high definition sound, thanks to the audio codec IC designed with a built-in hardware sample rate converter, delta-sigma conversion 20bit stereo D/A converter and 18bit stereo A/D converter.

-Full support for ASIO2.0(Windows), MME/WDM(Windows) and CoreAudio(Mac OS X)

-ESI(Ego systems Inc) designed ASIO driver applied for its proven high reliability. DAW application software and DJ application software work with the driver at a valiant low latency rate and high performance.

-The VAI-40 runs on USB bus power, allowing it to be compact, and the metal body is thin but highly durable, and convenient for transportation.

PARTS AND ACCESSORIES

- ① Owner's manual
- ② USB Cord
- ③ CD-ROM

INSTALLATION

System Recommendation

MAYA44 USB is not simply a standard digital audio interface card, but a high-resolution device capable of advanced processing of audio content. Even though MAYA44 USB is built to have low-CPU resource dependability, system specifications play a key part in the MAYA44 USBs performance. Systems with more advanced components are generally recommended.

Minimum System Requirements

PC

- Intel Pentium II 450MHz CPU or comparable AMD CPU (or equivalent) we recommend at least a Pentium III CPU with 600 MHz
- Windows 98SE, ME, 2000, XP operating system
- 1 available USB port
- at least 128MB RAM
- high quality audio software with ASIO support strongly recommended

Mac

- Power Macintosh G3 or higher
- 1 available USB port
- at least 256MB RAM
- Mac OS X 10.3 or higher

Hardware Installation

MAYA44 USB is simply connected to an available USB port of your computer. A separate power supply is not required, as MAYA44 USB is a USB powered device. Simply install the hardware by plugging it into your computer.



USB port of a computer

Driver Installation

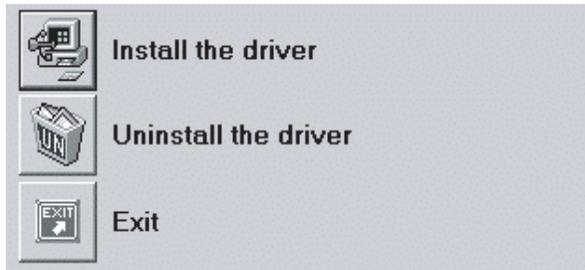
After the connection of MAYA44 USB, the operating system automatically detects it as a new hardware device. Modern operating systems like Windows XP or Mac OS X usually detect the hardware directly and are installing the correct USB audio drivers automatically.

You can use MAYA44 USB already now in some consumer audio applications that do not need special professional ASIO driver support. Under Windows XP this could be for example programs that don't require ASIO like more simple DJ applications. Under Mac OS X this could be applications like Garageband.

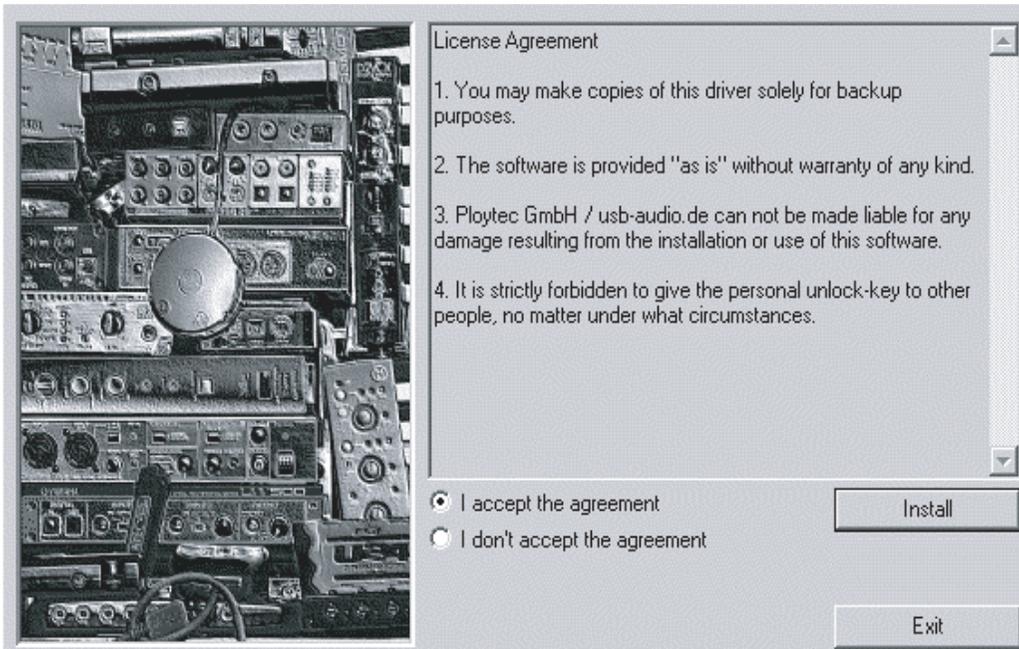
The following section describes the installation of our ASIO compatible special driver software under Windows XP. The procedure is similar with other versions of Windows.

Installation under Windows XP

Unplug the device before you start the installer. Then launch *setup.exe* from the *ESI/MAYA44USB* folder of the included driver CD or from a download of a recent driver from our website. You can select the language used for installation, then the following dialog appears:



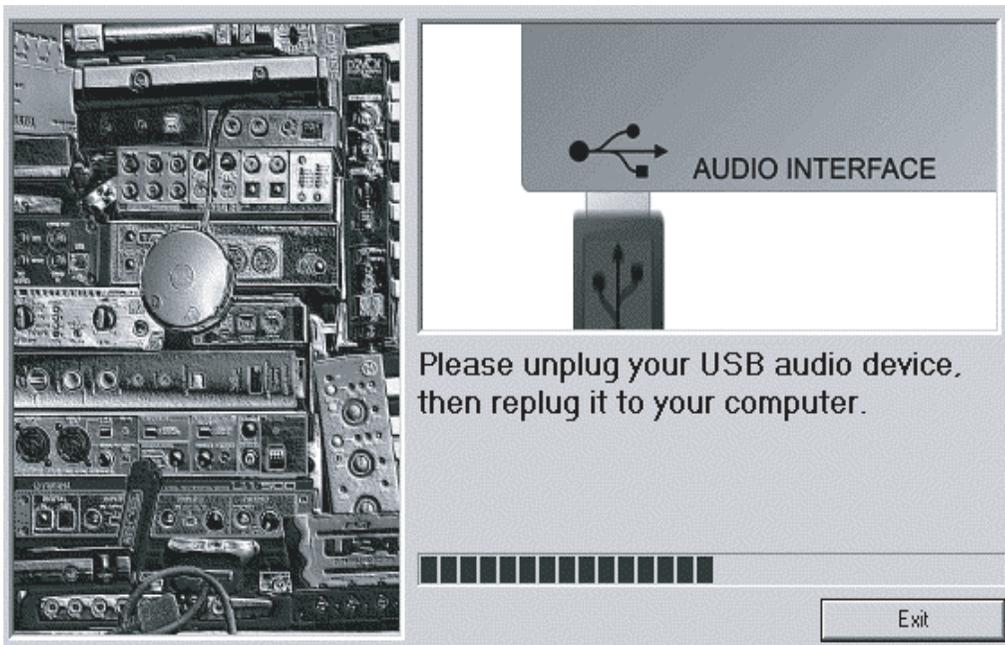
Choose *Install the driver*. The following window appears:



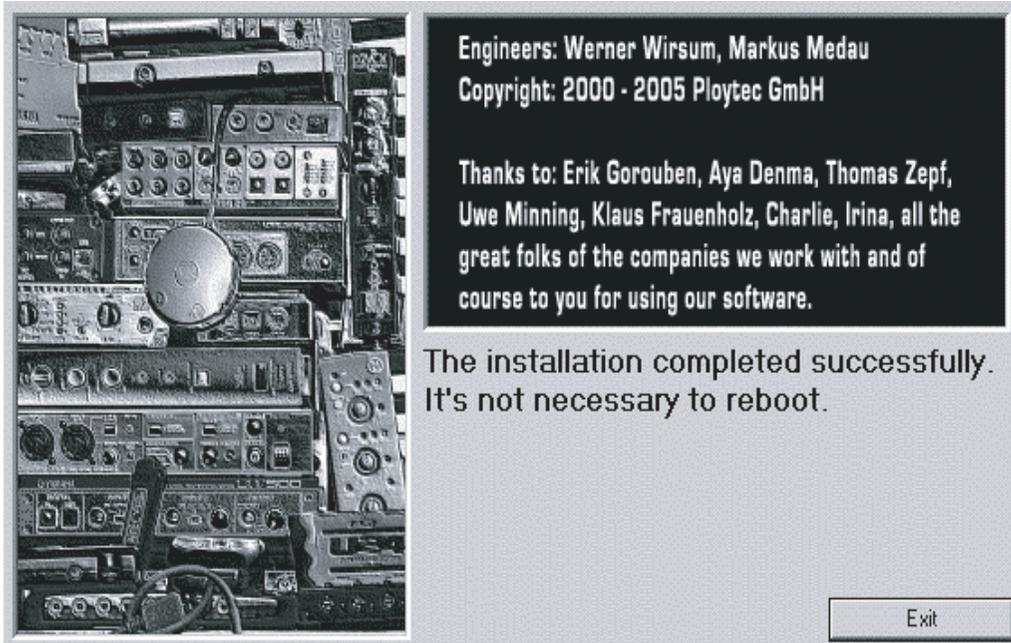
Accept the license agreement and then click on *Install*. Now 1:1 follow the instructions on screen through out the installation process.



The installer will instruct you to plug-in the USB device to the computer. The detection can always take a moment.



If you are told to do so like seen above, please unplug the device again, before you will be told to plug it in again. If that happens, please wait again until the detection (like described above) is completed.



The completion of the installation can be confirmed on the screen above with *Exit*.

Congratulations! You have now completed the installation of the special ASIO driver successfully and the installation of MAYA44 USB has been completed now.

With the installer, you can also remove the driver again. If you want to do that, launch *setup.exe* again and then choose the option *Uninstall the driver*.

SETTING IN APPLICATIONS

This chapter contains basic configuration examples for some popular software applications. Please always also refer to the manual of every audio software you use for detailed information.

Mac OS X

After connecting your MAYA44 USB to your Macintosh, open your Audio MIDI setup panel and select your *MAYA44 USB* as default audio device for *Default Input and Default Output*.



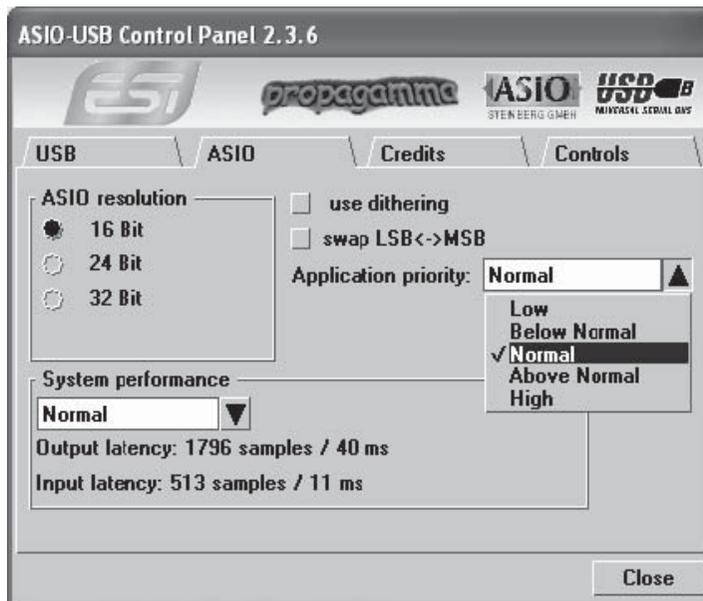
Install MAYA44 USB control panel from the driver CD.



The controls are identical to the Mixer controls (for the ASIO driver under Windows) as described on Page 11.

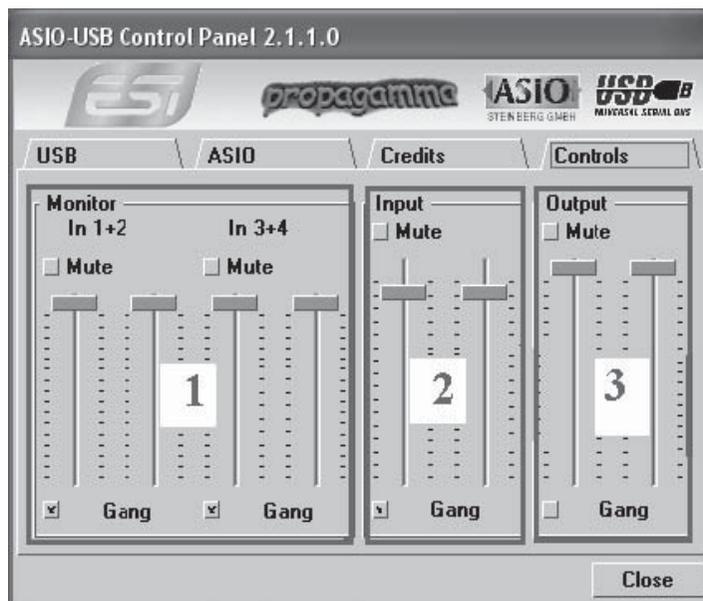
ASIO Control Panel

Nearly all ASIO applications provide a button labeled *ASIO Control Panel* in the audio device settings dialog that allows you to open the control panel window of the ASIO driver. The settings done there are used for all ASIO applications, even though the dialog is only opened directly from within an application:



System Performance changes buffer sizes and latencies. Higher values allow the use of more plug ins, effects etc. at the same time but aren't fun playing virtual instruments live.

If you open the *Controls* tab within the ASIO control panel, you'll see the mixer window that is explained below:



You can control the input monitor level, the input level and the output level from here. If you're not clear with this chapter, please refer to the block diagram on the following page.

1. Monitor Level Control Section

This section can be used to control the input monitor level. You can monitor the signals through the input channel 1,2 and input channel 3,4 individually and/or simultaneously. It will not affect the actual input level from the source. Even if these faders are muted, you can still record the signals from the source, but you are not able to listen to (= monitor) the input source through the analog output.

2. Input Level Control Section

This section controls the real input level through the input ports. You can control all 4 inputs using the one set of the stereo faders.

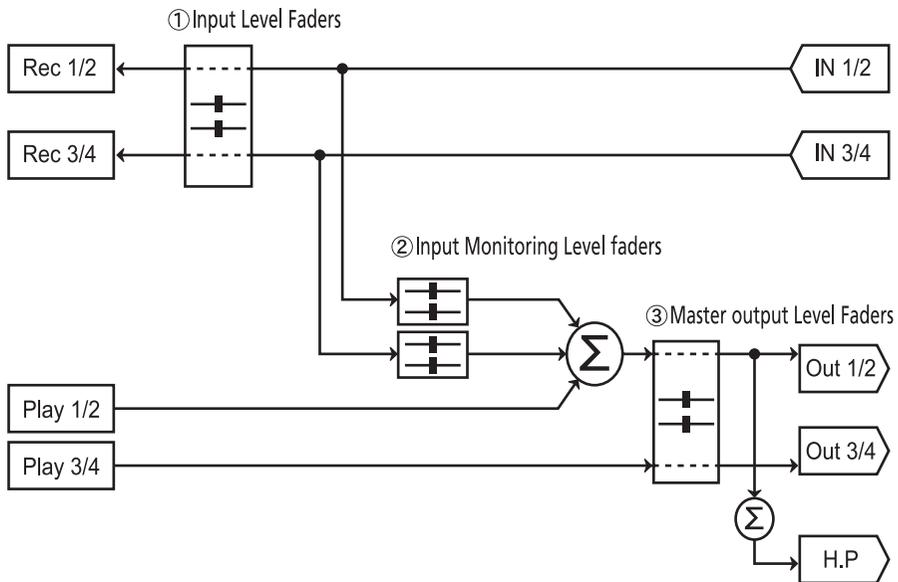
3. Output Level Control Section

These are the master output level faders. You can control all the outputs using the single set of the stereo master fader. You can control the monitoring level (channel 1 and 2) of the input source through the input ports and/or the playing out level of the wave file through the analog output ports.

Please note that the headphone output signal is the signal from analog out 1, 2.

The *Gang* mode links the left and right faders of each channel together for easier stereo operation. Deselect *Gang* if you need to control the left and right levels independently.

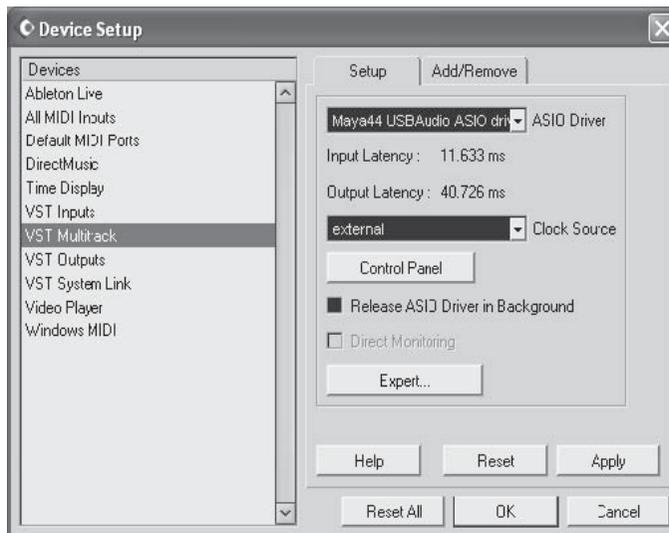
Block Diagram



Cubase SX / Nuendo

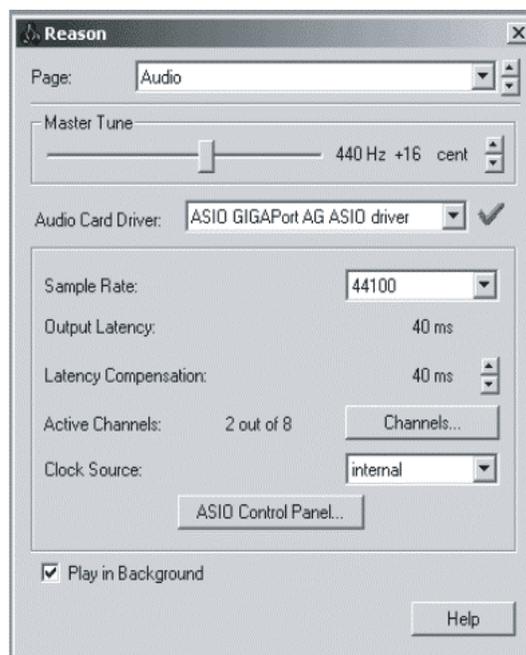
After launching Cubase SX or Nuendo, go to *Device -> Device Setup -> VST Multitrack*.

Select *MAYA44 USB Audio ASIO driver* as ASIO device.



Reason

Launch Reason and go to *Edit > Preferences > Page > Audio*, then choose the *MAYA44 USB Audio ASIO driver*.



WaveLab

To use MAYA44 USB with WaveLab, open the application and select *Option -> Preferences -> Audio Card*. Choose *MME-WDM USB Audio* as *Playback and Record device* as shown in the following diagram. Or you can also choose *Maya44 USB Audio ASIO driver* as playback and Record device as shown in the second following diagram.

