

MATRIX
AUDIO

X-SPDIF

USB DIGITAL AUDIO INTERFACE

USER MANUAL

INTRODUCTION

MATRIX X-SPDIF is a high-quality digital USB audio interface for PC.

X-SPDIF is using the XMOS X-CORE 32Bit/500MIPS digital signal processing unit which is used in the field of professional audio, powerful multi-core multi-threaded processing capabilities, it's the most advanced USB Audio Class 2.0 digital audio solution now.

X-SPDIF has a low jitter dual-frequency of the local clock, using two high-quality crystals, work in the state of 44.1k and 48k and its multiples of the sampling rate, automatically by the system to switch control to ensure that the local clock with each other without interference and reliable independent operation.

X-SPDIF digital coaxial and AES/EBU output with a professional interface protocol line driver chip to ensure maximum signal integrity, and the output of the electrical isolation design to ensure that the end of complete electrical isolation of the output with computer USB port, the backend equipment away from the computer ground to eliminate computer noise on the sound quality.

X-SPDIF use Thesycon customized driver, to achieve USB Audio Class 2.0 24Bit/192k signal asynchronous transmission and playback, support low latency ASIO, KS and other professional audio software interfaces, support for windows and MAC OS X.

DRIVER INSTALLATION AND CONFIGURATION

1. Install Matrix X-SPDIF driver for windows.

Find and double click "setup.exe", click "Next".

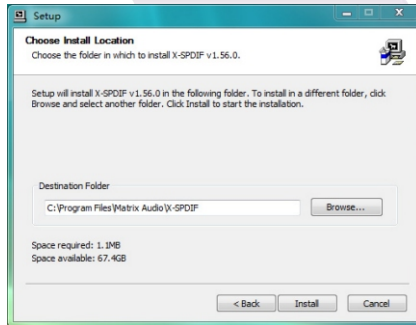


Please unplug and replug USB cable, click "Next".

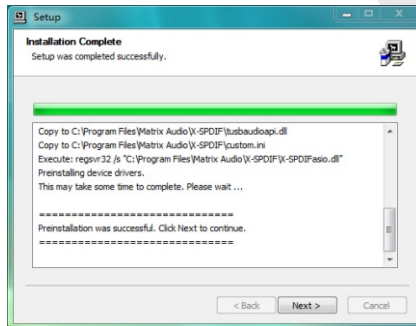


DRIVER INSTALLATION AND CONFIGURATION

Click "Install" and start installing the driver for X-SPDIF.



Installation is complete, click "Next".

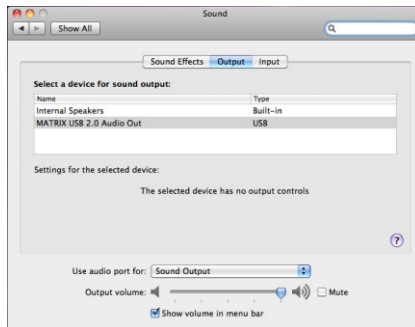


DRIVER INSTALLATION AND CONFIGURATION

Click "Finish", installation is done.



2. There is no need for driver installation based on Mac OS X 10.6.4 above, Go to "SYSTEM PREFERENCES", click on "SOUND", choose "MATRIX USB 2.0 Audio Out", you are ready to use play software on your Mac OS X.



DRIVER INSTALLATION AND CONFIGURATION

3. Playback Software Configuration

Example: add X-SPDIF ASIO or WASAPI output device in foobar2000.

- Please install the play software foobar2000 on your PC.
- Please go to <http://www.foobar2000.org>, click "component" and download components of "ASIO support" or "WASAPI output support".
- Please open and unzip the file, named "foo_out_asio.zip".
Please save the file into C:→Program Files→foobar2000→components.
Please go to above folder and check if there is "foo_out_asio.dll" in it.
- Please start "foobar2000", go to: "File→Preference→Playback→Output→Device", click "ASIO: Matrix Audio X-SPDIF ASIO" or "WASAPI: X-SPDIF".

SPECIFICATIONS

USB INPUT

XMOS X-CORE 32Bit/500MIPS multi-core processing unit.

USB Audio Class 2.0(480 Mbit/s).

Asynchronous data transfer mode.

Dual frequency low jitter local clock.

Sample rates: 16-24Bit, 44.1 kHz\48 kHz\88.2 kHz\96 kHz\176.4 kHz\192kHz.

DIGITAL OUTPUT

COAX 75 Ohms, gold plated RCA connector.

AES/EBU 110 Ohms, gold plated XLR connector.

SYSTEM REQUIREMENTS

Customized windows driver: Windows XP\Windows Vista\Windows 7.

Natively supported by Apple Mac OS X.

DIMENSION

83mm×83mm×37mm (L×W×H)

WEIGHT

310g

NOTE: Specifications subject to changes without prior notice.

CUSTOMER SERVICE

From the date of purchase, **MATRIX** provides you with a one-year-limited warranty.

This warranty is confined to the malfunction of our products which is due to the quality problems of the original components or manufacturing issues.

Any failure and losses result from ignoring the cautions mentioned in this instruction or misusing as follows are NOT covered by the warranty:

- Inappropriate connection to the power.
- Attempts to disassemble the product.
- Circuit modification done by customer.
- Unauthorized replacement of the original components.
- Other unauthorized changes done by customer.
- Damage of the accessories.

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