



Asus Xonar Essence STU User Manual

Hi-fi usb dac (digital-to-analog converter)

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Xonar Essence[®] STU

*Hi-Fi USB DAC (Digital-to-Analog
Converter)*

User manual ®

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Summary of Contents for Asus Xonar Essence STU

[Page 1: User Manual](#)

Xonar Essence STU Hi-Fi USB DAC (Digital-to-Analog Converter) User manual...

[Page 2](#) Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification or alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

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[Page 4: Introduction](#)

Introduction Xonar Essence STU USB DAC is ASUS Xonar's innovative response to the world-wide trend of PC Hi-Fi. With PC audiophile's number growing fast according to the convenience and high resolution of digitalized audio contents, Xonar Essence product line is committed to provide solution for their needs to enjoy extreme high-fidelity music with any PC.

[Page 5: Safety Information](#)

ASUS Xonar Essence STU...

[Page 6: Wet Location](#)

Disconnect Device - The Main Plug or an Appliance Coupler The mains plug or an appliance coupler is used as the disconnect device for disconnection from the mains, the disconnect device shall remain readily operable. ASUS Xonar Essence STU...

[Page 7: Driver Installation](#)

Driver installation After connecting ASUS Xonar Essence STU with your computer by the bundled USB cable, you need to install the device driver that enables the Xonar Essence STU to work with Windows operating system. NOTES: • The driver is only needed when you connect ASUS Xonar Essence STU with PC/NB.

[Page 8: Functionality](#)

Need to install driver in your PC/NB to work • Select "USB" in front panel as the input source HP GAIN AUX IN TOSLINK COAXIAL DC IN DIGITAL INFUT Mini-USB B-A type connector Desktop PC Notebook PC ASUS Xonar Essence STU...

[Page 9: Stand Alone Dac](#)

DIGITAL INFUT Headphone amplifier Grants 100% performance of ALL hi-end headphones, even with impedance up to 600ohms, providing extra dynamics and sound details. Steps: • Connect with high-quality headphones/headsets BIT PERFECT Headphone Gain POWER INPUT 6.3mm connector Headphones/headsets ASUS Xonar Essence STU...

[Page 10: Front Panel](#)

Headphone Gain indicator The LED will light up based on the selected headphone gain setting. Headphone output Connect your high-quality headphones/headsets with 6.3 mm connector. Use a 6.3 mm/3.5 mm connector if your headphones/headsets have 3.5 mm ports. ASUS Xonar Essence STU...

[Page 11: Rear Panel](#)

2.0). You cannot connect a Dolby Digital 5.1 or a DTS signal as they will not be recognized. If you wish to connect a DVD or similar device, please ensure that the sound output of your player is set to two-channel PCM. ASUS Xonar Essence STU...

[Page 12](#) USB port Connect a PC via a Type B to Type A USB lead. NOTE: You need to install the device driver that enables the Xonar Essence STU to work with Windows operating system. Power port (AC in) Plug the supplied power adapter into the Xonar Essence STU once you have completed all connections.

[Page 13: Hardware Introduction](#)

S/PDIF receiver: TI PCM9211 (for digital input) DAC: TI PCM1792A Swappable Op-amps: LME49720 x2 Swappable Op-amps: LM4562 x1 Swappable Op-amps: OPA2132 x1 Film Cap (red ones): WIMA FKP2 Op-amps: LM4562 (for Speaker out) Headphone Amplifier: TPA6120A2 (for Headphone out) ASUS Xonar Essence STU...

[Page 14: Connections](#)

Desktop PC Notebook PC (1) Connect a USB 'B-A' type lead (as illustrated at left) from the Xonar Essence STU's USB input to one of the USB ports on the PC/NB. (2) Turn on the Xonar Essence STU using the front panel On/Off switch and make sure that the USB input is selected (USB LED lit).

[Page 15: Digital Audio Input Connections](#)

If you wish to disconnect your Xonar Essence STU and return to using your previous soundcard, etc., simply disconnect it or switch off the power on the front panel. If the PC fails to disable the Xonar Essence STU and automatically re-enable your default soundcard, you can manually disable the Xonar Essence STU in the hardware device manager.

[Page 16: Output](#)

TOSLINK COAXIAL DC IN DIGITAL INFUT Unbalanced Input Amplifier (1) Connect the unbalanced input of an amplifier to the unbalanced (RCA/Phono) output of the Xonar Essence STU. (2)

Connect the amplifier to a Passive Speaker System. ASUS Xonar Essence STU...

[Page 17: With Active Speaker Directly](#)

With Active Speaker directly HP GAIN AUX IN TOSLINK COAXIAL DC IN DIGITAL INFUT Active Speaker System Connect Xonar Essence STU with a set of active speakers directly. With Headphone/Headset BIT PERFECT Headphone Gain POWER INPUT 6.3mm connector Headphones/headsets Connect Xonar Essence STU with high-quality headphones/headsets directly.

[Page 18: Specifications](#)

Balanced / Un-balanced I/V LME49720 Balanced / Un-balanced LFP LM4562 Headphone TPA6120A2 Output impedance Line out 100 ohm Headphone out 10 ohm Clock Crystal clock 12MHz Oscillator 45.1584MHz (for 44.1KHz sample rate) continued on the next page ASUS Xonar Essence STU...

[Page 19](#) 2-pin Tact switch Accessories Power cord x1 Power adaptor x1 USB cable x1 Accessories Product Stand x1 6.3mm to 3.5mm adaptor x1 User manual x1 Installation driver CD x1 * Specifications are subject to change without notice. ASUS Xonar Essence STU...