

Xonar DX

- **Overview**
- **Specifications**

Print

- **Audio Performance**

Output Signal-to-Noise Ratio (A-Weighted):

116dB for front-out, 112dB for other channels dB

Input Signal-to-Noise Ratio (A-Weighted):

112 dB

Output THD+N at 1kHz:

0.00056% (-105dB) for Front-out

Input THD+N at 1kHz:

0.0004% (-108dB) for Line-in

Frequency Response (-3dB, 24-bit/96kHz input):

<10Hz to 48KHz

Output/Input Full-Scale Voltage

2 Vrms (5.65 Vp-p)

- **Main Chipset**

Audio Processor:

ASUS AV100 High-Definition Sound Processor (Max. 192KHz/24bit)

24-bit D-A Converter of Digital Sources:

Cirrus-Logic CS4398*1 for Front-Out (120dB SNR, Max. 192kHz/24bit), Cirrus-Logic CS4362A*1 for other 6 channels (114dB SNR, Max. 192kHz/24bit)

24-bit A-D Converter for Analog Inputs:

Cirrus-Logic CS5361* 1 (114dB SNR, Max. 192kHz/24bit)

- **I/O Ports**

Analog Output Jack:

44.1K/48K/96K/192KHz @ 16/24bit, Dolby Digital, DTS

Analog Input Jack:

3.50mm mini jack *1 (Shared by Line-In/Mic-In)

Other line-level analog input (for CD-IN/TV Tuner):

Supports 44.1K/48K/96K/192KHz @16/24bit with very low latency

Digital S/PDIF Output:

High-bandwidth TOS-Link optical transmitter (shared with Line-In/Mic-In jack) supports 192KHz/24bit

- **Driver Features**

Operation System:

Windows Vista/XP(32/64bit)/MCE2005

Dolby® Technologies:

Dolby® Digital Live

Dolby Digital Live encodes any audio signal on PC in real-time to Dolby Digital (AC3) 5.1 surround sounds to your home theater environment through one single S/PDIF connection

Dolby® Headphone

Dolby Headphone technology allows users to listen to music, watch movies, or play games with the dramatic 5.1-channel surround or realistic 3D spacious effects through any set of stereo headphones.

Dolby® Virtual Speaker

Dolby Virtual Speaker technology simulates a highly realistic 5.1-speaker surround sound listening environment from as few as two speakers.

Dolby® Pro-Logic IIx

Dolby Pro-Logic II is the well-known technology to process any native stereo or 5.1-channel audio into a 6.1- or 7.1- channel output, creating a seamless, natural surround soundfield.

Smart Volume Normalizer™:

Smart Volume Normalizer™

Normalizes the volume of all audio sources into a constant level and also enhances your 3D sound listening range and advantages in gaming

Xear 3D™ Virtual Speaker Shifter:

Virtual 7.1 speaker positioning

Magic Voice™:

Xonar D1 provides VocalFX, the latest vocal effect technologies for gaming and VoIP, including:
-VoiceEX: produces vivid environmental reverberation for your voice in EAX games
-ChatEX: emulates different background environment effects when you chat online
-Magic Voice: changes your voice pitch to different types (Monster/Cartoon...) for disguising your real voice or just for fun in online chatting

Karaoke Functions:

Music Key-Shifting and Microphone Echo effects like professional Karaoke machine

FlexBass™:

Professional Bass Management/Enhancement system

3D Sound Engines/APIs:

Vista: DirectSound3D® GX 2.5, DirectSound® HW, DirectSound SW, A3D® 1.0, OpenAL generic modes, 128 3D sounds processing capability

XP: DirectSound2.5 SW, A3D® 1.0, OpenAL generic modes, 128 3D sounds processing capability

DS3D GX2.0:

DS3D GX 2.5 gaming sound effects and DirectSound 3D hardware enhanced functions on Windows Vista. (DirectX/DirectSound 3D compatible)

- **Bundled Software Utility**

RightMark Audio Analyzer 6.0.6:

Easy but powerful software intended for testing the quality of audio equipments

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