



Asus Xonar D2 Test Manual

7.1 channel audio card 192khz/24bit duplexhd featuring dolby and dts technologies for home entertainment, rmaa 6.0.5 test guide and results

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Xonar D2

7.1 Channel Audio Card
192KHz/24Bit DuplexHD

*Featuring Dolby
Entertainment*

RMAA 6.0.5 Test Guide and Results

®

and DTS

®

*XONAR™
Technologies for Home*

Revision: 1.1

Date: Aug. 10, 2007

TM

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Asus xonar d2 audio card user manual (84 pages)

[Sound Card Asus Xonar D2 Installation Manual](#)

(80 pages)

[Sound Card Asus Xonar D2 Installation Manual](#)

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7.1 pcie audio card (53 pages)

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Mobile headphone amp usb soundcard (38 pages)

Summary of Contents for Asus Xonar D2

[Page 1](#) Xonar D2 7.1 Channel Audio Card 192KHz/24Bit DuplexHD Featuring Dolby ® and DTS ® Technologies for Home Entertainment RMAA 6.0.5 Test Guide and Results Revision: 1.1 Date: Aug. 10, 2007...

[Page 2](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 The Xonar D2 driver CD

includes RightMark Audio Analyzer (RMAA) v.5.6, popular software intended for testing the quality of audio equipment, be it a sound card, portable MP3 player, consumer CD/DVD player, or a speaker system. However, the latest RightMark Audio Analyzer v6.0.5 is available now.

[Page 3](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 4. Go to the Mixer Recording page and select "ALT" as the recording source. Click "Reset" make sure the recording volume is on the default highest level (0dB). This is actually a high-quality onboard loop-back path from the Line-out directly to the Line-In.

[Page 4](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 Note: You may also choose to use an external 3.5mm line cable as follows (as short as possible) to connect the Front-Out jack to the Line-In jack for loop-back testing. In that case, please select "Line In"...

[Page 5](#) Xonar D2 Audio) and recording device as "[MME] ASUS Xonar D2 Audio". (Please also mind that NOT to select "ASUS Xonar D2 Audio Converter", which is for ALT and PMP purpose.) Copyright © ASUSTek Computer Inc. All Right Reserved <http://www.asus.com/>...

[Page 6](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 2. Select 24bit and 48KHz for the test signals. (If you change the format here, please remember to go back to set the SAME sample rate output in the Xonar D2 Audio Center.

[Page 7](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 If the recording volume level is not high enough, please check and make the WAVE and Master Volume have been at the maximum level; Instead, if the recording volume level is too high, please lower the WAVE and Master volumes gradually until the level is ok.

[Page 8](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 7. Select one empty slot to save the data and you may change the name. Then click "OK". 8. RMAA will pop up the Test results window. ou can click the "Select" checkbox and click to "Make html report".

[Page 9](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 3. RMAA Testing Results The following tables copied from RMAA disclosed the complete test data results for DirectSound_16bit, DirectSound_24bit, MME_16bit, and MME_24bit. Each table contains 44.1K, 48K, 96K, and 192 KHz sample rate tests. Generally speaking, Xonar D2 can achieve up to 116dB SNR for 24-bit and up to 102dB SNR for 16bit in RMAA loop-back test.

[Page 10](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 DirectSound 24-Bit Test Results MME 16-Bit Test Results Copyright © ASUSTek Computer Inc. All Right Reserved <http://www.asus.com/> P.10...

[Page 11](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 MME 24-Bit Test Results Copyright © ASUSTek Computer Inc. All Right Reserved <http://www.asus.com/> P.11...

[Page 12](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 4. HTML Test Reports You can review the HTML report including the graphics for the test plots. Open the html file you created and saved in the test above (section 2), and it will display the report with both data and plots in your browser.

[Page 13: Frequency Response](#)

ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 IMD at 10 kHz, % 0.0005 Excellent General performance Excellent Frequency response From 20 Hz to 20 kHz, dB -0.11, +0.09 From 40 Hz to 15 kHz, dB -0.04, +0.08 Noise level Copyright ©...

[Page 14: Dynamic Range](#)

ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 Left Right RMS power, dB -115.0 -115.2 RMS power (A-weighted), dB -116.2 -116.4 Peak level, dB FS -92.8 -93.2 DC offset, % -0.0 -0.0 Dynamic range Copyright © ASUSTek Computer Inc. All Right Reserved <http://www.asus.com/>...

[Page 15: Intermodulation Distortion](#)

ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 Left Right Dynamic range, dB +115.0 +115.1 Dynamic range (A-weighted), dB +116.2 +116.3 DC offset, % -0.00 -0.00 THD + Noise (at -3 dB FS) Left Right THD, % +0.0003 +0.0003 THD + Noise, % +0.0005...

[Page 16: Stereo Crosstalk](#)

ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 Left Right IMD + Noise, % +0.0010
+0.0009 IMD + Noise (A-weighted), % +0.0005 +0.0004 Stereo crosstalk Left Right Copyright
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[Page 17](#) ASUS Xonar D2 Audio Card RMAA6.0.5 Test Guide V.1.1 Crosstalk at 100 Hz, dB -116
-112 Crosstalk at 1000 Hz, dB -115 -114 Crosstalk at 10000 Hz, dB -112 -112 IMD (swept tones)
Left Right IMD + Noise at 5000 Hz, 0.0006...