**Features**

- Outstanding price/quality ratio
- Excellent sound
- True balanced circuitry throughout complete signal path
- Dual mono digital-to-analog-converter (2 x BurrBrown PCM1796 Delta-Sigma 24-bit converter)
- Single-ended advanced Class-A, no cross-over distortion, no overall-feedback (no NFB), pristine signal quality
- Fully discrete amplifier stages (no OP-amp devices, but single transistors) designed with proprietary specifications
- 192kHz/24bit Upsampling including JitterEx high-precision reclocking for Jitter reduction (can be switched off)
- Adaptable sound characteristic by selectable digital filters
- Oversampling rates selectable: 32, 64 and 128 fs
- Digital inputs: - COAX, TOSLINK, AES/EBU (no transformer) - USB 1.1 (2.0 compatible) in-/output For all sound file formats: WAV, MP3, FLAC, OGG many more.
- Analog outputs: balanced XLR and unbalanced RCA (Cinch)
- High-end headphone amplifier, fully discrete Class-A design
- Ultra clean power supply: multiple filter stages, insensitive to contaminated AC-power
- Machined all-alu case Color: black or silver, blue LED´s
- 19” rack-mounts available
- Designed in Germany

**Accessories:** AQVOX CONNECTIONS - High-End Audio Cables NF: RCA, XLR • Digital: COAX, Toslink, AES/EBU, USB Phone: RCA, XLR, 5-pole • Customization AQVOX SOFTWARE Win + Mac - Audiophile Audio Driver Musicplayer • Musikdatabase • Ripping • Music Manager

**Technical Specifications**

**Digital inputs:**
- COAX-S/PDIF: 16bit/32kHz - 24bit/192kHz (electrical)
- AES/EBU: 16bit/32kHz - 24bit/192kHz (balanced)
- TOSLINK: 16bit/32kHz - 24bit/96kHz (optical)
- USB: 1.1 (2.0): 16bit/11kHz - 16bit/48kHz (In/Out to PC)

**Input Impedance:**
- COAX: 75 Ohm
- AES/EBU: 110 Ohm

**Analog outputs:**
- Cinch/RCA unbalanced: 2 Vrms Output Voltage
- XLR balanced: 2 Vrms Output Voltage

**Frequency Range:**
- 20 Hz to 20 kHz +/-0.03dB
- 20 Hz to 20 kHz +/-0.008% at 100 Ohm

**Output Impedance:**
- Cinch/RCA: +8 dBu
- XLR: +14dBu

**Output Level:**
- Front level control and plug socket

**Frequency Range:**
- 20 Hz to 20 kHz +/-0.5dB

**THD+Noise:**
- <0.03% at 32 Ohm / <0.008% at 100 Ohm

**Signal-to-Noise Ratio:**
- 110dB at max. volume

**192kHz/24bit - Passive Filter**

**Settings:**
- UPSAMPLING: 192kHz and Reclocking / or OFF
- DITHER: ON / OFF
- DIGITAL FILTER: PULSE, FLAT
- PHASE: 0°, 180°
- OVERSAMPLING: 32fs, 64fs, 128fs

**Measurements:**
- Signal/Noise: 117dB at XLR-Output
- THD: 0.003% at XLR (32fs), 0.010 at RCA
- Jitter: 110ps over all Toslink • peak to peak

**Supplied Voltage:**
- 90-140V-AC or 220-240V-AC / 50-60 Hz

**Dimensions:**
- (B / H / T) ca. 435 x 59 x 290 mm

**Weight:**
- 2.8 kg

**Power Consumption:**
- 5 W
"Sound Lift" for your Audio Player
The USB2D/A DAC is ideal for music lovers who would like to bring their older high-end or midfi CD-, DAT- or DVD-player to the latest high-end level.
COAX, TOSLink or AES/EBU output is required.

Enjoy Broadcasts the High-End Way
Turn the sound of webradio or video broadcasts, including satellite or terrestrial DVB, into a true high-end experience by combining your receiver with the USB2D/A.
Please note: Due to losses caused by data reduction, some broadcasts do not exactly reach high-end quality, however those broadcasts still sound improved when listened to via the USB2D/A.

Turn your PC, Laptop or Mobile Player into a High-End Jukebox
Reexperience the sound of your music files or Web-Radio via the USB connection of the AQVOX DAC. A bit-accurate signal output can be achieved by using an ASIO driver. More information at www.aqvox.com
Please note: Due to losses caused by data reduction, MP3 and other data reduced audio file formats do not exactly reach high-end quality, however those formats still sound improved when played back via the USB2D/A. Formats like WAV, FROG, or AIFF are lossless without reduction. FLAC preserves the original data hundred per cent while compressing them to roughly 1/2 to 1/3 the size of uncompressed WAV files.

Compatible with Pro Audio Equipment
Featuring an AES/EBU digital input and a balanced XLR analog output, the USB2D/A is an ideal monitoring device for recording and mastering.

Fine-tune the Sound
Use digital filters to optimize your sound for linearity or dynamics. The switchable dither function resolves the subtlest signal information and the selectable oversampling rates add flexibility.

Audiophile Headphone Amplifier
A fully discrete (no OP-amp) Class-A headphone amplifier makes the USB2D/A even more versatile. Enjoy finest audio quality from all your digital sources directly through your headphones.

Analysis of Room Acoustics
An integrated microphone amplifier with an analog-to-digital converter allows you to use a measurement microphone with corresponding software to carry out analysis of room acoustics or to tune your speakers for sound optimization.

Single-Ended Advanced Class-A
No Overall Negative Feedback
In the discrete assembly of the analog output stages a special circuitry prevents the transistors from passing through their voltage and current characteristics. Furthermore the Single-Ended Advanced Class-A principle prevents transistor from cross-over distortion. Thereby, the production of dynamic distortions is being avoided throughout the whole signal processing, so that an application of overall negative feedback (NFB) is not necessary. The achievement is a pristine signal quality.

Direct Output Coupling
Via just one current amplifier stage per channel, the analog output of the USB2D/A is quasi directly coupled to the two stereo PCM1796 BurrBrown DAC chips. Thus, the signal path of the output stage is extremely short, resulting in an amazingly natural and dynamic sound reproduction.

192kHz/24bit Upsampling
JitterEx High-Precision Reclocking
All incoming digital signals are being resampled to 192kHz/24bit and reclocked by a high-precision master clock (function can be switched off). After the “Upsampling” the signal is passively filtered and downsampled to the original value. Upsampling allows the application of a noise shaping filter with a threshold far beyond human hearing. Furthermore the reclocking circuit reduces digital jitter to a minimum. Despite the high quality of this upsampling-solution, AQVOX does not recommend to use it for high-quality sources. For HighEnd sources the bypass switch should be enabled. Sources below highend do sound better with upsampling enabled.

Excellent Sound Quality
The construction details of the USB2D/A altogether result in a never fatiguing, very smooth and natural, yet superbly transparent and dynamic sound, with a tight bass and precise imaging.

More information and reviews at: www.aqvox.com