The DAC501 is our new state of the art D/A Converter with an unprecedented level of sophistication and versatily.

With the DAC501 we are creating a new paradigm for what used to be a black box device. A typical D/A Converter is a "set and forget" device. Not so with the DAC501. It adds a number of interesting signal processing features and sports a variety of digital inputs. Balanced, unbalanced and headphone outputs are provided.

Weiss Engineering has a 30 year history in D/A Converter design. In that time span we have learned a thing or two about converter design. The DAC501 is the essence of our experiences.

A short overview of the DAC501's features.

Inputs
- AES/EBU or S/PDIF via XLR, Toslink and RCA
- UPnP / DLNA (via Ethernet)
- USB
- Accepted formats: PCM 44.1kHz up to 384 kHz, DSD 64x / 128x

Outputs
- Line out unbalanced on RCA connector
- Line out balanced on XLR connector
- Headphone out on 1/4" Jack

Analogue
- One of the latest 32 bit D/A Converter chips is used
- Discrete output stages for both line and headphone outputs

Signal Processing
The DSP algorithms can be different depending on which output is selected (line or headphone). Some DSP algorithms have to work differently if they are used for headphones in comparison to speakers.

- Creative Equalizer - A tone control with low boost/cut, high boost/cut and mid boost/cut. Very useful to correct those recordings which do not quite fit your taste.
- De-Essing - The automatic removal of overly bright sibilances from human voices. The sibilance effect can be more or less pronounced depending on your speakers or room acoustics.
- Constant Volume - Adjusts the audio volume (loudness) to a constant value across all tracks played. Useful for "party mode" when the volume control should stay untouched.
- Vinyl Emulation - Get that special sonic character of a record player based playback chain.
- Crosstalk Cancelling (XTC) - For the playback of dummy head recordings or live recordings via speakers for an incredible live sensation. (For speaker based playback only.)
- Out Of Head Localization algorithm - Tries to get the music "out of your head" when listening via headphones. The goal is to achieve a similar listening sensation as one gets when listening via speakers. (For headphone based playback only.)

Controls
The DAC501 is operated via the rotary encoder control on the faceplate, the touch sensitive colour LCD display or the IR remote control. Some additional settings can be done via a web interface from any computer.

Mechanics
The DAC501 has a similar size as our DAC202 unit. The DAC502 version is a larger size unit, similar to our MAN301 unit. The features of the DAC502 are the same as the ones of the DAC501.