miniDSP

Features

- Dirac Live® @ 96 kHz
- Low power & small form factor
- Floating point DSP

Hardware

- Analog Devices SHARC DSP
- 32-bit floating point processing
- Stereo digital inputs (AES-EBU/SPDIF/Optical)
- Stereo analog outputs (XLR)
- ASRC for 20 to 216 kHz input
- Front panel volume control
- IR control with learning feature
- UMIK-1 calibrated USB measurement microphone

Software Control

- Real time live control from Dirac Live Calibration Tool Stereo for miniDSP (Win/Mac)
- Firmware upgradeable
- 4 preset memory store onboard

Power

- Single external 5VDC supply
- Low power (3W)

Applications

- Stereo room correction
- Dual/Single subwoofer tuning
- Studio tuning
- Mobile Audio

Introducing the Dirac Series of high-resolution audio processors, powered by Dirac Live®, the world's premier room correction solution. We are delighted to offer you this software and hardware combination, the fruit of many years of experience in sound system tuning and extensive research and development.
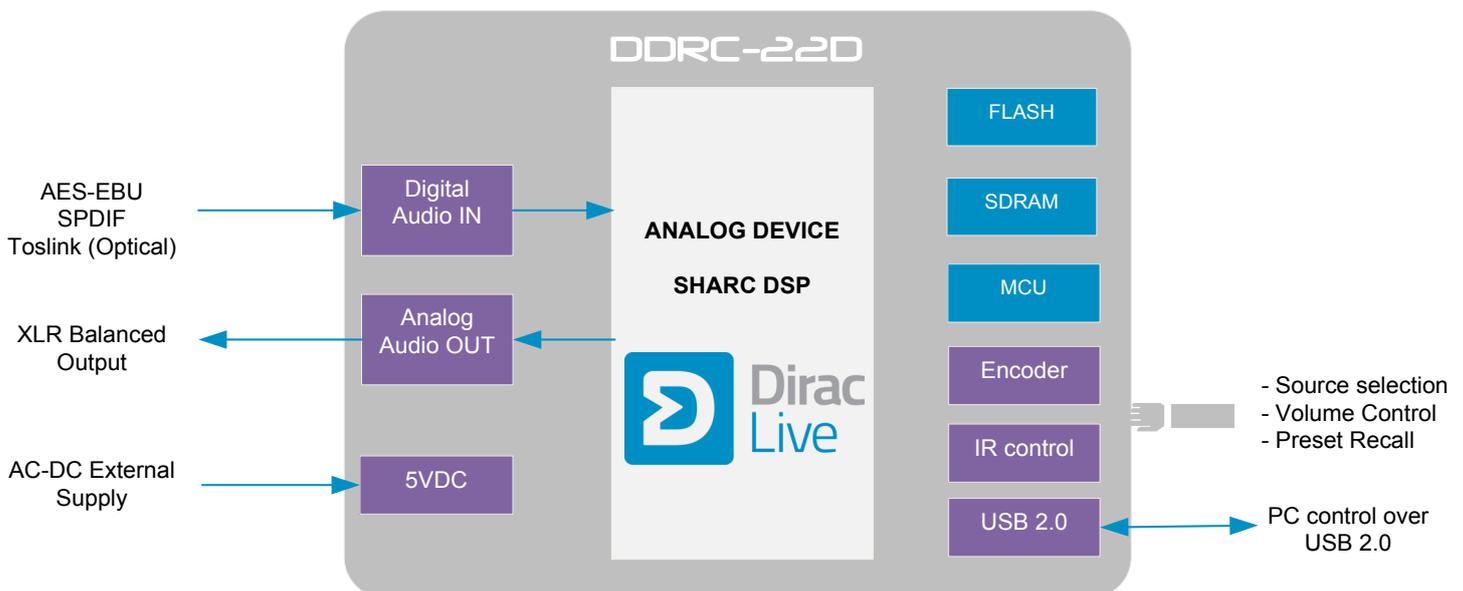
The DDRC-22DA is the stereo, Digital input to Analog output member of the Dirac Series. AES-EBU, SPDIF on RCA, and TOSLINK optical inputs are available. With its high-quality asynchronous sample rate convertor, the processor easily adapts to any input sample rate (up to 216 kHz). The internal digital room correction algorithms execute at 96 kHz, a world-first in such advanced room correction in this price range.

An infrared remote learning feature and the front panel rotary encoder allow for control of the DDRC-22DA processor without any need for a connected PC, once the processor is configured and filters loaded.

The DDRC-22DA is deployed in the digital signal chain and thanks to its internal DAC can be place last before the amplification. Benefits of deploying the DDRC-22DA with Dirac Live® include improved imaging and clarity, tighter bass and reduction of room resonances, elimination of early reflections, and reduced listening fatigue.

SYSTEM DIAGRAM

www.minidsp.com

miniDSP

miniDSP

HARDWARE SPECIFICATIONS

Item	Description
Digital Signal Processor	32bit Floating point Analog Devices SHARC ADSP21369 / 333MHz
Control	Driverless USB 2.0 control interface for Windows/Mac OSx environments A computer is only required for the initial configuration.
Digital Audio inputs	Digital audio source selectable from IR remote or Front panel: - AES-EBU on Neutrik 3pin female XLR / Isolated with digital audio transformer - SPDIF on RCA connector / Isolated with digital audio transformer - Toslink on Optical connector The input signal is processed by a high quality onboard Asynchronous Sample Rate Converter for compatibility with most common sample rate (20-216kHz)
Analog Audio outputs	- Fully balanced audio on Balanced Neutrik XLR connector - ESS DAC 9023 with 112dB SNR - Max output: 2Vrms
Sample rate / Resolution	Resolution: 32bit Sample rate: 96kHz
Dirac Live Correction Suite for miniDSP	Plug&Play configuration from Dirac Live Calibration Tool for miniDSP * Impulse response correction * Frequency response correction * Freely edit target curve, unlimited break points * Automatic target functionality * Shows average measurements * Chair and sofa measurements for up to 9 measurements
FIR filter storage	Up to 4 filter configuration filters stored on unit
USB port	USB port type B for real time control and firmware upgrade
Power supply	5VDC single supply / 600mA @ 5V - 2.1 round plug
Dimensions (H x W x D) mm	41.5 x 214.5 x 200mm

MECHANICAL SPECIFICATIONS

Features and specifications are subject to change without prior notice