

Features

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

Hardware

- Analog Devices SHARC DSP
- 32-bit floating point processing
- Stereo analog input (XLR)
- Stereo analog output (XLR)
- 114 dB ADC/DAC converters
- 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
- Firmware upgradeable
- 4 preset memory store onboard

Power

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

Applications

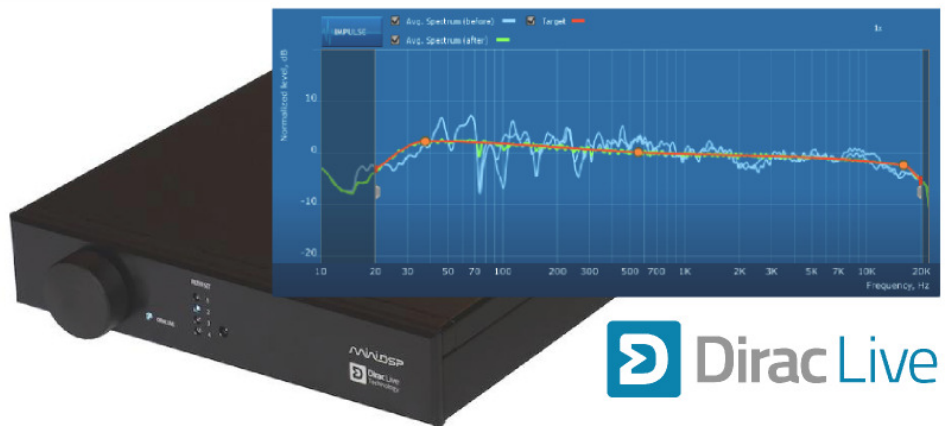
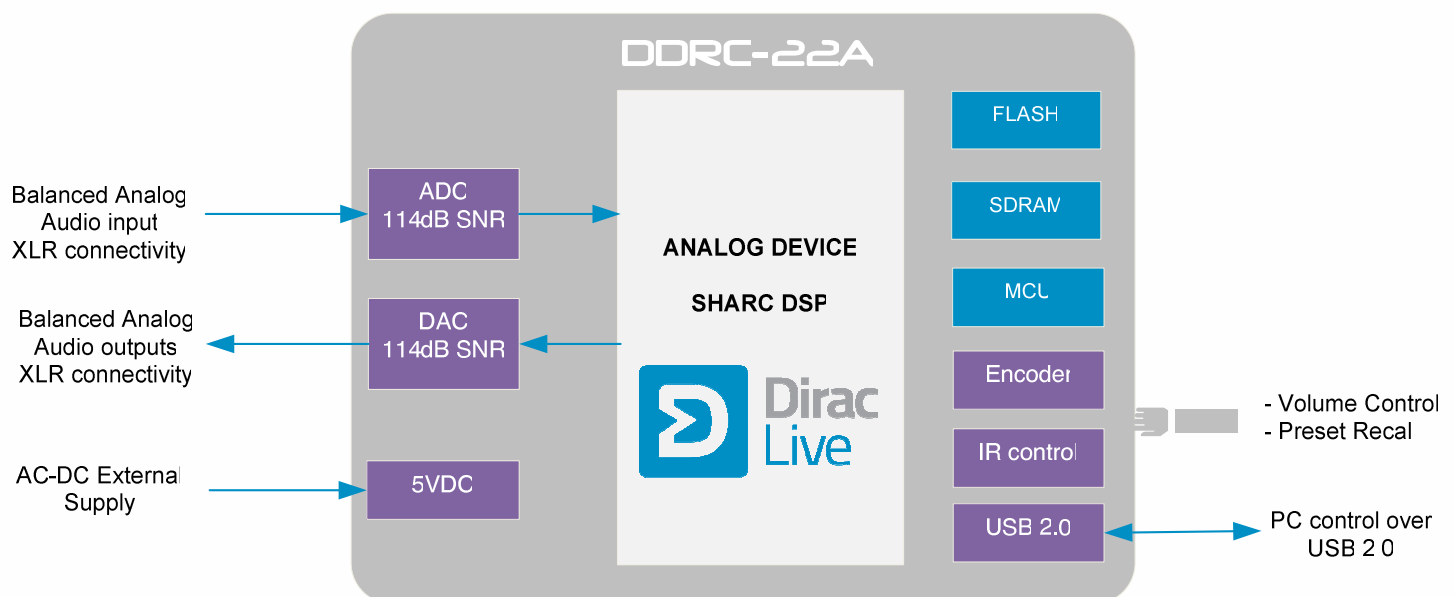
- Stereo room correction
- Dual/Single subwoofer tuning
- Studio tuning
- Mobile Audio

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-22A is the stereo, analog input-output member of the Dirac Series. Balanced input and output connections on Neutrik XLR connectors interface with high-resolution (24-bit 96 kHz) ADCs and DACs. 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-22A processor without any need for a connected PC, once the processor is configured and filters loaded.

The DDRC-22A is typically deployed in the analog signal chain just prior to power amplification—for example, between a preamp or mastering/mixing console and power amp. Benefits of deploying the DDRC-22A 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**

HARDWARE SPECIFICATIONS

| Item | Description |
|---|--|
| Digital Signal Processor | 32bit Floating point Analog Devices SHARC ADSP21369 / 333MHz |
| Control | Driverless USB 2.0 control interface for Windows environments A computer is only required for the initial configuration. |
| Analog Audio inputs | Balanced Audio connectivity on XLR Neutrik connector Pin 1 = Shield / Pin 2 = Hot / Pin 3 = Cold ADC IC performance: 114dB SNR Max balanced input level: 2Vrms (Jumper Closed) / 8Vrms (Jumper open) Input impedance: 40k Ohms |
| Analog Audio outputs | Balanced Audio connectivity on XLR Neutrik connector Pin 1 = Shield / Pin 2 = Hot / Pin 3 = Cold ADC IC performance: 114dB SNR Max balanced output level: 2Vrms Output impedance: 560 Ohms |
| 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

