

Features

- Premium car audio processor
- Dirac Live correction (8 channels)
- 6 x analog + 2 x digital inputs
- 12 x analog outputs

Hardware

- 400 MHz Floating Point DSP
- 32-bit audiophile converters

External control

- Wired external remote for volume control and preset recall
- I.R. remote for volume control and preset recall

Software Control

- USB 2.0 interface
- Plug & Play, Windows & Mac
- Easy SD card firmware upgrade

Power

- Isolated 12 VDC supply
- Remote IN/OUT with delay

Applications

- Mobile Audio DSP processor
- Battery powered systems
- Advanced system tuning

miniDSP is proud to introduce the new flagship C-DSP 8x12 DL in-car digital audio processor. Dirac Live® room correction, a 400 MHz SHARC floating-point processor and 32-bit AKM converters with -107 dB THD+N specification deliver pristine high-resolution audio in any cabin environment.

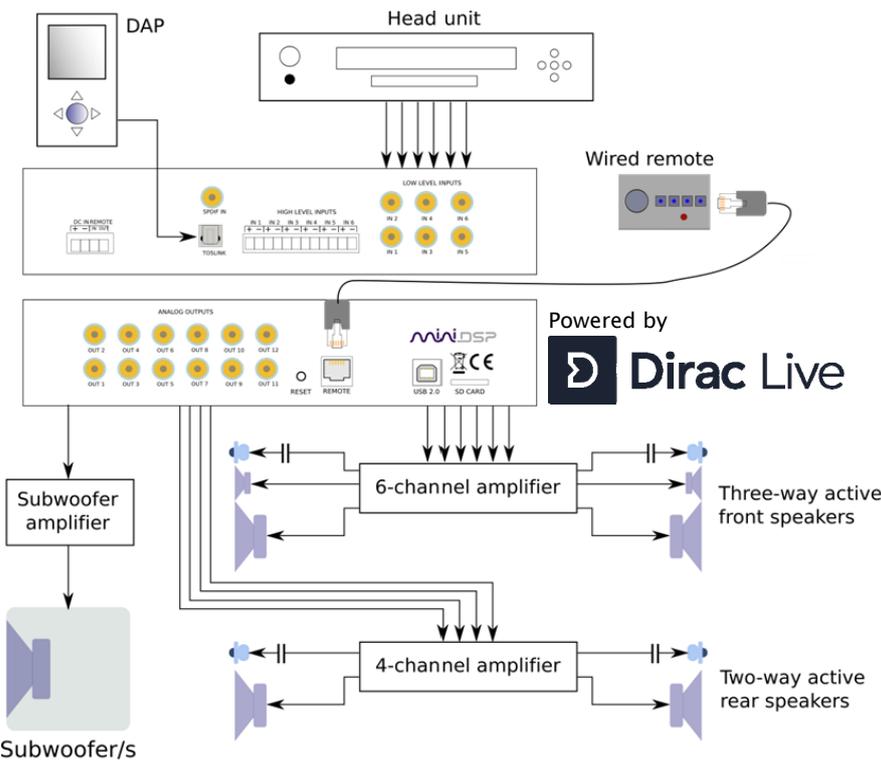
Comprehensive I/O includes six differential low-level analog inputs for low noise pickup, high-level inputs for connection to head units with power amplification, and stereo SPDIF and TOSLINK digital inputs. On the output side, 12 RCA outputs combined with a full eight channels of Dirac Live processing make the C-DSP 8x12 DL adaptable for active crossover systems as well as multichannel/surround installations with subwoofer integration.

Also included is miniDSP's powerful, easy-to-use audio processing: parametric EQ, compressors, adjustable time delay, crossovers up to 48 dB/octave, and an advanced matrix mixer with rear/center capability. Four complete configurations are stored in flash memory for recall with a wired or infrared remote.

Hardware features dedicated to the vehicle environment include an on-board isolated power supply, remote trigger input/output, a wired remote for dash or console mounting and a microSD card slot for offline configuration.

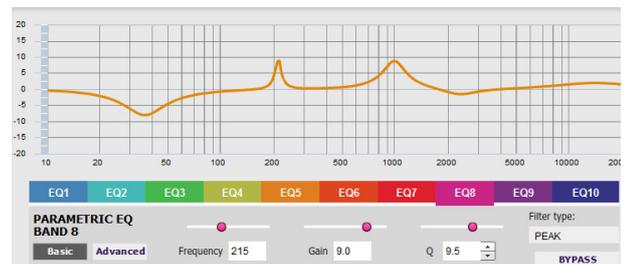


TYPICAL APPLICATION / SCREENSHOTS



	Output1	Output2	Output3	Output4	Output5	Output6
Input1	-10dB	Off	Off	Off	Off	Off
Input2	0dB	-6dB	Off	Off	Off	Off
Input3	Off	0dB	Off	Off	Off	Off
Input4	Off	Off	Off	0dB	Off	Off
Input5	Off	Off	Off	Off	0dB	Off
Input6	Off	Off	Off	Off	Off	0dB
Input7	Off	Off	Off	Off	Off	Off
Input8	Off	Off	Off	Off	Off	Off

Advanced Matrix Mixer for Rear Fill/Center effect



HARDWARE SPECIFICATIONS

Item	Description
Digital Signal Processor	400 MHz, 32-bit floating-point SHARC Digital Signal Processor (ADSP21489) Internal sample rate: 48 kHz.
Control	Driverless USB 2.0 control interface for control from Windows or Mac
Digital audio inputs	Software selectable SPDIF (RCA) or TOSLINK (Optical) / 44.1-192 kHz
Analog audio inputs	6 x high-level differential inputs (terminal block) . Selectable max level: 8 or 12Vrms / Zin: 68 Ω 6 x low-level differential inputs (on RCA) . Selectable max level via DIP switches: 2 or 4Vrms Zin: 10 kΩ (at 4V rms setting)
Analog audio outputs	12 x outputs on RCA connector with anti-pop mute circuit . Max output signal 4.5 V rms @ 0 dB FS / Zout = 560Ω . Measured THD+N 0.0007%, 115dB SNR
DSP processing	Dirac Live correction (8 ch), matrix mixer, miniDSP processing on all 12 outputs
Configuration presets	Four onboard presets for Dirac Live and miniDSP processing stored onboard
Wired external remote	External wired remote (RJ11 cable for power and data) selects active preset, master volume and master mute; LED indication of master volume and active preset.
microSD Card	Allows setup and firmware upgrade of the unit offline without a laptop.
Power supply / REM in&out	Isolated DC-DC conversion / 10-14 V DC compliant REM in (4 V DC trigger level) REM out / 12 V DC @ 100mA max current out Remote modes (1: Disabled 2: REM in trigger)
Dimensions (W x D x H)	41 x 205 x 122 mm
Enclosure	Powder-coated steel with removable brackets

MECHANICAL SPECIFICATIONS

