Features
- Premium car audio processor/ amplifier
- Dirac Live correction (8 channels)
- 6-channel USB digital input
- 2-channel optical digital input

Hardware
- 400 MHz Floating Point DSP
- 12ch multichannel class D amp

External control
- Wired external remote with OLED display 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

Power
- 12V battery with Remote IN

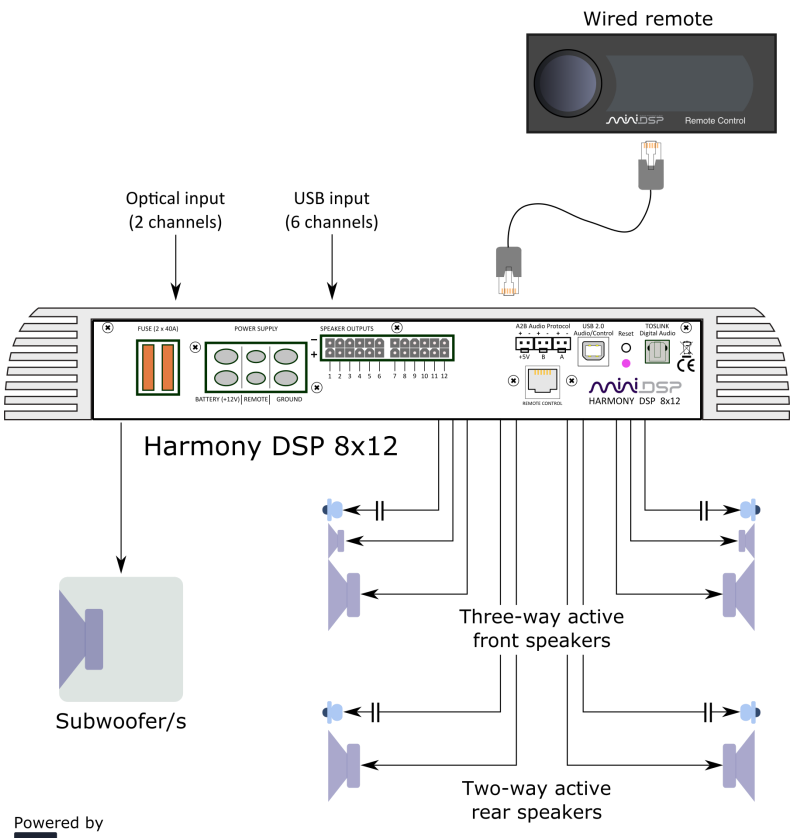
Applications
- Mobile Audio DSP processor
- Battery powered systems

miniDSP is proud to introduce the latest addition to its line of innovative car audio processors. The all-digital Harmony DSP 8x12 integrated DSP/amplifier features six-channels digital audio input via USB, stereo digital optical input, Dirac Live® acoustic correction, and 12 output channels.

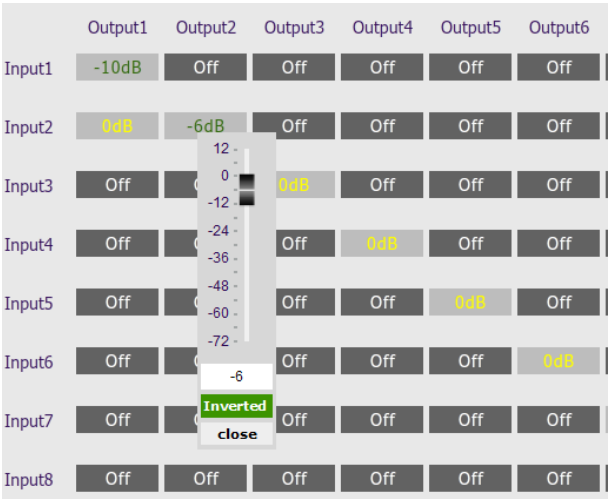
Hardware features dedicated to the vehicle environment include an on-board isolated power supply, remote trigger input/output, and a wired remote with OLED display for dash or console. Flexible output configurations cater to a wide variety of system configurations: each output can be a 40 W power amplifier or a line-level output for driving external amplifiers. In addition, each pair of outputs can be configured in parallel BTL mode for 80 W output into 2 Ω loads.

In addition to Dirac Live, the Harmony DSP 8x12 includes 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 processing configurations are stored in flash memory for recall with a wired or infrared remote.

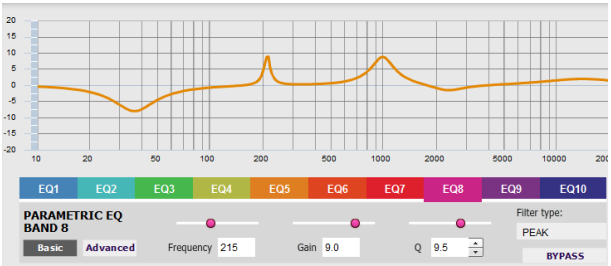
TYPICAL APPLICATION / SCREENSHOTS



Powered by Dirac Live



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	USB Audio, up to 6 channels at 44.1 or 48 kHz TOSLINK stereo audio, 44.1 to 192 kHz A2B® multichannel Audio (future option via firmware upgrade)
Digital audio outputs	A2B® multichannel for linking amplifiers (future option via firmware upgrade)
Power output	12 x 40 W RMS (4 Ω load, BTL mode) @1% 6 x 80 W RMS (2 Ω load, PBTL mode) @1% THD+N < 0.03 % (f = 1 kHz, 30 mW to 40 W, 4 Ω load, BTL mode) SNR >107 dB (f = 1 kHz, A-weighted, 40 W into 4 Ω) Frequency response: 20 Hz – 20 kHz ± 0.5 dB CrossTalk: < –80 dB (1 kHz)
Analog output mode	Selectable analog output mode from plug-in: • BTL mode for driving above 2 Ω loads (4 Ω nominal) • PBTL mode for driving within 1 – 2 Ω loads (2 Ω nominal) • Line out mode for driving external amplifier as line level signal
Line Out mode specs	Max output level: 5 V RMS balanced (in line out mode) THD+N < 0.03 % (f = 1 kHz, digital input 0 dB) SNR >102 dB (f = 1 kHz, A-weighted) Frequency response: 20 Hz – 20 kHz ± 0.2 dB
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, Dirac Live on/off; OLED status display.
Power supply / REM in&out	10 –16 V DC compliant REM in (4 V DC trigger level)
Dimensions (W x D x H)	321 x 150 x 45 mm (main unit), 102 x 23 x 41 (wired remote)
Enclosure	Powder-coated steel with aluminium heatsink

MECHANICAL SPECIFICATIONS