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.

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
### HARDWARE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Digital Signal Processor</td>
<td>400 MHz, 32-bit floating-point SHARC Digital Signal Processor (ADSP21489)  Internal sample rate: 48 kHz.</td>
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<tr>
<td>Control</td>
<td>Driverless USB 2.0 control interface for control from Windows or Mac</td>
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<tr>
<td>Digital audio inputs</td>
<td>Software selectable SPDIF (RCA) or TOSLINK (Optical) / 44.1–192 kHz</td>
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<tr>
<td>Analog audio inputs</td>
<td>6 x high-level differential inputs (terminal block)  6 x low-level differential inputs (on RCA)  Selectable max level via DIP switches: 2 or 4Vrms Zin: 10 kΩ (at 4V rms setting)</td>
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<tr>
<td>Analog audio outputs</td>
<td>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</td>
</tr>
<tr>
<td>DSP processing</td>
<td>Dirac Live correction (8 ch), matrix mixer, miniDSP processing on all 12 outputs</td>
</tr>
<tr>
<td>Configuration presets</td>
<td>Four onboard presets for Dirac Live and miniDSP processing stored onboard</td>
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<tr>
<td>Wired external remote</td>
<td>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.</td>
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<tr>
<td>microSD Card</td>
<td>Allows setup and firmware upgrade of the unit offline without a laptop.</td>
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<tr>
<td>Power supply / REM in&amp;out</td>
<td>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)</td>
</tr>
<tr>
<td>Dimensions (W x D x H)</td>
<td>41 x 205 x 122 mm</td>
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<tr>
<td>Enclosure</td>
<td>Powder-coated steel with removable brackets</td>
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</tbody>
</table>

### MECHANICAL SPECIFICATIONS

- 12VDC / REM In/ REM Out
- SPDIF/Optical digital input
- 6 High level inputs (Terminals)
- 6 Low level input (RCA)
- 12 x unbalanced outputs
- External Remote
- USB Control
- SD Card
- Dimensions (W x D x H): 41 mm x 205 mm x 122 mm