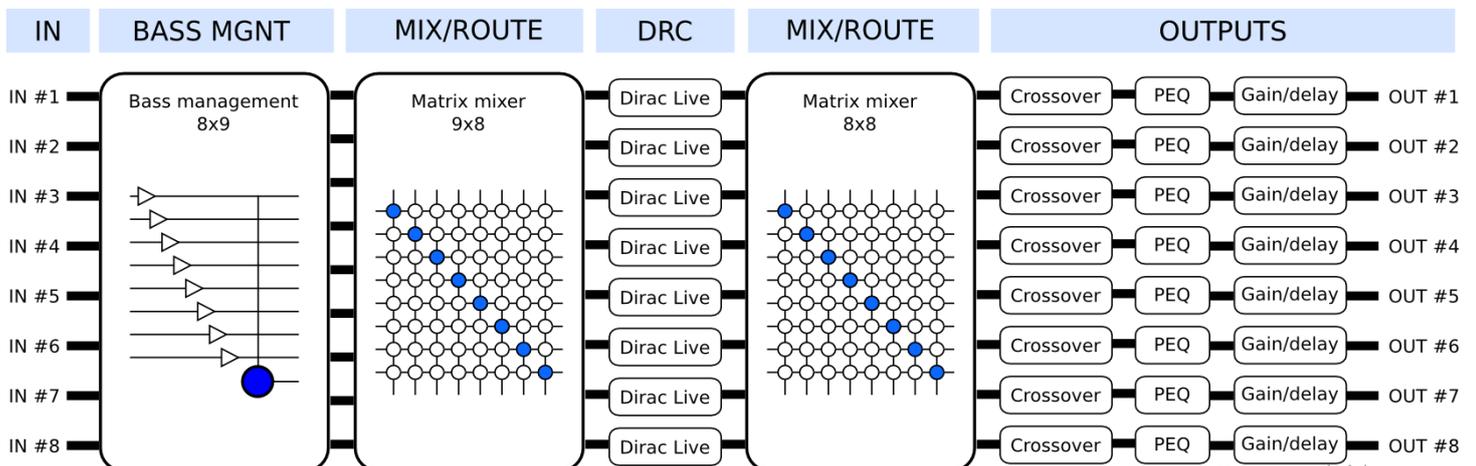**miniDSP**

The DDRC-88BM plug-in extends the capabilities of the DDRC-88A multichannel Dirac Live® processor. 100% compatible with all DDRC-88A units in the field, the DDRC-88BM adds comprehensive fine-grained bass management and crossover capabilities. The input signals are low-pass filtered and summed to generate the subwoofer signal; a matrix mixer routes or mixes these channels for the Dirac Live® algorithm, which in turn has its outputs routed or mixed to the output channels, where additional high/low pass and parametric filtering takes place. In addition to improved bass management for conventional home theater signal paths, the DDRC-88BM allows innovative solutions like multi-subwoofer control and combined DRC/active loudspeaker setups.
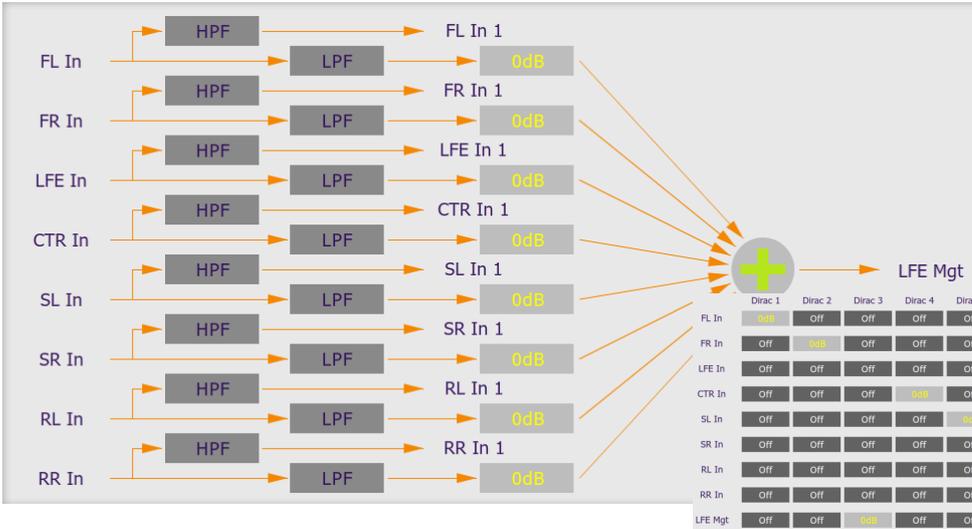
Algorithm and plug-in configuration

Item	Description
Sampling frequency	48 kHz
Algorithm resolution	32-bit floating point
Digital gain	Fader gain control from –80 to 0dB
Output meters	Output channel monitoring from –80dBFS to 0dBFS - High refresh rate
Matrix Mixer	Dual matrix mixer (before & after 8-channel Dirac Live block) controls the routing of audio to/from Dirac Live
Bass Management	Flexible bass management unit: Butterworth up to 4th order (6 to 24dB/octave) Linkwitz-Riley up to 4th order (12 to 24dB/octave) Bessel - 2nd order Individual bypass and Advanced mode for custom biquad input
Dirac Live	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
Low & High Pass Filters on each output	Butterworth up to 8th order (6 to 48dB/octave) Linkwitz-Riley up to 8th order (12 to 48dB/octave) Individual bypass and Advanced mode for custom biquad input
Parametric Equalizers (Peak/Shelf)	10 Parametric EQ bands per output channel, peak or shelving Configurable for frequency, gain, Q Advanced biquad programming / Room EQ Wizard integration
Delay	Up to 1000ms (1sec) per channel in 0.02 ms increments
Polarity	Invert polarity 180-degree per channel
Output mute	Per-channel output mute

SIGNAL FLOW

Features and specifications are subject to change without prior notice

miniDSP

BASS MANAGEMENT ROUTING

Low pass filtering and summing to generate subwoofer signal from LFE channel and 7 speaker channels.

Variable mix level allows correction for LFE gain offset (10 dB) and individual preference.

Separate 9x8 **mix/routing** screen redirects all 8 channels to Dirac Live processing.

	Dirac 1	Dirac 2	Dirac 3	Dirac 4	Dirac 5	Dirac 6	Dirac 7	Dirac 8
FL In	0dB	Off	Off	Off	Off	Off	Off	Off
FR In	Off	0dB	Off	Off	Off	Off	Off	Off
LFE In	Off	Off	Off	Off	Off	Off	Off	Off
CTR In	Off	Off	Off	0dB	Off	Off	Off	Off
SL In	Off	Off	Off	Off	0dB	Off	Off	Off
SR In	Off	Off	Off	Off	Off	0dB	Off	Off
RL In	Off	Off	Off	Off	Off	Off	0dB	Off
RR In	Off	Off	Off	Off	Off	Off	Off	0dB
LFE Mgt	Off	Off	0dB	Off	Off	Off	Off	Off

DIRAC LIVE ROOM CORRECTION

The user-friendly **Dirac Live Calibration Tool** Multichannel for miniDSP guides the user through the steps for room correction.

- 9-point measurement
- User-controlled target response curve
- User-settable correction frequency range

Up to four filter sets stored on board

- Recall from front panel or infrared remote

All the benefits of Dirac Live:

- Improved imaging and soundstage
- Greater clarity of vocals and dialog
- Smoother and more impactful bass

OUTPUT SECTION

Second mix/route screen controls signal flow from Dirac Live to output channels.

- RMS meter & volume control
- **10 Bands** of parametric equalization
- **Low Pass & High Pass filters** on each channel, up to 48dB slope
- **Time Alignment** for up to 1000ms (1s) per channel.
- Per-channel mute and polarity inversion

Mix/route and channel processing allow complex setups, like multiple subwoofer outputs, multiway active crossovers, and so on.

Features and specifications are subject to change without prior notice

www.minidsp.com

miniDSP