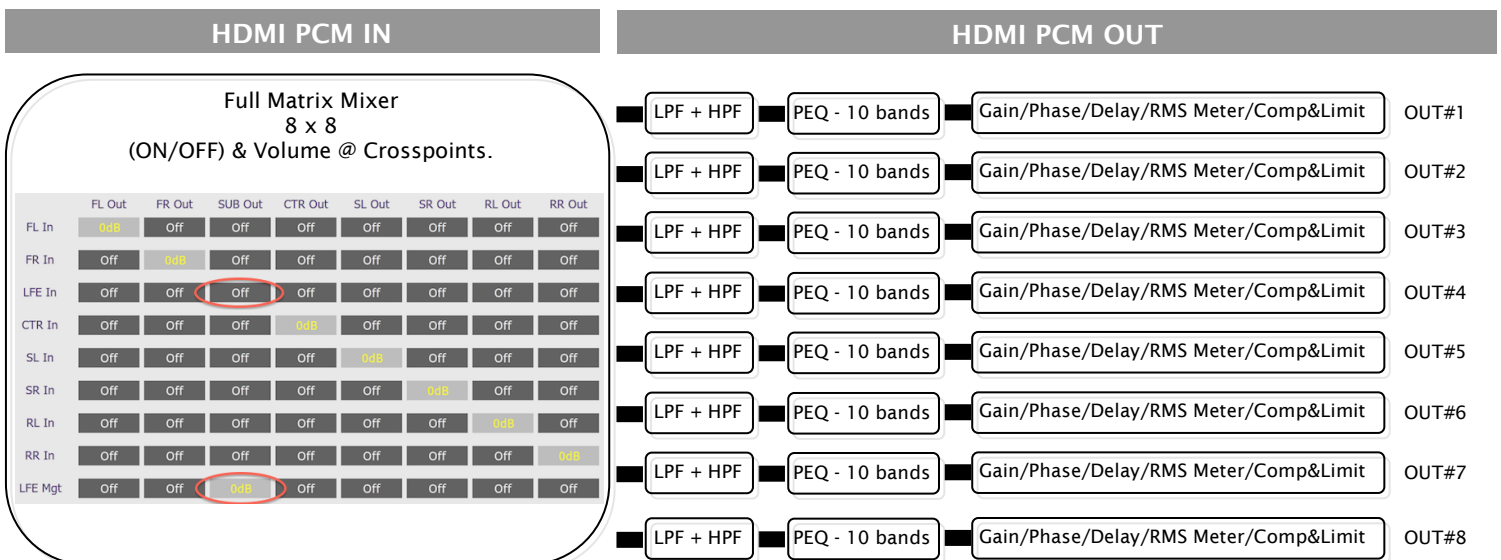


The nanoAVR 8x8 is a plug-in for the nanoAVR HD/HAD product line. This plug-in is well fitted for complete management of up to 7.1 signal or simple subwoofer management of your system. Similar to all miniDSP plug-in, this software application is compatible with Room EQ Wizard to easily measure, tune and control a system.

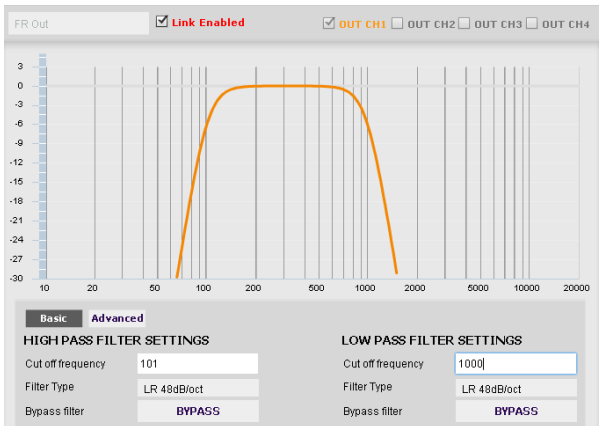
Algorithm and plug-in configuration

Item	Description
Sampling frequency of DSP / Resolution	Input rate up to 192kHz, sample rate converted to the operating DSP sample rate. DSP sample rate 96kHz / 32bit Floating point
Inputs	8 input channels from HDMI PCM feed IMPORTANT NOTE: This plug-in only accept PCM signals since it doesn't have an internal Dolby/DTS decoder. Make sure you perform decoding at the source (e.g. Common for Bluray/HDMI source)
Input mute/select	Click-less input mute per channel and input selection
Digital gain	Fader gain from +12dB to -72dB
Input/ Output meters	Real time monitoring of all channels with RMS dBFS meter.
Full Matrix mixer	Matrix mixer with Crosspoint ON/OFF and Volume control @ each crosspoint (+12~-72dB)
Crossover Filters - Low/High Pass (IIR)	Butterworth up to 8th order (6 to 48dB/oct) / Linkwitz-Riley up to 8th order (12 to 48dB/oct) / Bessel Frequency: 10Hz to 20kHz in 1Hz increments Advanced mode for custom biquad filter input via Text file. Up to 8 biquads for crossover section
Parametric Equalizers (PEQ) (Peak/Low&High shelve / Custom)	10 PEQ bands per output Frequency: 10Hz to 20kHz, 1Hz increments Gain: 0 to 16dB, 0.1dB increments / Q: 0.5 to 50, 0.1 digit increment Type: Peak of Shelf (low/high) & Per-band bypass feature Advanced mode for custom biquad filter input via Text file.
Bass management	Advanced bass management unit with matrix mixer for LFE managed output
Delay (time alignment)	Up to 80ms per channel (27,52m) in 0.02ms increments
Polarity	Invert polarity 180degree per channel
Compressor/Limiter	Per channel Comp/Lim on all outputs. Controls for Threshold/Ratio/Attack/Release & Bypass
Output mute	Individual output mute
Master output gain	Control master output digital gain fader from -80 to 0dB via IR remote
IR Learning remote	Learn control commands from NEC/Philips/Sony/Apple remote IR compliant remote
Presets	Up to 4 x preset memories stores all DSP settings

SYSTEM DIAGRAM



CROSSOVER SECTION



BASIC **ADVANCED**

biquad1,
 b0=0.0010095374702992193,
 b1=0.0020190749405984386,
 b2=0.0010095374702992193,
 a1=1.8819987984452085,
 a2=-0.8860369483264054,

PROCESS
 BYPASS

Wide range of filter choices Up to 8th order (48dB/oct)

Channel linking feature to link up any 2 channels

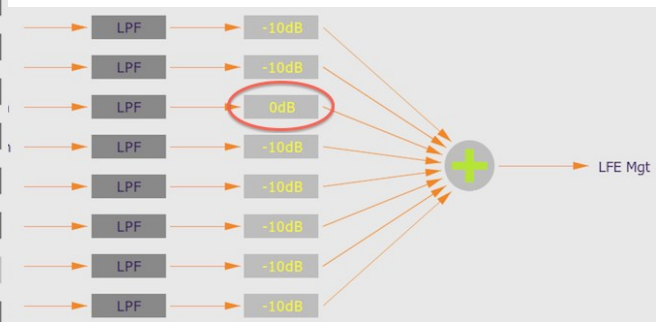
Bypass feature to listen to the effect of filter settings

Advanced Biquad format to enter your own biquad format

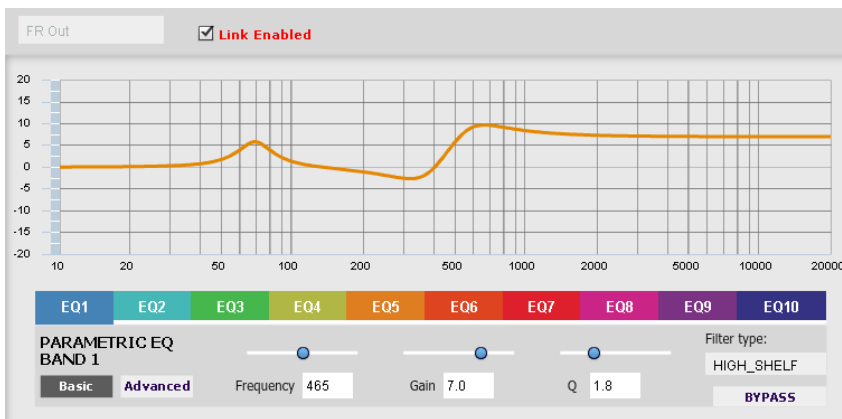
MATRIX MIXER & ADVANCED BASS MANAGEMENT

	FL Out	FR Out	SUB Out	CTR Out	SL Out	SR Out	RL Out	RR Out
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

8 x 8 Matrix mixer for ON/OFF at each crosspoint
Per crosspoint volume to control audio mixing at each crosspoint along with advanced bass management unit.



PARAMETRIC EQUALIZER / COMPRESSOR LIMITER



Up to 10 band parametric equalizations

REW compatible via custom biquad section

BASIC **ADVANCED**

PARAMETRIC EQ BAND 1
 biquad1,
 b0=2.2220115270697782,
 b1=-4.3780241479728454,
 CLEAR
 IMPORT
 PROCESS
 BYPASS

Compressor/Limiter dialog box

