Wavelet	Preamplifier / DAC / Crossover / Room Correction Processor

Inputs

Analog	▪	Two pairs of Stereo balanced inputs on XLR connectors. Input sensitivity without attenuation 0 dBFS[*1] = 1 dBV[*2], input impedance 20 kOhm. Analog attenuation available in three steps of -3 dB, -6 dB and -12 dB for an input sensitivity of respectively 0 dBFS = 4 dBV, 7 dBV or 13 dBV.
	▪	Two pairs of Stereo unbalanced inputs on RCA connectors. Input sensitivity without attenuation 0 dBFS[*1] = 1 dBV[*2], input impedance 100 kOhm. Analog attenuation available in three steps of -3 dB, -6 dB and -12 dB for an input sensitivity of respectively 0 dBFS = 4 dBV, 7 dBV or 13 dBV.
	▪	One XLR Measurement microphone input, 48 Vdc Phantom power.
Digital	▪	Asynchronous USB audio, 24 bit, 44.1 – 96 ks.
	▪	SPDIF, 24 bit, 44.1 – 96 ks.
	▪	TosLink, 24 bit, 44.1 – 96 ks.

Outputs

Analog	▪	8 balanced output channels on 8 XLR connectors. 0 dBFS[*1] = 8 dBV[*2], 33 Ohm output impedance. An analog output level increase of 6 dB is available through internal jumpers offering 0 dBFS = 14 dBV.
	▪	8 unbalanced output channels on 8 RCA connectors. 0 dBFS[*1] = 8 dBV[*2], 33 Ohm output impedance.
Digital	▪	SPDIF, 24 bit, 96 ks.
	▪	TosLink, 24 bit 96 ks.

Ctrl. Interface

Communication	▪	Ethernet, TP-Cable & WLAN.

Processing

DSP	▪	Analog Devices, internal processing sample rate 96 ks, bit depth 56 bits.
Bohmer Correction	▪	The Bohmer Correction is a Loudspeaker In-room Energy-Time alignment that optimizes the loudspeaker room acoustic transfer function in both frequency and predominantly time domain. Working with revolutionary new algorithms it starts with a psychoacoustically based measurement method. Alignment errors are then optimized individually, not resorting to the common crude bulk correction over the entire frequency spectra. The Algorithms use psycho acoustic reasoning for alignment and correction of the loudspeaker room transfer function. The correction improves sound quality in the whole room, provides improved transient response, clarity & soundstaging and gives a relaxed sound without rough edges or any booming.

Physical

Dimensions	▪	Width 445 mm x Depth 301 mm x Height 95 mm.
Weight	▪	6.1 kg / 13.5 lbs.

[*1]dBFS - Decibels Full Scale, referenced to AD converter full scale input or DA converter full scale output. Any input level above 0 dBFS will be clipped by the AD converters. An output level of 0 dBFS is the maximum output voltage available from the DA converters.
[*2]dBV - Decibels Volt, referenced to 1 Vrms. A 0 dBV input signal has a signal level of 1 Vrms.
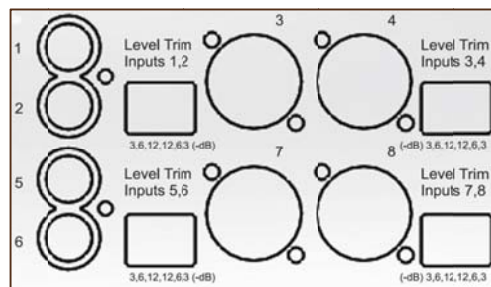
Analog Input Attenuation/Level Trim Switches on back panel