HELIX

DSP PRO

MADE IN GERMANY
DIN EN ISO 9001:2008
ZERTIFIZIERTES UNTERNEHMEN

The signal processor for all those, who are only satisfied with the best! The new HELIX DSP PRO raises the bar to a new level, not only in terms of sound quality. Due to the implementation of the latest generation of ultra-fast Audio DSPs with enormous 64 Bit resolution, this device provides more calculating power than every other signal processor available on the market today. In addition, it is the first of its kind which performs the full signal path with a sampling rate of 96 kHz, resulting in an extended audio bandwidth up to more than 40 kHz.

As if that were not enough - the new HELIX Extension Card Slot, simply called "HEC", makes this device extremely flexible and versatile. It allows, by using optional HEC modules, to extend the functionality of the DSP PRO - for example by a Bluetooth audio streaming module, an additional optical digital input or an optical digital output.
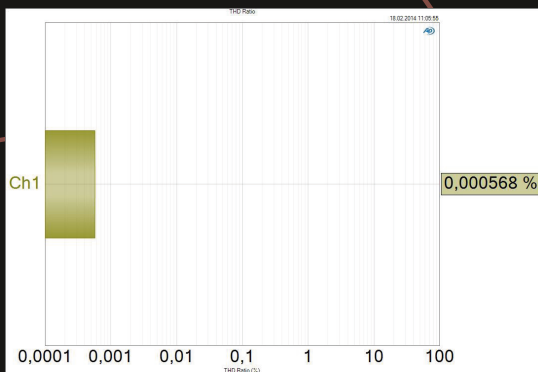
Entirely new, but still familiar is the completely revised DSP PC-Tool software 3.0. As intuitive as before, it adds a bunch of new functions and more precise adjustments of all parameters. The real-time analyzer, which is integrated in the software, now comprises the revolutionary "AutoSet" function that makes the equalizer adjustment as easy as possible.

No doubt - the HELIX DSP PRO will make the dreams come true - even of the most ambitious sound enthusiasts - that´s a safe bet!
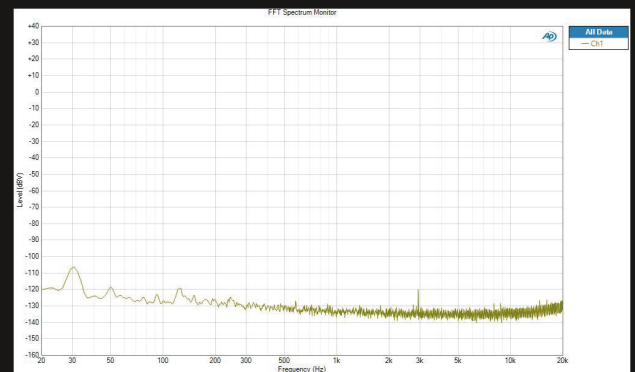
Features:

- Cutting-edge, extremely powerful "fixed point" Audio DSP with 64 bit resolution
- Full audio bandwidth up to more than 40 kHz for unparalleled audio performance
- Paragraphic 30-band EQ per channel with ultra-precise 0,25 dB steps, fine adjustment of the individual bands in 1/24 octave steps and a quality setting between 0,5 and 15
- time-alignment adjustment in narrow 3,5 mm steps
- various filter characteristics with 6 - 42dB slope available
- Completely new "drag & drop" signal routing with separate matrices for line, SPDIF and aux input
- Inputs: 8 x RCA/Cinch (2 – 4 Volts, 2 channels internally changeable to higher sensitivity 250 – 500 mV), 8 x highlevel (5 – 10 Volts or 10 – 20 Volts), 1 x SPDIF (optical/coaxial switchable), remote input, control input for remote control and USB connector
- Outputs: 10 x RCA/Cinch (max. 6 Volts output voltage) and remote output
- HELIX Extension Card slot (HEC) for additional input/output modules

THD ratio

Noise spectrum

Technical data:

Inputs:	8 x RCA / Cinch 8 x Highlevel speaker input 1 x Optical SPDIF (12 – 96 kHz) 1 x Coax SPDIF (12 - 192 kHz) 1 x Remote In	Sampling rate:	96 kHz
Input sensitivity:	RCA / Cinch 2 - 4 Volts Highlevel 5 - 10 Volts or 10 - 20 Volts	Data converters:	A/D: Asahi Kasei D/A: Analog Devices
Outputs:	10 x RCA / Cinch 1 x Remote Out	Signal-to-noise ratio (A-weighted):	116 dB (digital input) 108 dB (analog input)
Output voltage:	6 Volts	Distortion (THD+N):	< 0,0006% (digital input) < 0,001% (analog input)
Frequency response:	10 - 44.000 Hz	Crosstalk:	> 90 dB
DSP resolution:	64 Bit	Power supply:	9.6 - 18 Volts (5 sec. down to 6 Volts)
DSP power:	295 MHz 1.2 billion MAC operations per second	Dimensions (H x W x D):	40 x 177 x 150 mm / 1.58 x 6.97 x 5.91"