

ULTRA-DRIVE PRO DCX2496



Technical Specifications

Version 1.0 February 2003

ENGLISH

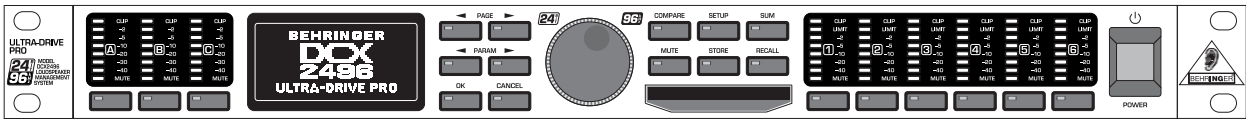
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ULTRA-DRIVE PRO DCX2496

ULTRA-DRIVE PRO

Ultra-High Precision Digital 24-Bit/96 kHz Loudspeaker Management System



- ▲ 3 analog inputs (one suitable as a digital stereo AES/EBU input) and 6 analog outputs for maximum flexibility
- ▲ High-end AKM® 24-Bit/96 kHz A/D and D/A converters for ultimate signal integrity and wide dynamic range (112 dB)
- ▲ Integrated sample rate converter for easy connection of external digital signals with sampling rates from 32 to 96 kHz
- ▲ Precise dynamic EQ's for level-dependent equalization and extremely musical parametric EQ's, selectable for all inputs and outputs
- ▲ Several types of EQ's (LP/BP/HP) for each input and output
- ▲ "Zero"-attack limiters on all output channels for optimal signal protection
- ▲ Four different mono and stereo output operating modes
- ▲ Individual crossover filter types (Butterworth, Bessel and Linkwitz-Riley) with selectable roll-off characteristics from 6 to 48 dB/octave
- ▲ Adjustable delays for all inputs and outputs – allow manual or automatic correction for room temperature, phase and arrival time differences
- ▲ Additional sum signal easily derived from the A/B/C inputs
- ▲ Future-proof ULTRA-DRIVE PRO software enables single or multi remote control via PC through RS-232 and RS-485 interfaces (www.behringer.com)
- ▲ Link option via RS-485 network interface enables cascading of several ULTRA-DRIVE PRO's
- ▲ 60 user-defined internal presets storable via PC software or on a PCMCIA card
- ▲ Open architecture assures easy software updates
- ▲ Ultra low-noise 4580 operational amplifiers for outstanding audio performance
- ▲ Servo-balanced, gold-plated XLR connectors for all inputs and outputs
- ▲ High-quality components and exceptionally rugged construction for long life and durability
- ▲ Internal switch-mode power supply for maximum flexibility (100 - 240 V~), noise-free audio, superior transient response plus lowest possible power consumption
- ▲ Manufactured under ISO9000 certified management system

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SPECIFICATIONS

ANALOG INPUTS (A, B, C)

Type	electronically balanced
Connector	XLR
Max. input level	+22 dBu
Input impedance	approx. 20 k Ω at 1 kHz
Crosstalk	-72 dB @ 0 dBu In

DIGITAL INPUT (A)

Connector	XLR
Format	S/PDIF or AES/EBU
Input level	0.3 to 10 Vpp
Input impedance	approx. 110 Ω
Sampling frequency	32 to 96 kHz
Special feature	Sample Rate Converter

MICROPHONE INNPOT (C)

Type	electronically balanced
Connector	XLR
Max. input level	-23 dBu
Input impedance	approx. 470 Ω at 1 kHz
Phantom supply	+15 V

ANALOG OUTPUTS (1, 2, 3, 4, 5, 6)

Type	electronically balanced
Connector	XLR
Max. output level	+22 dBu
Output impedance	approx. 160 Ω at 1 kHz
Crosstalk	-100 dB @ 10 dBu In

SYSTEM DATA

Sampling frequency	96 kHz
Signal delay	< 1 ms
Frequency response	Analog input to analog output 10 Hz to 35 kHz (-1 dB) typ.
Dynamic range	109 dB
(analog input \Rightarrow analog output)	
Input noise	-90 dBu (@ +22 dBu \Rightarrow 112 dB)
Output noise	-90 dBu (@ +22 dBu \Rightarrow 112 dB)
THD+N Ratio	0,007 % @ 0 dBu In, Gain 1 0,004 % @ 10 dBu In, Gain 1

CONVERTERS

A/D converter	
Resolution	24-Bit Delta-Sigma AKM [®]
Oversampling	64x
Dynamic range	112 dB typ.

D/A converter	
Resolution	24-Bit Delta-Sigma AKM [®]
Oversampling	64x
Dynamic range	112 dB typ.

SERIAL INTERFACE

RS-232	
Type	9-pin sub-D connector
Transmission type	115200 bauds, 8 data bits, 1 stop bit, no parity

RS-485 (2x)	
Type	RJ-45 connector
Transmission type	115200 bauds, 8 data bits, 1 stop bit, no parity

POWER SUPPLY

Mains voltage	
USA/Canada	120 V ~, 60 Hz
U.K./Australia	240 V ~, 50 Hz
Europe	230 V ~, 50 Hz
General export model	100 - 240 V ~, 50 - 60 Hz
Power consumption	approx. 12 W
Fuse	100 to 240 V ~: T 1 A H
Mains connector	Standard IEC receptacle

DIMENSIONS (H x W x D)	1 3/4" (44.5 mm) x 19" (482.6 mm) x 8 1/2" (217 mm)
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WEIGHT	approx. 3 kg
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SHIPPING WEIGHT	approx. 4.2 kg
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BEHRINGER makes every effort to ensure the highest standard of quality. Necessary modifications are carried out without notice. Thus, the specifications and design of the device may differ from the information given in this publication.

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