

# **Technical Specifications**

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www.behringer.com

## ULTRADRIVE PRO DCX2496

# ULTRADRIVE 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<sup>®</sup> 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 ULTRADRIVE 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 ULTRADRIVE 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

### **ULTRADRIVE PRO DCX2496**

#### **SPECIFICATIONS**

#### ANALOG INPUTS (A, B, C) electronically balanced Connector XLR Max. input level Input impedance Crosstalk **DIGITAL INPUT (A)** Connector XLR Format Input level Input impedance Sampling frequency Special feature **MICROPHONE INNPUT (C)** Connector XLR Max. input level -23 dBu Input impedance +15 V Phantom supply ANALOG OUTPUTS (1, 2, 3, 4, 5, 6) Connector XLR Max. output level +22 dBu Output impedance Crosstalk SYSTEM DATA 96 kHz Sampling frequency Signal delay < 1 ms Frequency response 109 dB

Dynamic range (analog input - analog output) Input noise Output noise THD+N Ratio

#### CONVERTERS

Type

Туре

Туре

A/D converter Resolution Oversampling Dynamic range

D/A converter Resolution Oversampling Dynamic range

#### SERIAL INTERFACE

**RS-232** Type Transmission type

RS-485 (2x) Type Transmission type

**POWER SUPPLY** 

Mains voltage USA/Canada Europe/U.K./Australia Japan General export model Power consumption Fuse Mains connector

+22 dBu approx. 20 k $\Omega$  at 1 kHz -72 dB @ 0 dBu In

S/PDIF or AES/EBU 0.3 to 10 Vpp approx. 110  $\Omega$ 32 to 96 kHz Sample Rate Converter

electronically balanced approx. 470  $\Omega$  at 1 kHz

electronically balanced approx. 160  $\Omega$  at 1 kHz -100 dB @ 10 dBu In

Analog input to analog output 10 Hz to 35 kHz (-1 dB) typ. -90 dBu (@ +22 dBu → 112 dB) -90 dBu (@ +22 dBu → 112 dB) 0,007 % @ 0 dBu In, Gain 1 0,004 % @ 10 dBu In, Gain 1

24-Bit Delta-Sigma AKM® 64x

112 dB typ.

24-Bit Delta-Sigma AKM® 64x 112 dB typ.

9-pin sub-D connector 115200 bauds, 8 data bits, 1 stop bit, no parity

**RJ-45** connector 115200 bauds, 8 data bits, 1 stop bit, no parity

120 V~, 60 Hz 230 V~, 50 Hz 100 V~, 50 - 60 Hz 100 - 240 V~, 50 - 60 Hz approx. 12 W 100 to 240 V~: T 1A H Standard IEC receptacle DIMENSIONS (H x W x D)

1 <sup>3</sup>⁄<sub>4</sub>" (44.5 mm) x 19" (482.6 mm) x 8 ½" (217 mm)

approx. 3 kg

SHIPPING WEIGHT

WEIGHT

approx. 4.2 kg

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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