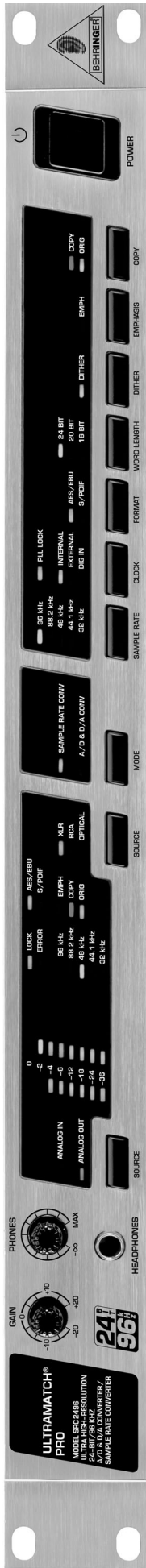


ULTRAMATCH PRO SRC2496



Technical Specifications

Version 1.0 January 2003

ENGLISH

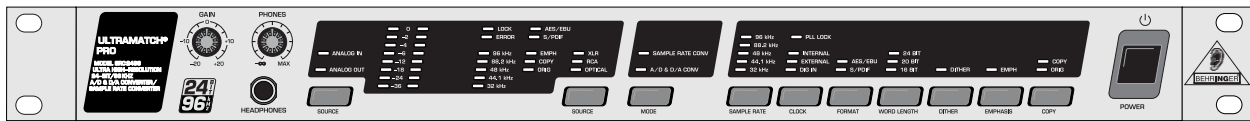
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ULTRAMATCH PRO SRC2496

ULTRAMATCH PRO

Ultra high-resolution 24-bit/96 kHz A/D-D/A, sample rate and format converter



- ▲ High-end 24-bit/96 kHz A/D and D/A converters for ultimate signal purity
- ▲ Converts any sample rate between 31 and 100 kHz into 32, 44.1, 48, 88.2 or 96 kHz sample rates
- ▲ Flexible format conversion between AES/EBU and S/PDIF (coaxial or optical)
- ▲ Ultra high-quality signal output with 16-, 20- or 24-bit resolution
- ▲ Universal sample rate synchronization via wordclock or digital input
- ▲ Allows parallel A/D and D/A conversion at identical sample rate
- ▲ Precise metering for input/output signal as well as powerful headphone monitoring
- ▲ Dithering automatically adapted for word length conversion
- ▲ Allows direct manipulation of emphasis and copy-protection bits
- ▲ High-precision quartz clock generator removes jitter and corrects off-tune, incorrect sample rates
- ▲ Extremely fast tracking supports varispeed applications
- ▲ Self-adjusting anti-aliasing filter with exceptionally steep edge
- ▲ Consumer devices (e.g. DAT recorders) can be synchronized with the studio clock
- ▲ All three outputs (XLR, RCA, optical) simultaneously operational (splitter)
- ▲ Inputs separately selectable (patchbay functionality)
- ▲ All digital inputs/outputs balanced and galvanically isolated
- ▲ All analog inputs/outputs servo-balanced
- ▲ Manufactured under ISO9000 certified management system

* We want to point out that the copyright of third parties must not be infringed—despite the possibility of removing the copy protect bit with the help of the ULTRAMATCH PRO! This device was not developed to produce unauthorized copies!

ULTRAMATCH PRO SRC2496

SPECIFICATIONS

Synchronization

Internal sampling rates	32, 44.1, 48, 88.2, 96 kHz
Synchronization via digital input and wordclock	accepts all sampling rates between 31 and 100 kHz, automatic synchronization by PLL

Digital input 1

Type	XLR, transformer-balanced
Input impedance	110 ohms
Nominal input level	0.2 V to 5 V, peak-to-peak

Digital input 2

Type	RCA, transformer-balanced
Input impedance	75 ohms
Nominal input level	0.2 V to 5 V, peak-to-peak

Digital input 3

Type	Toslink, optical fiber cable
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Synchronization input

Type	BNC
Input impedance	50 kohms
Standard	Wordclock (1 x FS)
Nominal input level	2 V to 6 V peak-to-peak

Digital output 1

Type	XLR, transformer-balanced
Output impedance	110 ohms balanced
Nominal output level	3.5 V peak-to-peak

Digital output 2

Type	RCA, transformer-balanced
Output impedance	75 ohms
Nominal output level	0.5 V, peak-to-peak

Digital output 3

Type	Toslink, optical fibre cable
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Analog inputs

Type	XLR, balanced
Input impedance	20 kohms
Converter	24-bit/96 kHz 128/64 times oversampling delta-sigma AKM A/D converter
Input level	-4 dBu to +22 dBu for 0 dBFS, adjustable
S/N-Ratio	>105 dB

Analog outputs

Type	XLR, balanced
Output impedance	160 ohms
Converter	24 bit/96 kHz 128 times oversampling delta-sigma AKM D/A converter
Output level	+16 dBu @ 0 dBFS
S/N Ratio	>108 dB

Jitter suppression

Jitter permitted at input	>40 ns
Internal jitter at input	<2 ns
Internal jitter with external Synchronization	<20 ns, 10 ns typ.

Channel Status information in output signal

Professional mode	Professional, audio use, stereo, no emphasis or 50/15 μ s, Fs = 32, 44.1, 48, 88.2, 96 kHz
Consumer mode	Consumer, audio use, 2-channel, original material switchable, copy permit switchable, no emphasis or 50/15 μ s, Fs = 32, 44.1, 48 kHz; (88.2, 96 kHz not defined)

Power supply

Mains voltage	U.S.A./Canada 120 V \sim , 60 Hz U.K./Australia 240 V \sim , 50 Hz Europe 230 V \sim , 50 Hz
General export model	100 - 120 V \sim , 200 - 240 V \sim , 50 - 60 Hz
Power consumption	approx. 12 W
Fuse	100 - 120 V \sim : T 200 mA H 200 - 240 V \sim : T 100 mA H
Mains connection	Standard IEC receptacle

Dimensions/weight

Dimensions	approx. 1 3/4" (44.5 mm) x 19" (482.6 mm) x 7 1/2" (190.5 mm)
Weight	approx. 2 kg
Shipping weight	approx. 3.2 kg

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

ULTRAMATCH PRO SRC2496

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