

# ULTRAMATCH PRO SRC2496



## Technical Specifications

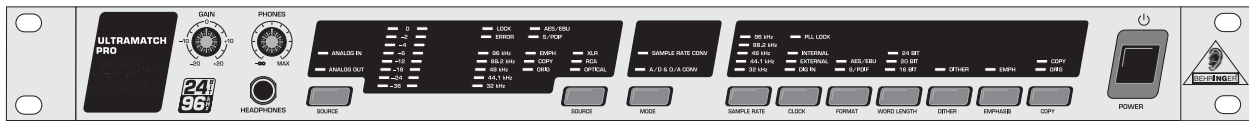
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ENGLISH

# 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 bits and other significant, digitally transmitted information in order to record virtually any audio signal
- ▲ 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
- ▲ Conceived and designed by BEHRINGER Germany. Made in China.

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## 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 $\mu$ 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 $\mu$ s, Fs = 32, 44.1, 48 kHz; (88.2, 96 kHz not defined)

### Power supply

Mains voltage	
U.S.A./Canada	120 V~, 60 Hz
Europe/U.K./Australia	230 V~, 50 Hz
Japan	100 V~, 50 - 60 Hz
General export model	120/230 V~, 50 - 60 Hz
Power consumption	15 W
Fuse	100 - 120 V ~: T 250 mA H 200 - 240 V ~: T 125 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

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