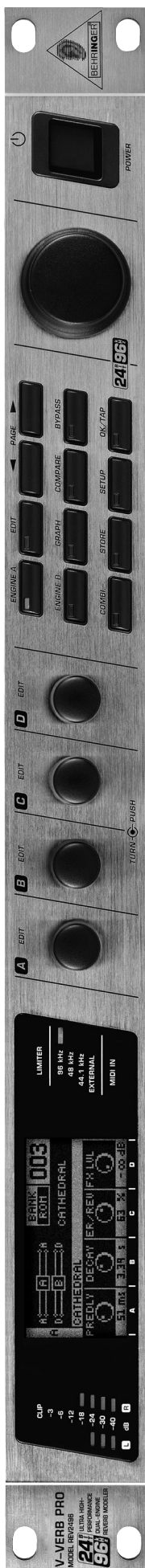


V-VERB PRO

REV2496



Technical Specifications

Version 1.0 November 2003

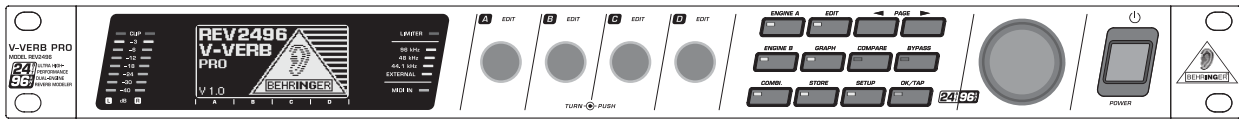
ENGLISH

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V-VERB PRO

Ultra High-Performance 24-Bit/96 kHz Dual-Engine Reverb Modeler



- ▲ Reference-class reverb modeling processor with high-quality 24-bit/96 kHz A/D and D/A converters
- ▲ Full 4-channel operation up to 96 kHz without any limitations, providing two separate effects processors in one unit
- ▲ 8 high-end reverb algorithms, modeled after world-class reverb processors
- ▲ Additional high-quality modulation effects from X-over Delay to Chorus/Flanger plus stereo Compressor
- ▲ Full-featured digital interface with AES/EBU In/Out, optical S/PDIF In/Out, Wordclock In and MIDI function for flexible use with digital equipment
- ▲ Ultra high-resolution SHARC® processor with 32-bit internal signal processing for ultimate sonic resolution
- ▲ 10 different routing types for flexible assignment of analog and digital connectors to both stereo engines
- ▲ Innovative user interface with soft push/turn encoders, big preset wheel, high-resolution graphic LCD display and additional TAP button for delay times
- ▲ Direct access to 4 effect parameters makes editing easy and comfortable
- ▲ Intuitive editing of up to 30 parameters using specially designed graphic mode
- ▲ Separate ROM and user preset banks with 400 presets total
- ▲ Balanced inputs and servo-balanced outputs with gold-plated XLR and ¼" TRS connectors
- ▲ Open architecture allows future software updates via MIDI
- ▲ Internal switch-mode power supply for maximum flexibility (100 - 240 V~), noise-free audio, superior transient response plus lowest possible power consumption for energy saving
- ▲ Ultra-rugged construction ensures long life, even under most demanding conditions
- ▲ Designed in Germany. Manufactured under ISO9000 certified management system

SPECIFICATIONS

ANALOG INPUTS

Type	XLR balanced 1/4" TRS stereo balanced
Impedance	approx. 22 k Ω balanced
Max. input level	+16 dBu
CMRR	typ. 40 dB

ANALOG OUTPUTS

Type	XLR, servo-balanced 1/4" TRS stereo servo-balanced
Impedance	approx. 100 Ω balanced
Max. output level	+16 dBu

SYSTEM SPECIFICATIONS

Frequency range	<10 Hz - 20 kHz @ 44.1 kHz <10 Hz - 22 kHz @ 48 kHz <10 Hz - 46 kHz @ 96 kHz
Signal-to-noise ratio	-90 dBu
Dynamic range	106 dB (analog in \Rightarrow analog out)
THD	0,007% typ. @ +4dBu, 1 kHz, Gain 1
Crosstalk	< -100 dB (analog in \Rightarrow analog out)
Signal delay	< 1 ms (analog in \Rightarrow analog out)

DIGITAL INPUT 1

Type	XLR servo-balanced
Standard	AES/EBU or S/PDIF
input impedance	110 Ω
nominal input level	0.2 - 5 V peak-to-peak

DIGITAL INPUT 2

Type	TOSLINK optical
Standard	AES/EBU or S/PDIF

DIGITAL OUTPUT 1

Type	XLR servo-balanced
Standard	AES/EBU or S/PDIF

DIGITAL OUTPUT 2

Type	TOSLINK optical
Standard	AES/EBU or S/PDIF

SYNC INPUT

Type	BNC
Standard	Wordclock (1 x sample rate)
input impedance	approx. 50 k Ω
Nom. level	2 - 6 V peak-to-peak

MIDI Interface

Type	5-pin DIN jacks In/Out/Thru
Implementation	cf. MIDI implementation chart

DIGITAL PROCESSING

Processor	high-resolution SHARC [®] DSP, 600 MFLOPs, 32-bit internal signal processing
Converter	24 Bit/96 kHz
Sample rate	external, 44.1 kHz, 48 kHz, 96 kHz

DISPLAY

Type	128 x 64 backlit liquid crystal display (green) with adjustable contrast
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MEMORY

Presets	100 ROM + 100 user presets for engines A and B, 100 ROM + 100 user presets for combinations
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POWER SUPPLY

Mains voltage	85 – 250 V~, 50 – 60 Hz
Power consumption	10 W typ.
Fuse	T 1 A H
Mains connector	Standard receptacle

DIMENSIONS/WEIGHT

Dimensions	19" (482.6 mm) x 1 3/4" (44.5 mm) x 8 1/2" (217 mm)
Weight	approx. 4 3/4" lbs. (2.15 kg)

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