BCA2000

B-CONTROL ▶AUDIO

Technical Specifications

Version 1.0   February 2004

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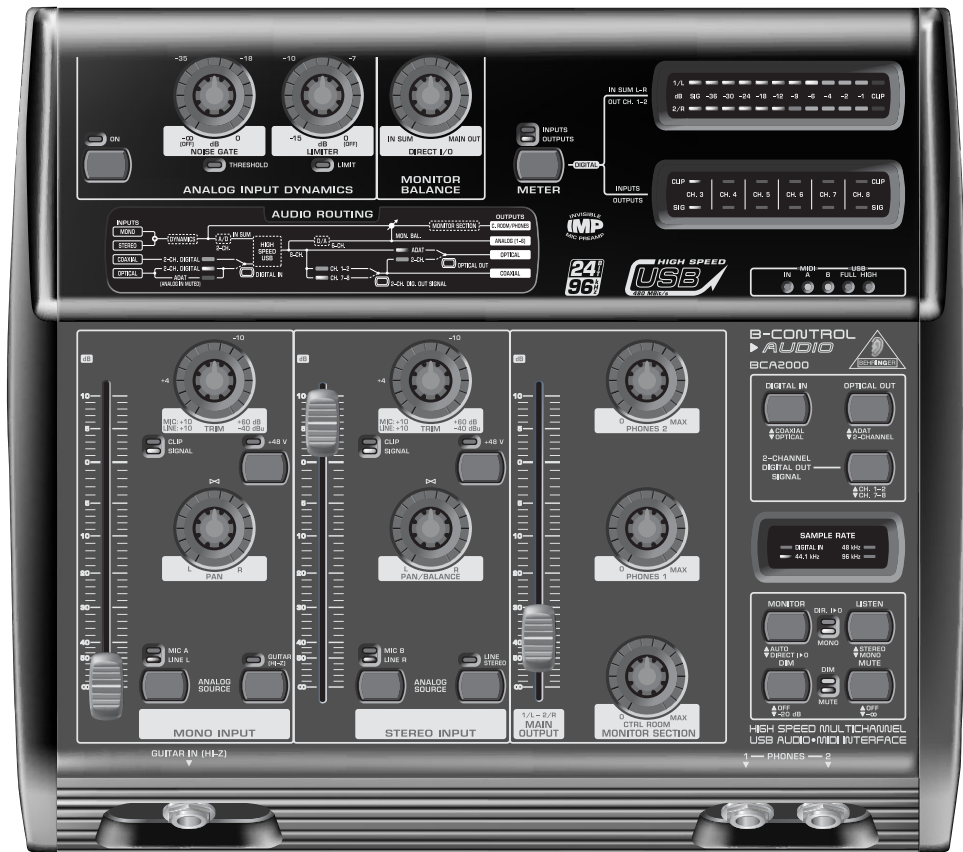
B-CONTROL ▶AUDIO

High-Speed USB 2.0 Multi-Channel Audio/MIDI Control Interface with ADAT® Support, Surround Outputs and Extensive Monitor Control Section

▲ High-performance analog input section with 2 state-of-the-art studio-grade IMP "Invisible" Mic Preamps, +48 V phantom power plus line and Hi-Z guitar inputs

▲ Ultra-flexible input/output configuration supported by a comprehensive LED audio routing indicator plus button (status) LEDs

▲ Adjustable studio-grade analog input dynamic control (noise gate + limiter) prevents distorted input signals or A/D converter overload

▲ Fully equipped USB/MIDI interface with 1 MIDI In/2 MIDI Outs individually selectable for 16 / 32 MIDI channels

▲ Versatile digital input and output formats like ADAT®, ADAT® S/MUX, AES/EBU and S/PDIF, including DOLBY DIGITAL® and DTS® support

▲ Simultaneous use of 3 analog input sources (1 mono + 1 stereo), digital input sources plus full multi-channel playback @ 24-bit/96 kHz

▲ High-resolution 2 x 12 element LED level indicator for stereo In / Out signals plus 2-element LED level indicator for input and output channels 3 - 8

▲ High-speed USB 2.0 interface with 24-bit/96 kHz supports 8 In + 8 Out channels simultaneously (analog and digital) with low latency ASIO 2 & WDM drivers

▲ Fully equipped master and monitor sections with 100-mm faders, individual level controls for 2 speakers, 2 phones and direct monitor function plus separate dim, mute and mono functions

▲ High-quality components and exceptionally rugged construction for long life and durability

▲ Designed in Germany. Manufactured under ISO9000 certified management system

SPECIFICATIONS

AUDIO INPUTS

Microphone inputs (IMP Invisible Mic Preamp)

Type	XLR balanced
Gain range	+10 to +60 dB
Frequency response	10 Hz - 200 kHz (-3 dB)
Impedance	approx. 2.2 kΩ (balanced)
Max. input level	+10 dBu (@ +10 dB Gain)
Signal-to-noise ratio	108 dB (112 dB A-weighted)
Distortion (THD+N)	0.005 % (0.004 % A-weighted)

Line inputs (2)

Type	1/4" TRS connector, balanced
Gain range	-10 to +40 dBu
Impedance	approx. 20 kΩ (balanced)
Max. input level	+26 dBu (@ 0 dB Gain)

Guitar input (1)

Type	1/4" TS connector
Gain range	-10 to +40 dBu
Impedance	approx. 1 MΩ
Max. input level	+20 dBu (@ 0 dB Gain)

AUDIO OUTPUTS

Control Room L/R

Type	1/4" TRS stereo
Impedance	approx. 120 Ω
Signal-to-noise ratio	115 dB
Crosstalk	-80 dB @ 1 kHz
Max. output level	+20 dBu

Main Out

Type	(Main 1/2, Cinch 3-6)
Impedance	approx. 120 Ω
signal-to-noise ratio	100 dB
Crosstalk	< -80 dBu @ 1 kHz
Max. output level	+20 dBu

Headphones outputs (2)

Type	1/4" TRS connector with separate volume controls
Max. output level	+20 dBu

INSERTS (2)

Type	1/4" TRS connector, unbalanced

DYNAMIC SECTION

Noise Gate Threshold	-∞ to 0 dB
Limiter Threshold	-15 to 0 dB

DIGITAL INPUTS

Type	Cinch coaxial
Standard	AES/EBU, S/PDIF
Input impedance	75 Ω
Nom. input signal level	0.2 - 5 V peak-to-peak
Type	TOSLINK optical
Standard	AES/EBU, S/PDIF, ADAT®, S/MUX

DIGITAL OUTPUTS

Type	Cinch coaxial
Standard	AES/EBU, S/PDIF, AC-3/DTS®
Impedance	75 Ω
Output signal level	2.5 V peak-to-peak
Type	TOSLINK optical
Standard	AES/EBU or S/PDIF, AC-3/DTS®, ADAT®, S/MUX

DIGITAL PROCESSING

Converter	24 Bit/96 kHz
Sample rate	44.1 kHz, 48 kHz, 96 kHz
Signal-to-noise ratio	A/D: 100 dB typ.
	D/A: 102 dB

USB INTERFACE

Type	High-Speed 480 MBit/s
	Full-Speed 12 MBit/s

MIDI INTERFACE

Type	5-pin DIN connectors: IN, OUT A, OUT B/THRU

POWER SUPPLY

Voltage	85 - 250 V~, 50 - 60 Hz
Power consumption	max. 10 W
Fuse	**T 1 A H** 250 V
Mains connection	Standard IEC receptacle

DIMENSIONS/WEIGHT

Dimensions (H x W x D)	13" x 4" x 11 4/5" (330 mm x 100 mm x 300 mm)
Weight	approx. 5 lbs (2.25 kg)

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