

UB502

EUROSTACK

Technical Specifications

Version 1.3 January 2004

ENGLISH



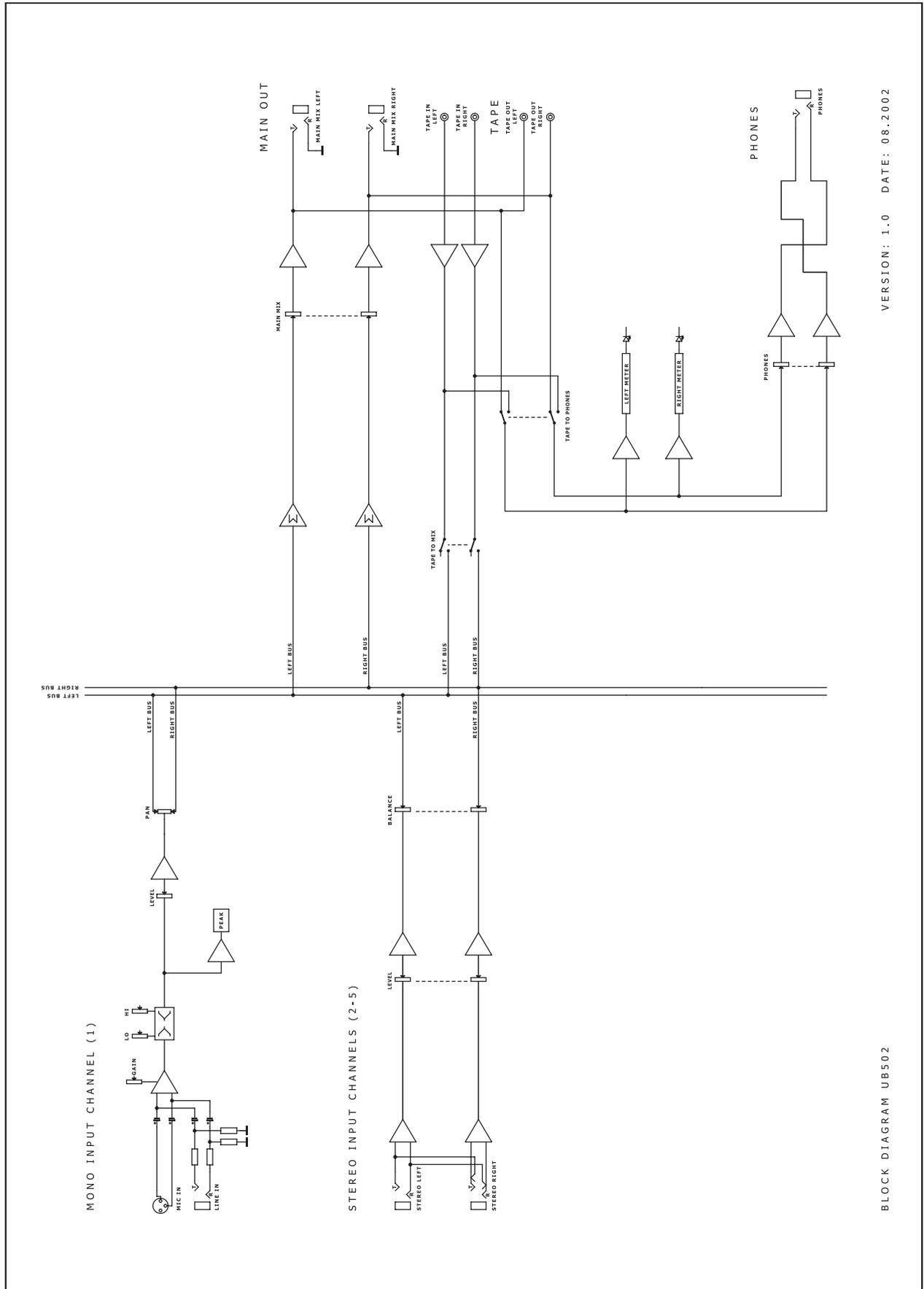
EURORACK

Ultra Low-Noise Design 5-Input 2-Bus Mixer

- ▲ Ultra low-noise ULN design, highest possible headroom, ultra-transparent audio
- ▲ 1 new state-of-the-art, studio-grade IMP “Invisible” Mic Preamp with:
 - 130 dB dynamic range for 24-bit, 192 kHz sampling rate inputs
 - Ultra-wide 60 dB gain range
 - Lowest possible distortion 0.0007% (20 Hz - 20 kHz)
- ▲ Effective, extremely musical 2-band EQ and peak LED on mono channel
- ▲ 5 balanced high-headroom line inputs
- ▲ State-of-the-art 4580 operational amplifiers provide lowest noise and distortion—better than 4560 op amps
- ▲ Main mix outputs plus separate headphones and stereo tape outputs
- ▲ Tape inputs assignable to main mix or phones outputs
- ▲ High-quality sealed rotary controls from ALPS® for long-term reliability
- ▲ External power supply for noise-free audio and superior transient response
- ▲ Extremely rugged steel construction ensures long life even under the most demanding conditions
- ▲ Designed in Germany. Manufactured under ISO9000 certified management system

EURORACK UB502

BLOCK DIAGRAM



VERSION: 1.0 DATE: 08.2002

BLOCK DIAGRAM UB502

EURORACK UB502

SPECIFICATIONS

Mono input

Microphone input (IMP "Invisible" Mic Preamp)

Type	XLR, electronically balanced, discrete input circuit
Mic E.I.N. (20 Hz - 20 kHz)	
@ 0 Ω source resistance	-134 dB / 135.7 dB A-weighted
@ 50 Ω source resistance	-131 dB / 133.3 dB A-weighted
@ 150 Ω source resistance	-129 dB / 130.5 dB A-weighted

Frequency response	<10 Hz - 150 kHz (-1 dB), <10 Hz - 200 kHz (-3 dB)
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Gain range	+10 to +60 dB
Max. input level	+12 dBu @ +10 dB gain
Impedance	approx. 2.6 k Ω balanced
Signal-to-noise ratio	110 dB / 112 dB A-weighted (0 dBu In @ +22 dB gain)

Distortion (THD+N)	0.005% / 0.004% A-weighted
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Line input

Type	1/4" TRS connector electronically balanced
Impedance	approx. 20 k Ω balanced 10 k Ω unbalanced
Gain range	-10 to +40 dB
Max. input level	+22 dBu @ 0 dB Gain

Fade-out attenuation¹ (Crosstalk attenuation)

Main fader closed	90 dB
Channel muted	89.5 dB
Channel fader closed	89 dB

Frequency response

Microphone input to main out	
<10 Hz - 90 kHz	+0 dB / -1 dB
<10 Hz - 160 kHz	+0 dB / -3 dB

Stereo inputs

Type	1/4" TRS connector, electronically balanced
Impedance	approx. 20 k Ω
Max. input level	+22 dBu

EQ mono channels

Low	80 Hz / \pm 15 dB
High	12 kHz / \pm 15 dB

Main outputs

Type	1/4" TRS connector, unbalanced
Impedance	approx. 120 Ω unbal.
Max. output level	+22 dBu

Headphones output

Type	1/4" TRS connector, unbalanced
Max. output level	+19 dBu / 150 Ω (+25 dBm)

Main mix system data²

Noise	
Main mix @ - ∞ , Channel fader - ∞	-106 dB / -109 dB A-weighted
Main mix @ 0 dB, Channel fader - ∞	-95 dB / -98 dB A-weighted
Main Mix @ 0 dB, Channel fader @ 0 dB	-84 dB / -87 dB A-weighted

Power supply

Power consumption	13 W
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Mains voltage

USA/Canada	115 V ~, 60 Hz, MXUL5 adapter
U.K./Australia	240 V ~, 50 Hz, MXUK5 adapter
Europe	230 V ~, 50 Hz, MXEU5 adapter
Japan	100 V ~, 60 Hz, MXJP5 adapter

Dimensions

Dimensions (H x W x D)	1 5/6" / 1 1/2" (47 mm / 37 mm) x 5 1/4" (134 mm) x 7" (177 mm)
Weight (net)	approx. 0.55 kg (1.21 lbs)

Measuring conditions:

- 1 kHz rel. to 0 dBu; 20 Hz - 20 kHz; line input; main output; unity gain.
- 20 Hz - 20kHz; measured at main output. Channels 1 - 4 unity gain; EQ flat; all channels on main mix; channels 1/3 as far left as possible, channels 2/4 as far right as possible. Reference = +6 dBu.

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