

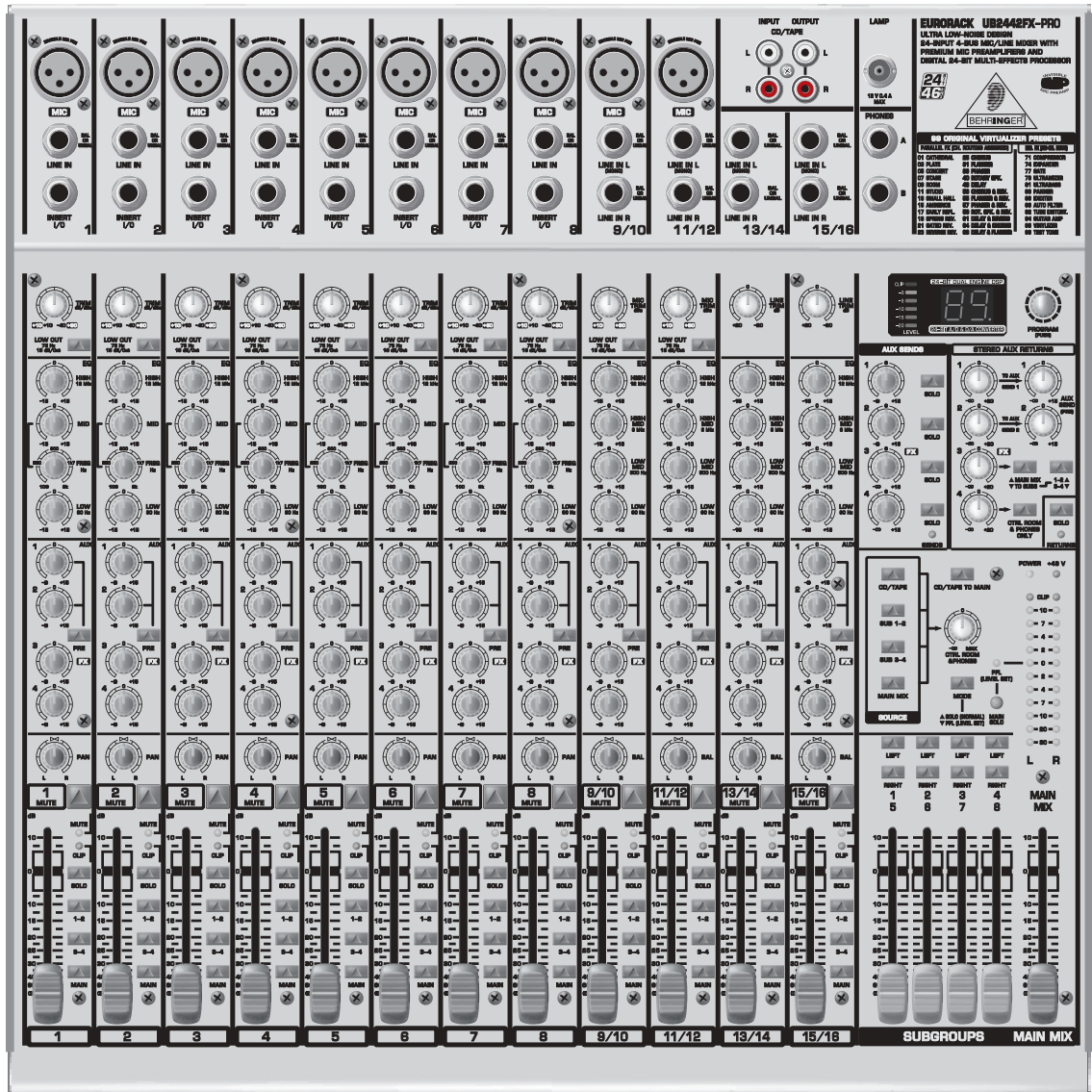
UB2442FX-PRO

EUROTRACK

Technical Specifications

Version 1.3 July 2004

ENGLISH



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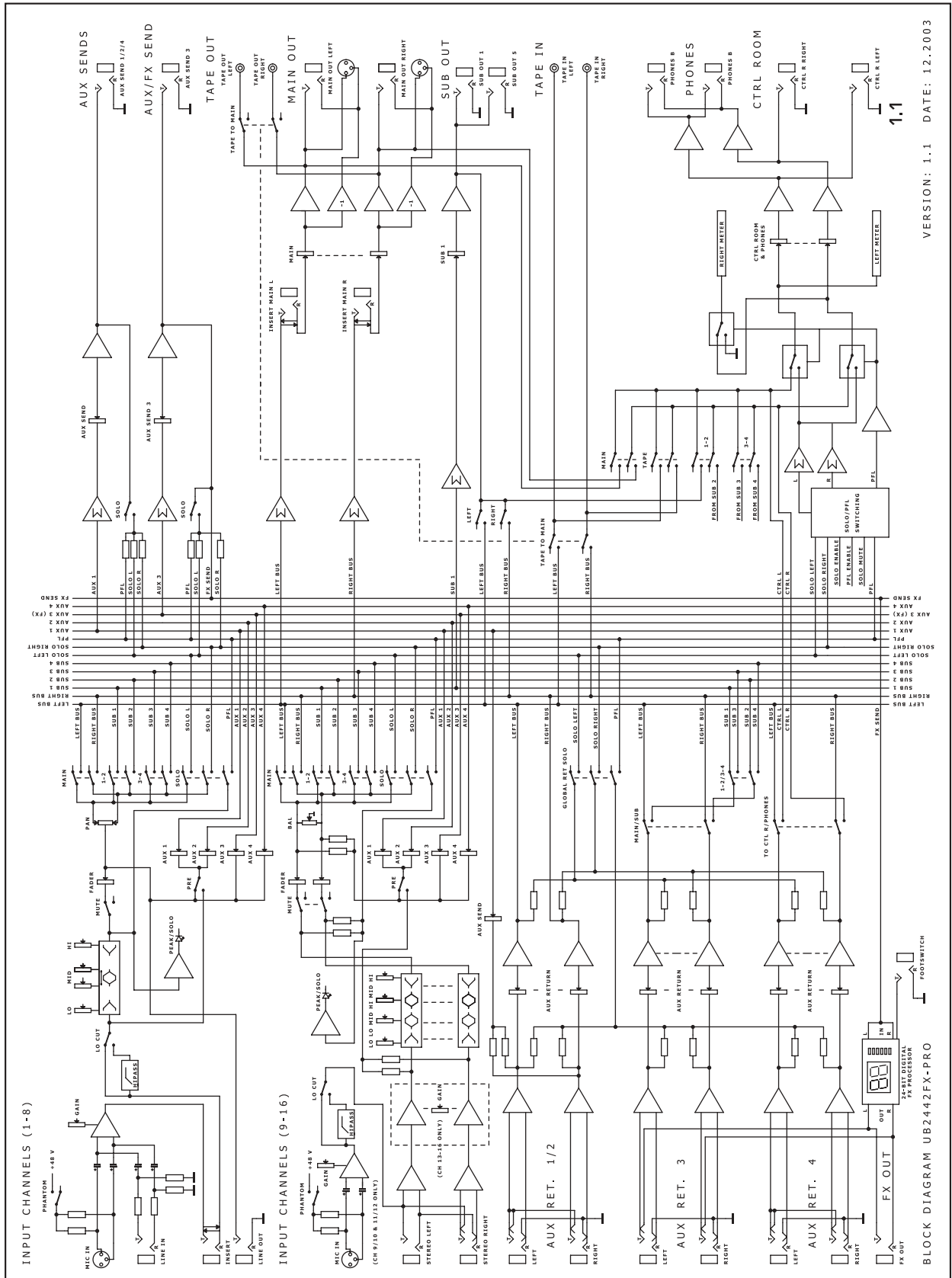
EUORACK

Ultra low-noise design 24-input 4-bus mic/line mixer with premium mic preamplifiers and 24-bit multi-FX processor

- ▲ Ultra low-noise ULN design, highest possible headroom, ultra-transparent audio
- ▲ 10 new state-of-the-art, studio-grade IMP “Invisible” Mic Preamps 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)
- ▲ Integrated 24-bit digital stereo FX processor with 99 great-sounding VIRTUALIZER presets including reverb, delay, chorus, compressor, tube distortion, vinylizer and more plus 1 kHz test tone generator
- ▲ Effective, extremely musical 3-band EQ with semi-parametric mid band plus switchable low-cut filter on all mono channels
- ▲ Channel inserts and direct outputs on each mono channel plus main mix inserts for flexible connection of outboard equipment
- ▲ 16 balanced high-headroom line inputs with dedicated gain controls on stereo channels 13 - 16
- ▲ State-of-the-art 4580 operational amplifiers provide lowest noise and distortion—better than 4560 op amps
- ▲ 2 headphones outputs
- ▲ 4 aux sends per channel: 2 pre/post fader switchable for monitoring/FX applications, 2 post fader (for internal FX or as external send)
- ▲ Peak LEDs, mute, main mix and subgroup routing switches, solo and PFL functions on all channels
- ▲ 4 subgroups with separate outputs for added routing flexibility
- ▲ 4 multi-functional stereo aux returns with flexible routing
- ▲ Balanced main mix outputs with TRS and gold-plated XLR connectors, separate control room, headphones and stereo tape outputs
- ▲ Control room/phones outputs with multi-input source matrix
- ▲ Tape inputs assignable to main mix or control room/phones outputs
- ▲ Switchable +48 V phantom power for condenser microphones
- ▲ Long-wearing 60 mm logarithmic-taper ALPS® faders and sealed rotary controls
- ▲ BNC connector for standard gooseneck lamps
- ▲ 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
- ▲ Extremely rugged steel construction ensures long life even under the most demanding conditions
- ▲ Rack mount brackets included
- ▲ Conceived and designed by BEHRINGER Germany. Made in China

EURORACK UB2442FX-PRO

BLOCK DIAGRAM



VERSION: 1.1 DATE: 12.2003

BLOCK DIAGRAM UB2442FX-PRO

EUROSTACK UB2442FX-PRO

SPECIFICATIONS

Microphone inputs (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	30 dBu

Fade-out attenuation¹ (Crosstalk attenuation)

Main fader closed	90 dB
Channel muted	89 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 / ± 15 dB
Mid	100 Hz - 8 kHz / ± 15 dB
High	12 kHz / ± 15 dB

EQ stereo channels

Low	80 Hz / ± 15 dB
Low Mid	500 Hz / ± 15 dB
High Mid	3 kHz / ± 15 dB
High	12 kHz / ± 15 dB

Aux sends

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

Stereo aux returns

Type	1/4" TRS connector, electronically balanced
Impedance	approx. 20 k Ω bal. / 10 k Ω unbal.
Max. input level	+22 dBu

Main outputs

Type	XLR, electronically balanced and 1/4" TRS balanced
Impedance	approx. 240 Ω balanced / 120 Ω unbalanced
Max. output level	+28 dBu

Control room outputs

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

Headphones outputs

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

DSP

Converter	24-bit Sigma-Delta, 64/128-times oversampling
Sampling rate	46,875 kHz

Main mix system data²

Noise	
Main mix @ $-\infty$, Channel fader @ $-\infty$	-100 dB
Main mix @ 0 dB, Channel fader @ $-\infty$	-87 dB
Main mix @ 0 dB, Channel fader @ 0 dB	-80 dB

Power supply

Power consumption	47 W
Fuse	100 - 240 V~: T 1.6 A H 250 V
Mains connection	Standard IEC receptacle

Physical/weight

Dimensions (H x W x D)	approx. 5 3/8" x 16 1/2" x 17 1/4" (136 mm x 418 mm x 438 mm)
Weight (net)	approx. 5.9 kg

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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EURORACK UB2442FX-PRO

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