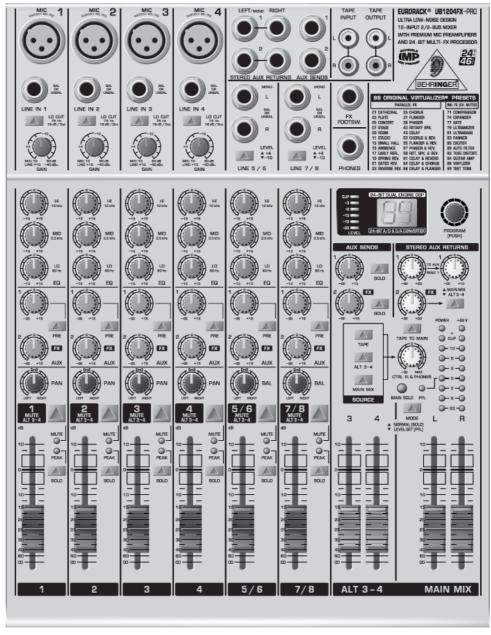
Technical Specifications

Version 1.1 September 2002

ENGLISH



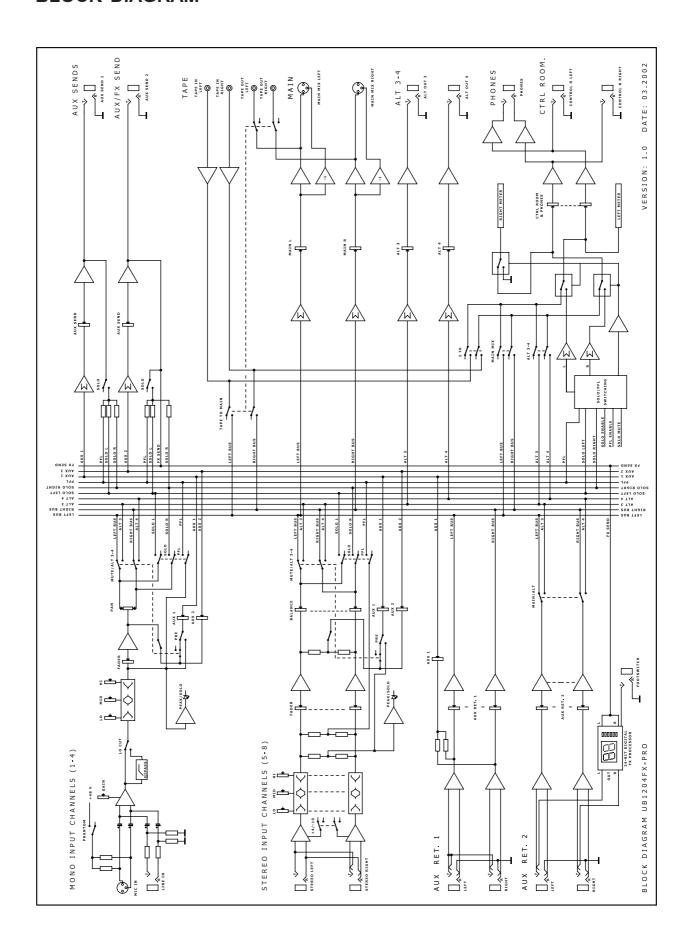


EURORACK

Ultra low-noise design 12-input 2/2-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
- ▲ 4 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 plus switchable low-cut filter on all mono channels
- ▲ 8 balanced high-headroom line inputs with +4/-10 level selection on stereo channels
- ▲ State-of-the-art 4580 operational amplifiers provide lowest noise and distortion—better than 4560 op amps
- ▲ 2 aux sends per channel: 1 pre fader for monitoring applications, 1 post fader for external FX devices
- ▲ Peak LEDs and mute/alt 3-4 function on all channels
- ▲ 2 subgroups with separate outputs for added routing flexibility
- ▲ 2 multi-functional stereo aux returns with flexible routing
- ▲ Balanced main mix outputs with gold-plated XLR connectors plus 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
- ▲ 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
- ▲ Manufactured under ISO9000 certified management system

BLOCK DIAGRAM



SPECIFICATIONS

Mono inputs

Microphone inputs (IMP "Invisible" Mic Preamp)

Type XLR, electronically balanced,

discrete input circuit

Mic E.I.N. (20 Hz - 20 kHz)

Frequency response <10 Hz - 150 kHz (-1 dB),

<10 Hz - 200 kHz (-3 dB)

Gain range +10 to +60 dB

 $\begin{array}{lll} \text{Max. input level} & +12 \text{ dBu @ } +10 \text{ dB gain} \\ \text{Impedance} & \text{approx. } 2.6 \text{ k}\Omega \text{ balanced} \\ \text{Signal-to-noise ratio} & 110 \text{ dB / } 112 \text{ dB A-weighted} \\ & & (0 \text{ dBu In @ } +22 \text{ dB gain}) \\ \end{array}$

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

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 closed90 dBChannel muted89.5 dBChannel fader closed89 dB

Frequency response
Microphone input to main out

<10 Hz - 90 kHz +0 dB / -1 dB

<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

 $\begin{array}{ll} \text{Impedance} & \text{approx. 20 k} \Omega \\ \text{Max. input level} & \text{+22 dBu} \end{array}$

EQ mono channels

EQ stereo channels

Aux sends

Type 1/4" TS connector, unbalanced

 $\begin{array}{ll} \text{Impedance} & \text{approx. 120 } \Omega \\ \text{Max. output level} & \text{+22 dBu} \end{array}$

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 Impedance approx. 240 Ω bal. / 120 Ω unbal.

Max. output level +28 dBu

Control room outputs

Type 1/4" TS connector, unbal.

 $\begin{array}{ll} \text{Impedance} & \text{approx. 120 } \Omega \\ \text{Max. output level} & \text{+22 dBu} \end{array}$

Headphones output

Type 1/4" TRS connector, unbalanced

Max. output level +19 dBu / 150 Ω (+25 dBm)

DSP 24-bit Texas Instruments ™

Converter 24-bit Sigma-Delta,

64/128-times oversampling

Sampling rate 46.875 kHz

Main mix system data²

Noise

Main mix @ -oo, Channel fader -oo -105 dB / -108 dB A-weighted

Main mix @ 0 dB,

Channel fader -oo -95 dB / -97 dB A-weighted

Main Mix @ 0 dB,

Channel fader @ 0 dB -82,5 dB / -85 dB A-weighted

Power supply

Power consumption 40 W

Fuse $100 - 240 \text{ V} \sim: \text{T} \ \text{1.6 A H}$ Mains connection Standard IEC receptacle

Physical/weight

Dimensions (H x W x D) approx. 97 mm (3 7/8") x 247 mm

(9 11/16") x 334 mm (13 5/32")

Weight (net) approx. 2.60 kg (5 3/4 lbs)

Measuring conditions:

1: 1 kHz rel. to 0 dBu; 20 Hz - 20 kHz; line input; main output; unity gain

2: 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.

BEHRINGER is constantly striving to manintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.