



## Technical Specifications



# EURORACK UB1204FX-PRO

Ultra-Low Noise Design 12-Input 2/2-Bus Mixer with Premium Mic Preamplifiers and Multi-FX Processor

# EN EURORACK UB1204FX-PRO

## Ultra-Low Noise Design 12-Input 2/2-Bus Mixer with Premium Mic Preamplifiers and Multi-FX Processor

- Ultra-low noise design, highest possible headroom, ultra-transparent audio
- 4 state-of-the-art, studio-grade IMP "Invisible" Mic Preamps with 130 dB dynamic range for 24-bit, 192 kHz sampling rate inputs
- Integrated digital stereo FX processor with 100 awesome presets including reverb, chorus, flanger, delay, pitch shifter and various multi-effects
- Studio-grade stereo FX processor with 100 awesome presets including reverb, chorus, flanger, delay, pitch shifter and various multi-effects
- 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
- 2 aux sends per channel: one pre/post fader switchable for monitoring/FX applications and one post fader (for internal FX or as external send)
- Clip LEDs, mute/alt 3-4, solo and PFL functions 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, headphone and 2-track outputs
- Control room/headphone outputs with multi-input source matrix
- 2-track inputs assignable to main mix or control room/headphone outputs
- Switchable +48 V phantom power for condenser microphones
- Rack mount brackets included
- 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
- High-quality components and exceptionally rugged construction ensure long life
- Conceived and designed by BEHRINGER Germany

## Specifications

### Mono Inputs

#### Microphone Inputs (IMP "Invisible" Mic Preamp)

Type	XLR, electronically balanced, discrete input circuit
<b>Mic E.I.N. (20 Hz - 20 kHz)</b>	
@ 0 $\Omega$ source resistance	-134 dB / 135.7 dB A-weighted
@ 50 $\Omega$ source resistance	-131 dB / 133.3 dB A-weighted
@ 150 $\Omega$ source resistance	-129 dB / 130.5 dB A-weighted
Frequency response	<10 Hz - 150 kHz (-1 dB), <10 Hz - 200 kHz (-3 dB)
Gain range	+10 to +60 dB
Max. input level	+12 dBu @ +10 dB gain
Impedance	approx. 2.6 k $\Omega$ 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

### Line Input

Type	¼" TRS connector electronically balanced
Impedance	approx. 20 k $\Omega$ balanced approx. 10 k $\Omega$ unbalanced
Gain range	-10 to +40 dB
Max. input level	30 dBu

### Fade-Out Attenuation<sup>1</sup> (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

**EQ Mono Channels**

Low	80 Hz / $\pm 15$ dB
Mid	2.5 kHz / $\pm 15$ dB
High	12 kHz / $\pm 15$ dB

**EQ Stereo Channels**

Low	80 Hz / $\pm 15$ dB
Mid	2.5 kHz / $\pm 15$ dB
High	12 kHz / $\pm 15$ dB

**Aux Sends**

Type	¼" TS connector, unbalanced
Impedance	approx. 120 $\Omega$
Max. output level	+22 dBu

**Stereo Aux Returns**

Type	¼" TRS connector, electronically balanced
Impedance	approx. 20 k $\Omega$ bal. / 10 k $\Omega$ unbal.
Max. input level	+22 dBu

**Main Outputs**

Type	XLR, electronically balanced
Impedance	approx. 240 $\Omega$ bal. / 120 $\Omega$ unbal.
Max. output level	+28 dBu

**Control Room Outputs**

Type	¼" TS connector, unbal.
Impedance	approx. 120 $\Omega$
Max. output level	+22 dBu

**Headphones Output**

Type	¼" TRS connector, unbalanced
Max. output level	+19 dBu / 150 $\Omega$ (+25 dBm)
DSP	24-bit Texas Instruments
Converter	24-bit Sigma-Delta, 64/128-times oversampling
Sampling rate	40 kHz

**Main Mix System Data<sup>2</sup>****Noise**

Main mix @ $-\infty$ , Channel fader @ $-\infty$	-105 dB / -108 dB A-weighted
Main mix @ 0 dB, Channel fader @ $-\infty$	-95 dB / -97 dB A-weighted
Main mix @ 0 dB, Channel fader @ 0 dB	-82.5 dB / -85 dB A-weighted

**Power Supply**

Mains voltage	100 to 240 V~, 50/60 Hz
Power consumption	40 W
Fuse	100 - 240 V ~: T 1.6 A H
Mains connection	Standard IEC receptacle

**Physical****UB1204FX-PRO**

Dimensions (H x W x D)	approx. 3 7/8 x 9 1/16 x 13 5/32" approx. 97 x 247 x 334 mm
Weight (Net)	approx. 8.6 lbs / 3.9 kg

## Measuring conditions:

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