



Technical Specifications



EURORACK UB1222FX-PRO

Ultra-Low Noise Design 16-Input 2/2-Bus Mic/Line Mixer
with Premium Mic Preamplifiers and Multi-FX Processor

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Ultra-Low Noise Design 16-Input 2/2-Bus Mic/Line 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
- Revolutionary FBQ feedback detection system instantly reveals critical frequencies
- Studio-grade stereo FX processor with 100 awesome presets including reverb, chorus, flanger, delay, pitch shifter and various multi-effects
- Voice canceller function on dedicated 2-track return channel for easy-to-use sing-along applications
- Breathtaking XPQ 3D stereo surround effect for more vitality and enhanced stereo image
- 7-band stereo graphic EQ allows precise frequency correction of monitor or main mixes
- 4 fully equipped stereo input channels featuring 2 additional mic inputs on channels 5/6 and 7/8, 3-band EQ and trim control
- Inserts on each mono channel for flexible connection of outboard equipment
- 12 high-headroom line inputs; standby switch mutes all mic channels during breaks while background music is provided via 2-track or line inputs
- 2 aux sends per channel: one pre fader for monitoring and one post fader (for internal FX and/or as external send)
- Switchable +48 V phantom power for condenser microphones
- Balanced main mix outputs with gold-plated XLR connectors, headphone/control room and 2-track outputs
- Clip-indication and set gain-level LEDs plus mute switches for each channel allow fast and accurate level setting; 2 multi-functional stereo aux returns
- 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 circuitry
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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 / 133.5 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)
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	¼" TRS connector, electronically balanced
Impedance	approx. 20 k Ω balanced approx. 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	98 dB
Channel muted	85 dB
Channel fader muted	85 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**Channels 5/6, 7/8****Microphone Input**

Type	XLR microphone connector, electronically balanced
Impedance	approx. 2.6 k Ω balanced
Gain range	0 dB to +40 dB
Max. input level	+2 dBu

Stereo Inputs

Type	2 x 1/4" TRS connector, unbalanced
Impedance	approx. 40 k Ω @ 0 dB Gain
Gain range	-20 dB to +20 dB
Max. input level	+22 dBu @ 0 dB Gain

Channels 9/10, 11/12

Type	2 x 1/4" TRS connector, unbalanced
Impedance	approx. 40 k Ω @ 0 dB Gain
Gain range	-20 dB to +20 dB
Max. input level	+22 dBu @ 0 dB Gain

2-Track In

Type	RCA connectors
Impedance	approx. 10 k Ω
Max. input level	+22 dBu

EQ Mono Channels

Low	80 Hz / \pm 15 dB
Mid	2.5 kHz / \pm 15 dB
High	12 kHz / \pm 15 dB
Low cut	80 Hz, 18 dB/oct.

EQ Stereo Channels

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

MON/FX Send

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

Aux Returns

Type	1/4" TRS connector, unbalanced
Impedance	approx. 10 k Ω
Max. input level	+22 dBu

Main Outputs

Type	XLR, electronically balanced
Impedance	approx. 240 Ω balanced approx. 120 Ω unbalanced
Max. output level	+28 dBu

Headphone Output

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

2-Track Out

Type	RCA connectors
Impedance	approx. 1 k Ω
Max. output level	+22 dBu

DSP

	Texas Instruments
Converter	24-bit Sigma-Delta, 64/128-times oversampling
Sampling rate	40 kHz

Main Mix System Data²**Noise**

Main mix @ $-\infty$, Channel fader $-\infty$	-99 dB / -101 dB A-weighted
Main mix @ 0 dB, Channel fader $-\infty$	-84 dB / -87 dB A-weighted
Main mix @ 0 dB, Channel fader @ 0 dB	-80 dB / -82 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

Dimensions (H x W x D)	approx. 3 7/8 x 13 18/32 x 13 5/32" approx. 97 x 345 x 334 mm
Weight (net)	approx. 9.88 lbs / 4.49 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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