Technical Specifications

EURORACK UB2442FX-PRO

Ultra-Low Noise Design 24-Input 4-Bus Mic/Line Mixer with
Premium Mic Preamplifiers and Multi-FX Processor

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EN

UB2442FX-PRO

Ultra-Low Noise Design 24-Input 4-Bus Mic/Line Mixer with Premium Mic Preamplifiers and Multi-FX Processor

- Ultra-low noise design, highest possible headroom, ultra-transparent audio
- 10 state-of-the-art, studio-grade IMP "Invisible" Mic Preamps with 130 dB dynamic range for 24-bit, 192 kHz sampling rate inputs
- 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 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
- 2 headphone 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)
- Clip LEDs, mute, main mix and subgroup routing switches plus 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, 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 component components and exceptionally rugged construction ensure long life
- Conceived and designed by BEHRINGER Germany

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)
Gain range	+10 to +60 dB
Max. input level	+12 dBu @ +10 dB Gain
Impedance	approx. 2.6 kΩ 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 kΩ balanced 10 kΩ unbalanced
Gain range	-10 to +40 dB
Max. input level	+22 dBu @ 0dB Gain

Fade-out Attenuation[1] (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	¼" TRS connector, electronically balanced
Impedance	approx. 20 kΩ
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	¼" TS connector, unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

Stereo Aux Returns

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

Main Outputs

Type	¼" TS connector unbalanced
Impedance	approx. 240 Ω balanced / 120 Ω unbalanced
Max. output level	+22 dBu

Control Room Outputs

Type	¼" TS connector unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

Headphones Outputs

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

Main Mix System Data[2]

Noise

Main mix @ -∞, Channel fader @ -∞	-100 dB
Main mix @ -0 dB, Channel fader @ -∞	-87 dB
Main mix @ 0 dB, Channel fader @ 0 dB	-80 dB

Power Supply

Mains voltage	100 to 240 V~, 50/60 Hz
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 x 17.3 x 16.5" approx. 135 x 440 x 420 mm
Weight (Net)	approx. 14.5 lbs / 6.6 kg

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.