UB1222FX-PR0

Technical Specifications

Version 1.0 October 2003





EURORACK UB1222FX-PRO

EURORACK

Ultra Low-Noise Design 16-Input Mic/Line Mixer with Premium Mic Preamplifiers, FBQ Feedback Detection System 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)
- ▲ Revolutionary, patent-pending FBQ Feedback Detection System instantly reveals critical frequencies
- ▲ 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
- ▲ Voice Canceller function on dedicated CD/tape 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 input trim control
- ▲ Effective, extremely musical 3-band EQ plus switchable low cut filter on all mono channels
- ▲ 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 CD/tape or line inputs
- ▲ 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, 1 post fader (for internal FX and/or as external send)
- ▲ Clip indication and gain level set LEDs plus mute switches for each channel allow fast and accurate level setting
- ▲ 2 multi-functional stereo aux returns
- Balanced main mix outputs with gold-plated XLR connectors, headphone/control room output and stereo tape 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 most demanding conditions
- ▲ Rack mount brackets included
- Designed in Germany. Manufactured under ISO9001 certified management system.

EURORACK UB1222FX-PRO

5. SPECIFICATIONS

Mono inputs

Microphone inputs (IMP "Invisible" Mic Preamp)

Type XLR, electronically balanced,

discrete input circuitry

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

(0 dBu In @ +22 dB Gain)

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 +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

Impedance

Stereo inputs

Type XLR microphone connector,

electronically balanced approx. 2.6 k Ω balanced

Gain range 0 dB to +40 dB Max. input level +2 dBu

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

CD/tape in

 $\begin{array}{lll} \mbox{Type} & \mbox{RCA connectors} \\ \mbox{Impedance} & \mbox{approx. 10 k} \mbox{M} \\ \mbox{Max. input level} & \mbox{+22 dBu} \\ \end{array}$

EQ mono channels

Low cut 80 Hz, 18 dB/oct.

EQ stereo channels

 Low
 80 Hz / ±15 dB

 Mid
 2.5 kHz / ±15 dB

 High
 12 kHz / ±15 dB

MON/FX send

Type 1/4" TS connector, unbalanced

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

Aux returns

Type 1/4" TRS connector, unbalanced

 $\begin{array}{ll} \text{Impedance} & \text{approx. 10 k}\Omega \\ \text{Max. input level} & \text{+22 dBu} \end{array}$

Main outputs

Type XLR, electronically balanced Impedance approx. 240 Ω balanced / 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)

CD/tape out

 $\begin{array}{lll} \mbox{Type} & \mbox{RCA connectors} \\ \mbox{Impedance} & \mbox{approx. 1 k} \Omega \\ \mbox{Max. output level} & \mbox{+22 dBu} \end{array}$

DSP 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 -∞ -99 dB / -101 dB A-weighted

Main mix @ 0 dB, Channel fader -co

Channel fader -∞ -84 dB / -87 dB A-weighted

Main mix @ 0 dB,

Power supply

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. 97 mm (3 7/8") x

345 mm (13 18/32") x 334 mm

(13 5/32")

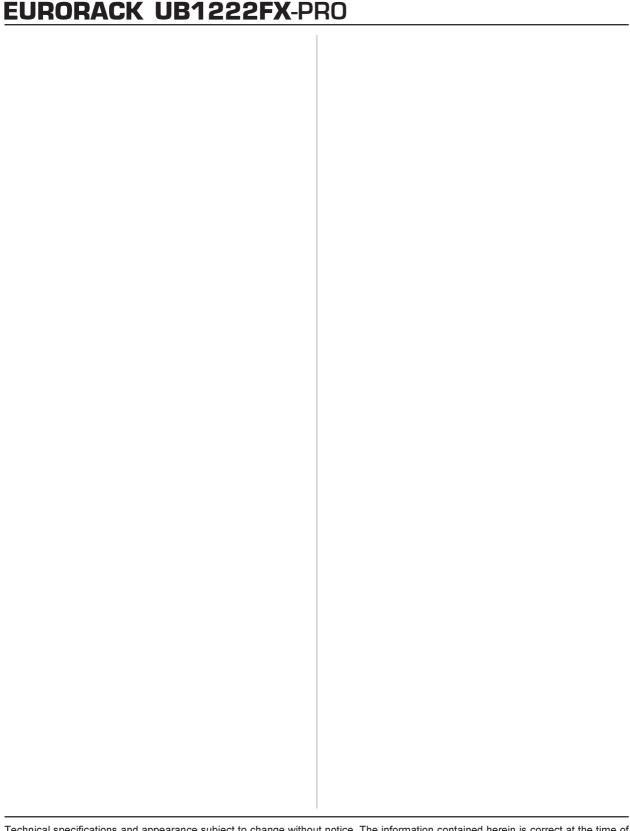
Weight (net) approx. 3.80 kg (8.38 lbs.)

Measuring conditions:

1: 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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BEHRINGER Spezielle Studiotechnik GmbH, Hanns-Martin-Schleyer-Str. 36-38, 47877 Willich-Münchheide II, Germany Tel. +49 2154 9206 0, Fax +49 2154 9206 4903