

UB1622FX-PRO

EURORACK

# Technical Specifications



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## EURORACK UB1622FX-PRO

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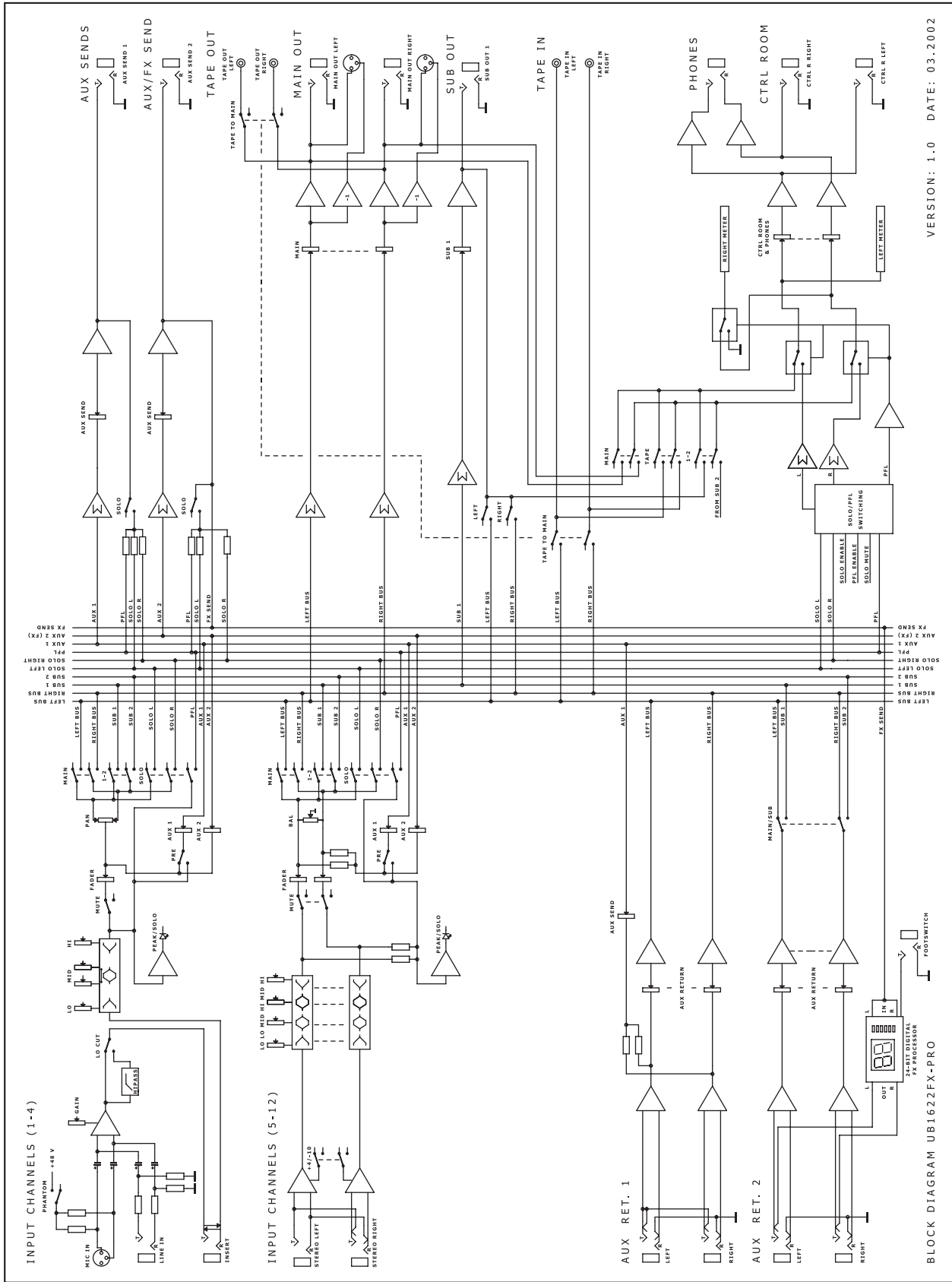
**Ultra Low-Noise Design 16-Input 2/2-Bus Mic/Line Mixer with Premium Mic Preamplifiers and 24-Bit Multi-FX Processor**



- ▲ 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)
- ▲ Studio-grade 24-bit 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
- ▲ Inserts on each mono channel for flexible connection of outboard equipment
- ▲ 12 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/post fader switchable for monitoring/FX applications, 1 post fader (for internal FX or as external send)
- ▲ Peak LEDs, mute, main mix and subgroup routing switches, 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
- ▲ Main mix outputs with jack and gold-plated XLR connectors, 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 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
- ▲ Rack mount brackets included
- ▲ High-quality component components and exceptionally rugged construction ensure long life
- ▲ Conceived and designed by BEHRINGER Germany

# EURORACK UB1622FX-PRO

## BLOCK DIAGRAM



VERSION: 1.0 DATE: 03.2002



# EURORACK UB1622FX-PRO

## SPECIFICATIONS

### Microphone inputs (IMP Invisible Mic Preamp)

Type	XLR, electronically balanced, discrete input circuit
Mic E.I.N. (20 Hz - 20 kHz)	
@ 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)
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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
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### Line input

Type	1/4" TRS connector electronically balanced
Impedance	approx. 20 k $\Omega$ balanced 10 k $\Omega$ unbalanced
Gain range	-10 to +40 dB
Max. input level	+22 dBu @ 0dB Gain

### Fade-out attenuation<sup>1</sup> (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	1/4" TRS connector, electronically balanced
Impedance	approx. 20 k $\Omega$
Max. input level	+22 dBu

### EQ mono channels

Low	80 Hz / $\pm$ 15 dB
Mid	100 Hz - 8 kHz / $\pm$ 15 dB
High	12 kHz / $\pm$ 15 dB

### EQ stereo channels

Low	80 Hz / $\pm$ 15 dB
Low Mid	500 Hz / $\pm$ 15 dB
High Mid	3 kHz / $\pm$ 15 dB
High	12 kHz / $\pm$ 15 dB

### Aux sends

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

### Stereo aux returns

Type	1/4" TRS connector, electronically balanced
Impedance	approx. 20 k $\Omega$ bal. / 10 k $\Omega$ unbal.
Max. input level	+22 dBu

### Main outputs

Type	1/4" TS connector unbalanced
Impedance	approx. 240 $\Omega$ balanced / 120 $\Omega$ unbalanced
Max. output level	+22 dBu

### Control room outputs

Type	1/4" TS connector unbalanced
Impedance	approx. 120 $\Omega$
Max. output level	+22 dBu

### Headphones outputs

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

### DSP

Converter	24-bit 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 @ - $\infty$	-101 dB
Main mix @ 0 dB	
Channel fader @ - $\infty$	-96 dB
Main mix @ 0 dB	
Channel fader @ 0 dB	-83 dB

### Power supply

Mains voltage	100 to 240 V~, 50/60 Hz
Power consumption	37 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. 3 7/8" x 11 7/8" x 13 7/8" (97 mm x 301 mm x 351 mm)
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Weight (net)	approx. 3.3 kg
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### Measuring conditions:

- 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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Hanns-Martin-Schleyer-Str. 36-38, 47877 Willich-Münchheide II, Germany.  
Tel. +49 2154 9206 0, Fax +49 2154 9206 4903

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