

EUROSTACK PRO RX1202FX

Technical Specifications

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EURORACK PRO

Ultra-Low Noise Design 12-Input Mic/Line Rack Mixer with Premium Mic Preamplifiers and 24-Bit Multi-FX Processor

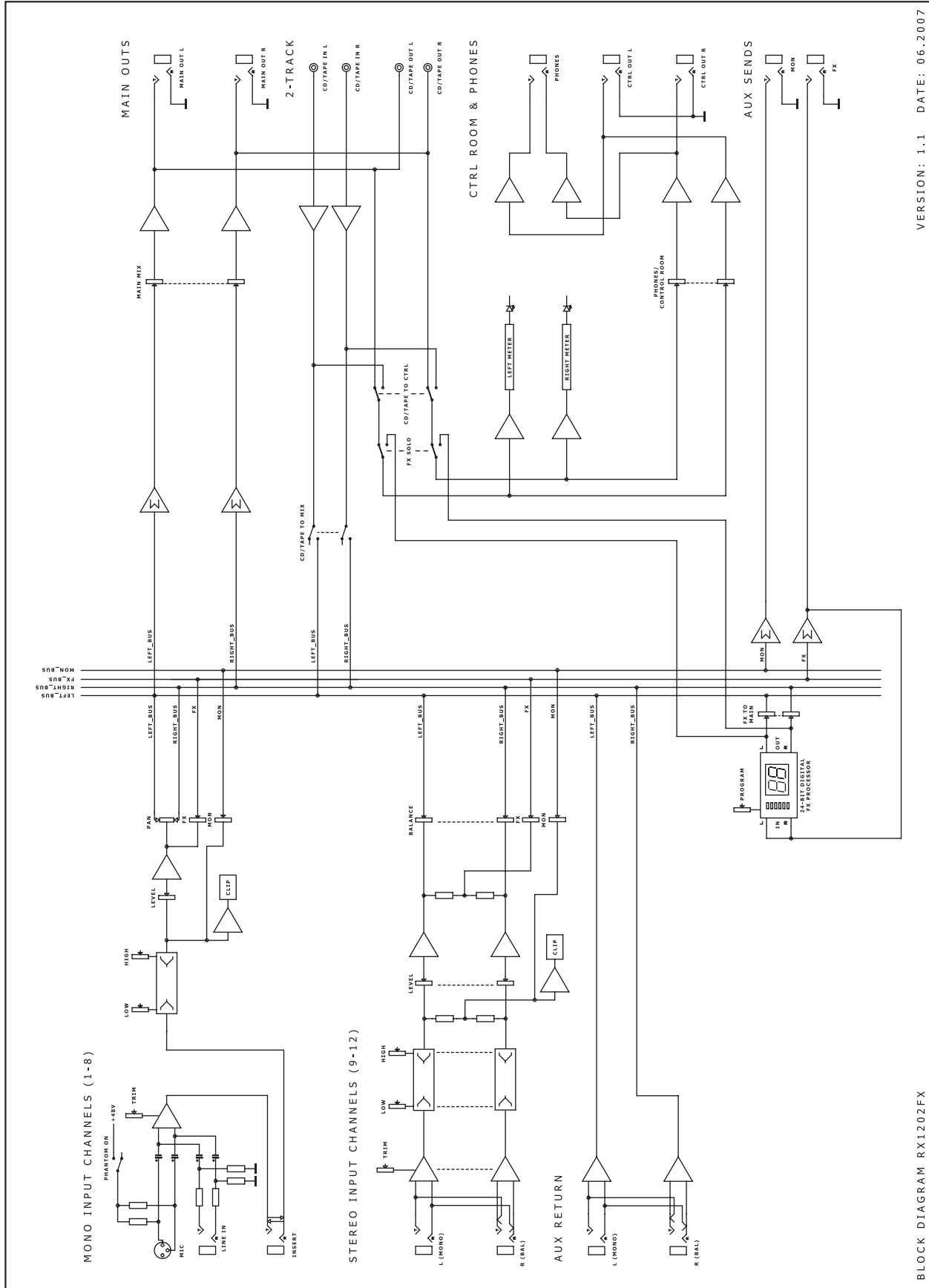
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- ▲ Ultra-low noise ULN design, highest possible headroom, ultra-transparent audio
- ▲ 8 new state-of-the-art, studio-grade IMP "Invisible" Mic Preamps with:
 - 130 dB dynamic range for 24-bit, 192 kHz sampling rate inputs
 - Ultra-wide 60 dB gain range
- ▲ Integrated 24-bit digital stereo FX processor with 100 awesome presets including reverb, chorus, flanger, delay, pitch shifter and various multi-effects
- ▲ Effective, extremely musical 2-band EQ and Clip LED on all channels
- ▲ 4 balanced high-headroom 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 applications, 1 post fader for internal FX or as external send
- ▲ CD/tape inputs assignable to main mix or control room/phones outputs
- ▲ Separate control room, phones and stereo CD/tape outputs
- ▲ Balanced main mix outputs with gold-plated XLR connectors
- ▲ 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
- ▲ High-quality components and exceptionally rugged construction ensure long life
- ▲ Conceived and designed by BEHRINGER Germany

RX1202FX

EURORACK PRO RX1202FX

BLOCK DIAGRAM



VERSION: 1.1 DATE: 06.2007

BLOCK DIAGRAM RX1202FX



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SPECIFICATIONS

MONO INPUTS

MIC (IMP Invisible Mic Preamp)

Type	XLR, electr. balanced
Mic E.I.N. (20 Hz – 20 kHz)	
@ 0 Ω source resistance	-132 dB / -134 dB A-weighted
@ 50 Ω source resistance	-130 dB / -132 dB A-weighted
@ 150 Ω source resistance	-128 dB / -130 dB A-weighted

Frequency response	<10 Hz – 200 kHz
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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
Distortion (THD+N)	0.003%, A-weighted

LINE IN

Type	¼" TRS connector, electronically balanced
Impedance	approx. 20 k Ω balanced 10 k Ω unbalanced
Gain range	-10 dB to +40 dB
Max. input level	+22 dBu @ 0 dB gain

STEREO INPUTS

Type	¼" TRS connector, electronically balanced
Impedance	approx. 20 k Ω balanced 10 k Ω unbalanced
Max. input level	+22 dBu

INSERT

Type	¼" TRS connector (Tip=Send, Ring=Return)
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AUXILIARY INPUTS

CD/TAPE IN

Type	RCA connectors, unbalanced
Impedance	approx. 20 k Ω
Max. input level	+22 dBu

AUX RETURN

Type	¼" TRS connector, balanced
Impedance	approx. 20 k Ω balanced 10 k Ω unbalanced
Max. input level	+22 dBu

OUTPUTS

AUX SENDS (FX)

Type	¼" TRS connector, impedance balanced
Impedance	approx. 240 Ω balanced 120 Ω unbalanced
Max. output level	+22 dBu

AUX SENDS (MON)

Type	¼" TRS connector, impedance balanced
Impedance	approx. 240 Ω balanced 120 Ω unbalanced
Max. output level	+22 dBu

MAIN OUT

Type	XLR connectors, balanced
Impedance	approx. 240 Ω balanced 120 Ω unbalanced
Max. output level	+28 dBu balanced +22 dBu unbalanced

CTRL OUT

Type	¼" TRS connector, impedance balanced
Impedance	approx. 240 Ω balanced 120 Ω unbalanced
Max. output level	+22 dBu

CD/TAPE OUT

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

PHONES

Type	¼" TRS connector
Max. output level	+19 dBu / 150 Ω (316 mW)

EQ

Low	100 Hz / \pm 15 dB
High	12 kHz / \pm 15 dB

MAIN MIX SYSTEM DATA¹

Noise	
Main mix @ - ∞	
Channel fader - ∞	-98 dB / -101 dB A-weighted
Main mix @ 0 dB	
Channel fader - ∞	-85 dB / -88 dB A-weighted
Main mix @ 0 dB	
Channel fader @ 0 dB	-77 dB / -80 dB A-weighted

Fade attenuation²

(Crosstalk attenuation)	
Main fader closed	90 dB
Channel fader closed	90 dB

Frequency response

Microphone input to Main Out	
<20 Hz – 105 kHz	+1 dB / -1 dB
<10 Hz – 170 kHz	+3 dB / -3 dB

EFFECTS SECTION

Converter	24-bit Sigma-Delta
Frequency rate	40 kHz
Presets	100

POWER SUPPLY

Power consumption	18 W
Voltage	100 – 240 V~, 50/60 Hz
Fuse	100 – 240 V~: T 1.6 A H 250 V
Mains connection	IEC (power) cable

DIMENSIONS/WEIGHT

RX1202FX	
Dimensions (H x W x D)	approx. 5 1/5" x 19" x 5 9/10" (133 mm x 482 mm x 150 mm)
Weight (net)	approx. 6.4 lbs. (2.9 kg)

Measuring conditions:

- 20 Hz – 20 kHz; measured at main output.
Channels 1 – 8 gain @ unity; EQ flat; all channels on main mix; channels 1/3/5/7 leftmost, channels 2/4/6/8 rightmost.
Reference = +6 dBu.
- 1 kHz relative to 0 dBu; 20 Hz – 20 kHz; line input; main output; gain @ unity.

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