

2442FX

Technical Specifications



Version 1.0 January 2006



XENYX

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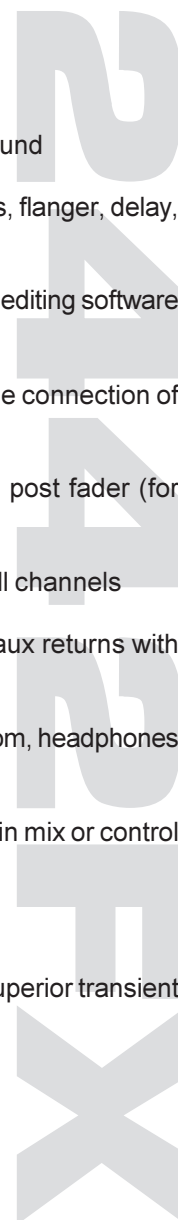
XENYX 2442FX

XENYX

Premium 24-Input 4/2-Bus Mixer with XENYX Mic Preamps, British EQs, 24-Bit Multi-FX Processor and USB/Audio Interface

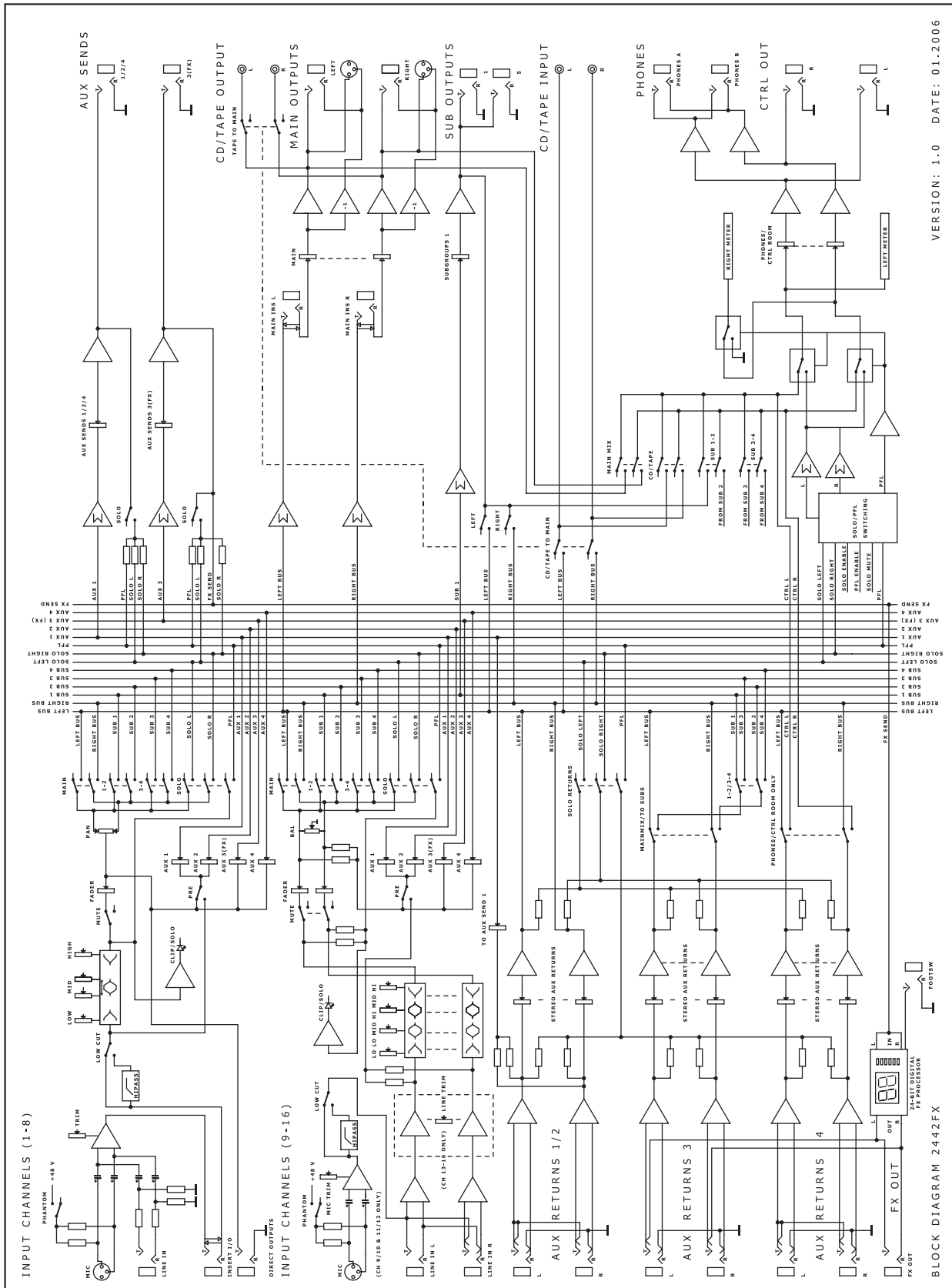


- ▲ Premium ultra low-noise, high headroom analog mixer
- ▲ 10 state-of-the-art XENYX Mic Preamps comparable to stand-alone boutique preamps
- ▲ Neo-classic 'British' 3-band EQs with semi-parametric mid band for warm and musical sound
- ▲ Studio-grade 24-bit stereo FX processor with 100 awesome presets including reverb, chorus, flanger, delay, pitch shifter and various multi-effects
- ▲ USB/Audio Interface included to connect directly to your computer. Free audio recording and editing software downloadable at www.behringer.com
- ▲ Channel inserts and direct outputs on each mono channel plus main mix inserts for flexible connection of outboard equipment
- ▲ 4 aux sends per channel: 2 pre/post fader switchable for monitoring/FX applications, 2 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
- ▲ 4 subgroups with separate outputs for added routing flexibility; 4 multi-functional stereo aux returns with flexible routing
- ▲ Balanced main mix outputs with ¼" 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
- ▲ Long-wearing 60 mm logarithmic-taper faders and sealed rotary controls
- ▲ Internal autorange power supply for maximum flexibility (100 - 240 V~), noise-free audio, superior transient response plus low power consumption for energy saving
- ▲ Rack mount brackets included for ultimate flexibility
- ▲ High-quality components and exceptionally rugged construction ensure long life
- ▲ Conceived and designed by BEHRINGER Germany



XENYX 2442FX

BLOCK DIAGRAM



VERSION: 1.0 DATE: 01.2006



BLOCK DIAGRAM 2442FX

XENYX 2442FX

SPECIFICATIONS

Microphone inputs (XENYX 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)
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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 (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 Ω balanced 10 k Ω unbalanced
Gain range	-10 to +40 dB
Max. input level	30 dBu

Fade-out attenuation¹ (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 Ω
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	1/4" TS connector, unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

Stereo aux returns

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

Main outputs

Type	XLR, electronically balanced and 1/4" TRS balanced
Impedance	approx. 240 Ω balanced / 120 Ω unbalanced
Max. output level	+28 dBu

Control room outputs

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

Headphones outputs

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

DSP

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

Main mix system data²

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 3/8" x 16 1/2" x 17 1/4" (136 mm x 418 mm x 438 mm)
Weight (net)	approx. 5.9 kg

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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