1622FX

Technical Specifications

GB

Version 1.0 January 2006

XENYX

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XENYX

Premium 16-Input 2/2-Bus Mixer with XENYX Mic Preamps, British EQs, 24-Bit Multi-FX Processor and USB/Audio Interface

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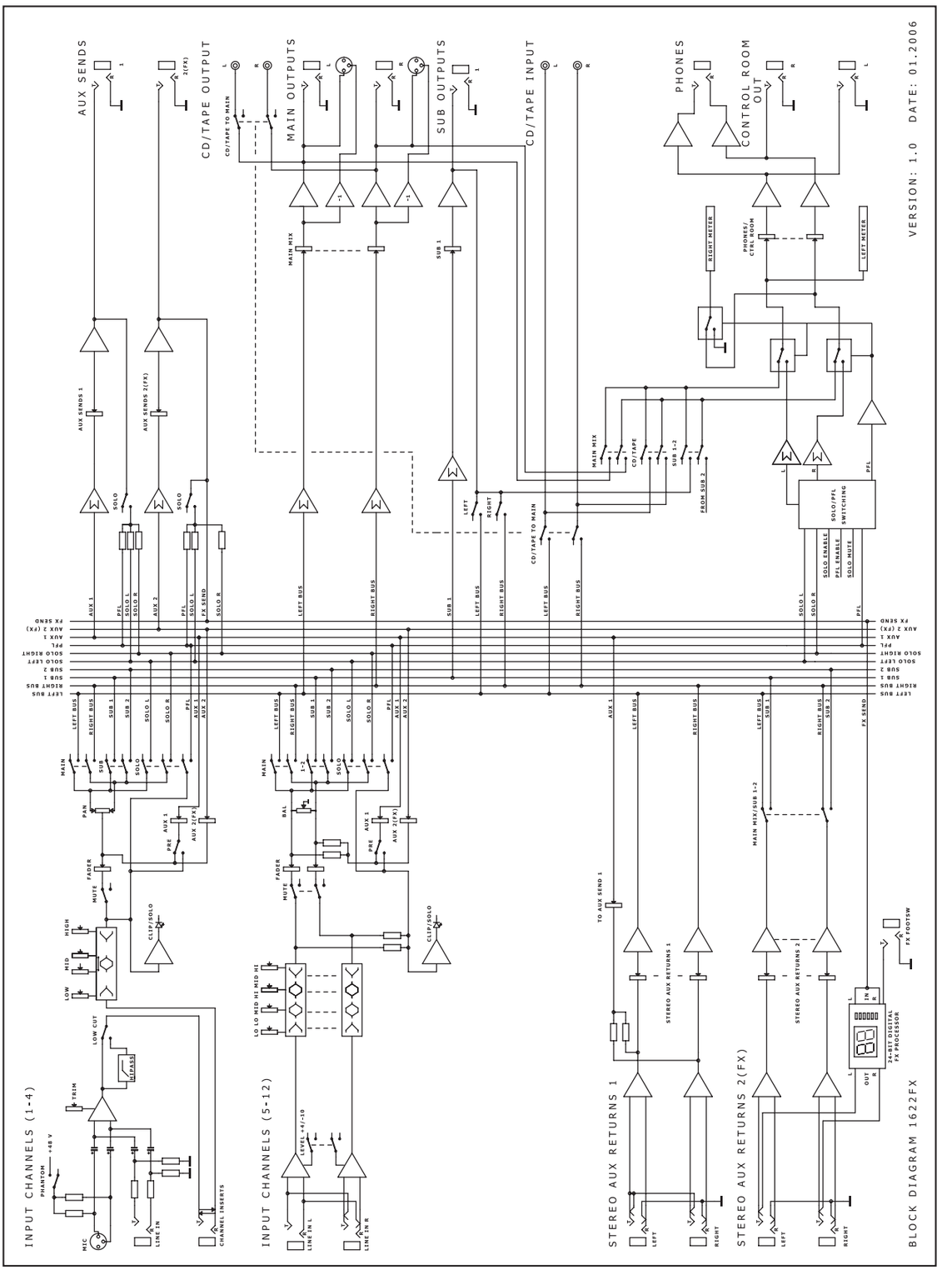
- ▲ Premium ultra low-noise, high headroom analog mixer
- ▲ 4 state-of-the-art XENYX Mic Preamps comparable to stand-alone boutique preamps
- ▲ Neo-classic ´British´ 3-band EQs with semi-parametric mid band for warm and musical sound
- ▲ Studio-grade 24-bit stereo FX processor with 100 awesome presets 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 on each mono channel for flexible connection of outboard equipment
- ▲ 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 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

BLOCK DIAGRAM



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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)
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	1/4" 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	1/4" 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	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 kΩ bal. / 10 kΩ unbal.
Max. input level	+22 dBu
Main outputs	
Type	1/4" TS connector unbalanced
Impedance	approx. 240 Ω balanced / 120 Ω unbalanced
Max. output level	+22 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	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 @ -∞	-101 dB
Main mix @ 0 dB, Channel fader @ -∞	-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)
Weight (net)	approx. 3.3 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.