

1204FX

XENYX

Specifications

Version 1.0 January 2006

www.behringer.com



XENYX 1204FX

XENYX

Premium 12-Input 2/2-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
- ▲ 4 state-of-the-art XENYX Mic Preamps comparable to stand-alone boutique preamps
- ▲ Neo-classic "British" 3-band EQs 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
- ▲ 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/alt 3-4, 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
- ▲ Balanced main mix outputs with gold-plated XLR connectors plus 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

1204FX

SPECIFICATIONS

Mono inputs

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 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
--------------------	----------------------------

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	89.5 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 / \pm 15 dB
Mid	2.5 kHz / \pm 15 dB
High	12 kHz / \pm 15 dB

EQ stereo channels

Low	80 Hz / \pm 15 dB
Mid	2.5 kHz / \pm 15 dB
High	12 kHz / \pm 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
Impedance	approx. 240 Ω bal. / 120 Ω unbal.
Max. output level	+28 dBu

Control room outputs

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

Headphones output

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

DSP

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

Main mix system data²

Noise	
Main mix @ - ∞ ,	
Channel fader - ∞	-105 dB / -108 dB A-weighted
Main mix @ 0 dB,	
Channel fader - ∞	-95 dB / -97 dB A-weighted
Main Mix @ 0 dB,	
Channel fader @ 0 dB	-82,5 dB / -85 dB A-weighted

Power supply

Mains voltage	100 - 240 V~, 50/60 Hz
Power consumption	40 W
Fuse	100 - 240 V~: T 1.6 A H 250 V
Mains connection	Standard IEC receptacle

Physical

Dimensions (H x W x D)	approx. 97 mm (3 7/8") x 247 mm (9 11/16") x 334 mm (13 5/32")
Weight (net)	approx. 2.60 kg (5 3/4 lbs)

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.

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

Technical specifications and appearance subject to change without notice. The information contained herein is correct at the time of printing. The names of companies, institutions or publications pictured or mentioned and their respective logos are registered trademarks of their respective owners. Their use neither constitutes a claim of the trademarks by BEHRINGER® nor affiliation of the trademark owners with BEHRINGER®. BEHRINGER® accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph or statement contained herein. Colours and specification may vary slightly from product. Products are sold through our authorised dealers only. Distributors and dealers are not agents of BEHRINGER® and have absolutely no authority to bind BEHRINGER® by any express or implied undertaking or representation. No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording of any kind, for any purpose, without the express written permission of BEHRINGER Spezielle Studioteknik GmbH. BEHRINGER® is a registered trademark.

ALL RIGHTS RESERVED. © 2006 BEHRINGER Spezielle Studioteknik GmbH,
Hanns-Martin-Schleyer-Str. 36-38, 47877 Willich-Münchheide II, Germany.
Tel. +49 2154 9206 0, Fax +49 2154 9206 4903
