

XENYX

502

Specifications

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XENYX 502

Premium 5-Input 2-Bus Mixer with XENYX Mic Preamp and British EQ

- ▲ Premium ultra low-noise, high headroom analog mixer
- ▲ State-of-the-art XENYX Mic Preamp comparable to stand-alone boutique preamps
- ▲ Neo-classic "British" 2-band EQ for warm and musical sound
- ▲ Main mix, stereo CD/tape plus separate headphone outputs
- ▲ CD/tape inputs assignable to headphone output or main mix outputs
- ▲ High-quality components and exceptionally rugged construction ensure long life
- ▲ Conceived and designed by BEHRINGER Germany



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1. Specifications

Mono inputs

Microphone inputs (XENYX Mic preamp)

Type XLR connector, electronically balanced, discrete input circuit

Mic E.I.N.¹(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 dB 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 ¼" TRS jack, electronically balanced
 Impedance approx. 20 kΩ balanced, approx. 10 kΩ unbalanced
 Gain range -10 dB to +40 dB
 Max. input level +22 dBu @ 0 dB GAIN

Fade-out attenuation²(Crosstalk attenuation)

Main fader closed 90 dB
 Channel muted 89.5 dB
 Channel fader muted 89 dB

Frequency response (Mic In → Main Out)

<10 Hz - 90 kHz +0 dB / -1 dB
 <10 Hz - 160 kHz +0 dB / -3 dB

Stereo inputs

Type ¼" TRS jack, electronically balanced
 Impedance approx. 20 kΩ
 Max. input level +22 dBu

Equalizer

EQ mono channels

LOW 80 Hz / ±15 dB
 MID 2.5 kHz / ±15 dB
 HIGH 12 kHz / ±15 dB

EQ stereo channels

LOW 80 Hz / ±15 dB
 MID 2.5 kHz / ±15 dB
 HIGH 12 kHz / ±15 dB

Send / Return

Aux sends

Type ¼" TS jack, unbalanced
 Impedance approx. 120 Ω
 Max. output level +22 dBu

Stereo aux returns

Type ¼" TRS jack, electronically balanced
 Impedance approx. 20 kΩ balanced / approx. 10 kΩ unbalanced
 Max. input level +22 dBu

Outputs

Main outputs

Type ¼" TRS jack, unbalanced
 Impedance approx. 120 Ω unbalanced
 Max. output level +22 dBu

Control room outputs

Type ¼" TS jack, unbalanced
 Impedance approx. 120 Ω
 Max. output level +22 dBu

Headphones output

Type ¼" TRS jack, unbalanced
 Max. output level +19 dBu / 150 Ω (+25 dBm)

Main mix system data³(Noise)

Main mix @ -∞, channel fader @ -∞ -106 dB / -109 dB A-weighted
 Main mix @ 0 dB, channel fader @ -∞ -95 dB / -98 dB A-weighted
 Main mix @ 0 dB, channel fader @ 0 dB -84 dB / -87 dB A-weighted

Power supply

Physical/weight

Dimensions (H x W x D) 1.9" / 1.5" x 5.3" x 7"
 (47 mm / 37 mm x 134 mm x 177 mm)
 Weight (net) 1.2 lbs (0.55 kg)

¹ Equivalent Input Noise

² Measuring conditions: 1 kHz rel. to 0 dBu; 20 Hz - 20 kHz; line input; main output; unity gain.

³ 20 Hz - 20 kHz; 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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