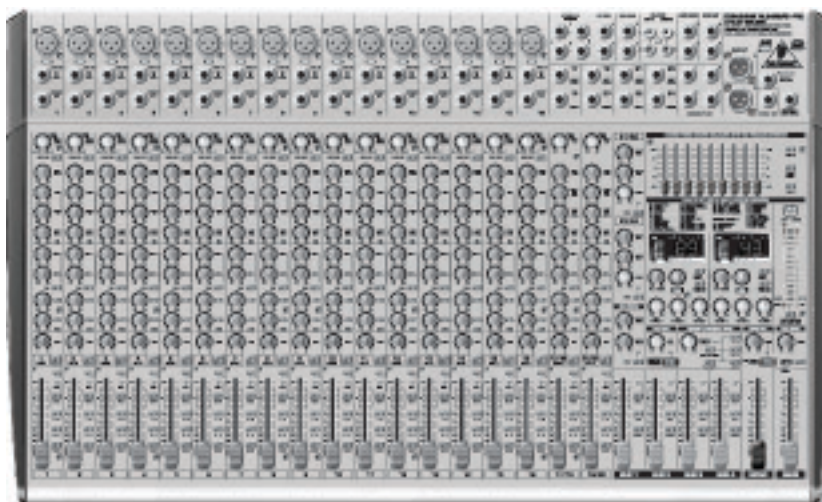


EURODESK SL2442FX-PRO

Technical Specifications

Version 1.0 January 2004

ENGLISH



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EURODESK SL2442FX-PRO

EURODESK

Ultra Low-Noise Design 24-Input 4-Bus Studio/Live Mixer with Premium Mic Preamplifiers and Dual Digital 24-Bit Multi-FX Processor

- ▲ Ultra low-noise ULN design, highest possible headroom, ultra-transparent audio
- ▲ 16 new state-of-the-art, studio-grade IMP “Invisible” Mic Preamps with:
 - o 130 dB dynamic range for 24-bit, 192 kHz sampling rate inputs
 - o Ultra-wide 60 dB gain range
 - o Lowest possible distortion 0.0007% (20 Hz - 20 kHz)
- ▲ 2 independent 24-bit digital stereo FX processors with 99 great-sounding VIRTUALIZER presets including reverb, delay, chorus, compressor, tube distortion and more
- ▲ High precision 9-band stereo graphic EQ allows precise frequency correction of monitor or main mixes
- ▲ Revolutionary, patent-pending FBQ Feedback Detection System instantly reveals critical frequencies
- ▲ 2 fully featured stereo input channels with 4-band EQ plus 2 additional stereo input channels with level and pre-fader aux facilities
- ▲ Effective, extremely musical 3-band EQ plus switchable low cut filter on all mono channels
- ▲ Inserts on each mono channel and main mix for flexible connection of outboard equipment
- ▲ 4 subgroups and additional mono output with sweepable low pass filter for subwoofer application
- ▲ 4 aux sends per channel: 2 switchable pre/post fader, 2 post fader (for internal FX and/or as external send)
- ▲ Gain level set and clip indication LEDs plus mute switches for each channel allow fast and accurate level setting
- ▲ Balanced main mix outputs with gold-plated XLR and ¼" TRS connectors, headphone/control room output and stereo tape outputs
- ▲ Solo-In-Place and Pre-Fader-Listen functions plus full-featured talkback section
- ▲ Standby switch mutes all channels during breaks while background music is provided via CD/tape inputs
- ▲ State-of-the-art 4580 operational amplifiers provide lowest noise and distortion—better than 4560 op amps
- ▲ Long-wearing logarithmic-taper ALPS® 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
- ▲ Extremely rugged construction ensures long life even under most demanding conditions
- ▲ Designed in Germany. Manufactured under ISO9000 certified management system

SPECIFICATIONS

Mono inputs

Microphone inputs (IMP "Invisible" 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 / 134 dB A-weighted
@ 150 Ω source resistance	-129 dB / 130.5 dB A-weighted

Frequency response	<10 Hz - 160 kHz (-1 dB), <10 Hz - 200 kHz (-3 dB)
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Gain	+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)	0.004% / 0.003% A-weighted

Line inputs

Type	1/4" TRS connector, electronically balanced
Impedance	approx. 20 kΩ balanced 10 kΩ unbalanced

Gain	-10 to +40 dB
Max. input level	+22 dBu @ 0 dB gain

Crosstalk¹

Main fader closed	90 dB
Channel muted	84 dB
Channel fader closed	85 dB

Frequency response

Microphone input to main out	
<10 Hz - 70 kHz	+0 dB / -1 dB
<10 Hz - 160 kHz	+0 dB / -3 dB

Stereo inputs

Type	2 x 1/4" TRS connector, balanced
Impedance	approx. 20 kΩ balanced / 10 kΩ unbalanced
Gain	-20 dB to +20 dB
Max. input level	+22 dBu @ 0 dB gain

CD/tape in

Type	RCA
Impedance	approx. 10 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

Low cut	80 Hz, 18 dB/oct.
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EQ stereo channels

Low	80 Hz / ±15 dB
Low mid	400 Hz / ±15 dB
High mid	3 kHz / ±15 dB
High	12 kHz / ±15 dB

Channel inserts

Type	1/4" TRS connector, unbalanced
Max. input level	+22 dBu

AUX/FX send

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

FX returns

Type	1/4" TS connector, unbalanced
Impedance	approx. 10 kΩ
Max. input level	+22 dBu

Subgroup outputs

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

Main outputs (XLR)

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

Main outputs (1/4")

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

Main inserts

Type	1/4" TRS connector, unbalanced
Max. input level	+22 dBu

Mono output

Type	1/4" TS connector, unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu
Low pass	variable 30 Hz - 200 Hz, 18 dB/oct.

Phones/CTRL room output

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

CD/tape out

Type	RCA
Impedance	approx. 1 kΩ
Max. output level	+22 dBu

DSP

Converter	Texas Instruments® 24-bit Sigma-Delta, 64/128-times oversampling
Sampling rate	46 kHz

Main Mix system data²

Noise	
Main mix @ -∞, Channel fader -∞	-100 dB / -102,5 dB A-weighted
Main mix @ 0 dB, Channel fader -∞	-82 dB / -85 dB A-weighted
Main mix @ 0 dB, Channel fader @ 0 dB	-72 dB / -75 dB A-weighted

Power supply

Power consumption	50 W
Fuse	100 - 240 V~: T 2 A H
Mains connection	Standard IEC receptacle

Dimensions/weight

Dimensions (H x W x D)	approx. 100 mm (3 9/16") x 682 mm (26 9/8") x 410 mm (16 1/8")
Weight (net)	approx. 8.5 kg

Measuring conditions:

ad 1: 1 kHz rel. to 0 dBu; 20 Hz - 20 kHz; line input; main output; gain @ unity.

ad 2: 20 Hz - 20 kHz; measured at main output.
Channels 1 - 4 gain @ unity; EQ flat; all channels to main mix; channels 1/3 hard left,
channels 2/4 hard right. Reference = +6 dBu.

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