:DB4

NEXT GENERATION DIGITAL DJ FX MIXER

XONE:DB4

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DIGITAL ARCHITECTURE SPECIFICATION:

Analogue/Digital conversion	24 bit
Analogue/Digital Line-up	+12dBu = 0dBFS
DSP processing	24 bit I/O + 48 bit EQ
DSP Mix Bus	56 bit Fixed Point
DSP core sampling frequency	48kHz
USB soundcard sampling frequency range	44.1kHz to 96kHz
SPDIF input sampling frequency range	32kHz to 192kHz
SPDIF output sampling frequency	48kHz

SPECIFICATIONS:

Operating levels

Main outputs	0VU = +4dBu
Monitor	0VU = +4dBu
Record	0VU = +4dBu
Maximum output level	+16dBu balanced
Mic Sensitivity	-20dB to -50dB
RIAA input sensitivity 1kHz	70mV = 0VU (200mV max)
Frequency response Line in to Mix out	10Hz - 20kHz +0/-0.5dB
Distortion at 1kHz Line in at +0Vu out	0.003% (-90dB) un-weighted
Main Mix noise 22Hz- 22KHz un-weighted	-88dBu (104dB dynamic range)
Residual Mix noise 22Hz- 22KHz un-weighted	-94dBu
Equalization	+6dB boost/-26dB or Total Kill 3 Band
Fader Shutoff	-110dBr

DIMENSIONS AND WEIGHTS

The console is fitted with rubber feet for desktop operation. A screw on rack ear kit is available for 19" rack or plinth mounting.

	Width	Height	Depth	Weight
Desktop	320 mm (12.6")	88 mm (3.5")	358 mm (14")	5.1 kg (11 lbs)
Rack ears fitted	483 mm (19")	88 mm (3.5")	358 mm (14")	
Packed	530 mm (20.9")	470 mm (18.5")	260 mm (10.2")	8.6 kg (19 lbs)

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"The Xone:DB4 is a truly ground-breaking mixer and by far the most advanced product that we have designed. Every feature has been meticulously researched with a view to offering DJs ultimate creativity. Based on the iLive pro-touring FX system, we developed FX algorithms with BPM conscious parameters and tight spectral control, customised to perfectly fit the DJ environment.

As the loops and FX are automatically synchronised to the tempo of the track, it is very easy to build some amazing grooves and soundscapes without problems of latency, low fidelity and the general hassle often associated with using software and laptops. The icing on the cake is the flexible input matrix, where any audio source can be selected on any or all of the channels.

Different processing can be applied to the same track on separate channels and you can fade between them, or a phrase sampled in the looper of one channel can be added to the mix later in the track. Our digital design team has done an incredible job to ensure that this is one of the most innovative and exciting DJ mix tools to date."

Andy Rigby-Jones

Xone Design Manager

Features:

☐ **Quad FX Core**
The heart of the Xone:DB4 is the powerful Quad FX Core DSP engine, enabling each channel to have its own FX bank and BPM detection system, which automatically adjusts all time-related FX and loops to the tempo of the music. There are 5 studio quality FX types optimised for DJ use - delays, reverbs, modulators, resonators and damage - plus each FX type has a patch library of different effect variations. Each FX bank has a dedicated expression control and a rotary pot to set the wet/dry level, whilst further tweaking can be performed using the global controllers in the FX master section.

☐ **Looper**
Each channel has a built-in looper, with selectable loop length from 1/16 beat to 4 bars. :DB4 will always record the full 4 bars, so the loop can be expanded or shrunk at will.

☐ **Filters**
:DB4 comes equipped with the Xone dual filter system.

☐ **Source select**
Each music channel can select any of the available stereo music sources:
Analogue Line 1-4 (switchable to Phono on 2-3), Digital 1-4 or USB 1-4.

☐ **EQ / Filter**
Each music channel has a 3-band EQ that can be configured as standard asymmetric EQ (+6/-25dB), Isolator (+6dB/OFF with a 24dB/octave slope), or reconfigured as a High-Pass/Low-Pass filter system with adjustable resonance. EQ knob pointers change colour to show which type of equalization is active.

☐ **Mic/Line Input**
The Mic/Line input has 2-band EQ, gain, cue and mix level. This can also be routed to channel 1 for adding FX.

☐ **Integral Soundcard**
A built-in, high quality (24-bit / 96kHz), multi-channel, fully patchable USB2 soundcard allows replay and recording from audio software for 4 stereo sends and 4 stereo returns.

☐ **USB**
User-defined settings such as meter mode, BPM range, USB audio routing scheme and display brightness can be saved to a USB key for recall on another :DB4.

☐ **MIDI control**
All controls (except Mic and Phones level) send MIDI data and the mixer can double up as a MIDI controller via the MIDI shift button, allowing the Loop and FX selection controls to send MIDI data without changing the mixer settings.

☐ **Output Patchbay**
Booth, record and phones - source selectable and level trim. Booth and main - phase and level trim controls.

☐ **High Visibility Display**
The OLED display is clearly visible, even in bright sunlight, and displays channel FX selection and current BPM, as well as being an easy interface for the Menu setup functions.

☐ **Lightweight chassis**
:DB4's lightweight aluminium chassis is designed to make touring with the console easy.