





### \$3000 & DM32

# Design for Live

There is something inherently thrilling about live sound. The immediacy of the direct interaction between the performers and the audience, the potential for anything to happen, the need to get it right first time – this is what makes live mixing so addictive. As the demands for more and more I/O and increasingly complex systems grow, there's a danger of concentrating on the technology rather than the performance. Our design goal for dLive was to create the ultimate mixing system, with plenty of processing and flexibility to handle the most demanding live scenarios, while at the same time giving the engineer intuitive tools to comfortably keep all that power at their fingertips, freeing them to focus on the live mixing experience.



## XCVI Core

The power of dLive emanates from the XCVI Core – pioneered by the Allen & Heath R&D team using next generation FPGA technology, with 36 parallel virtual processing cores generating enough power for 160x64 channels of processing at 96kHz sampling rate. Six parallel mixing engines within the Core calculate over 10,000 cross points per sample, while the FPGA router has capacity for 3,000 x 3,000 audio paths. The massive power of XCVI (25 billion operations per second) allows dLive to deliver 128 full processing inputs and 16 stereo FX returns, a configurable 64 bus architecture, variable bit depth for ultimate precision and noise performance, a virtually infinite mix headroom thanks to a 96bit accumulator, and class leading latency at an ultra-low 0.58ms.



## DEEP Processing

Our DEEP processing architecture embeds class-leading compressors and processing emulations directly within dLive's input and mix channels. An array of bespoke algorithms including Graphic EQs and Compressor models can be inserted on the fly without burning FX slots and without the setup, latency and licence hassles associated with external plug-ins – they're right there, where you need them, whenever you need them. The compressor models capture the audio nuances and non-linear ballistics of industry classics, ranging from a Slow-Opto model, various RMS detection and soft knee circuits, through to super-fast peak and RMS based compression/limiting devices.

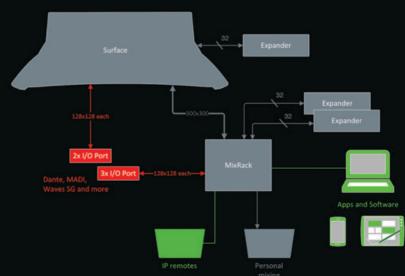


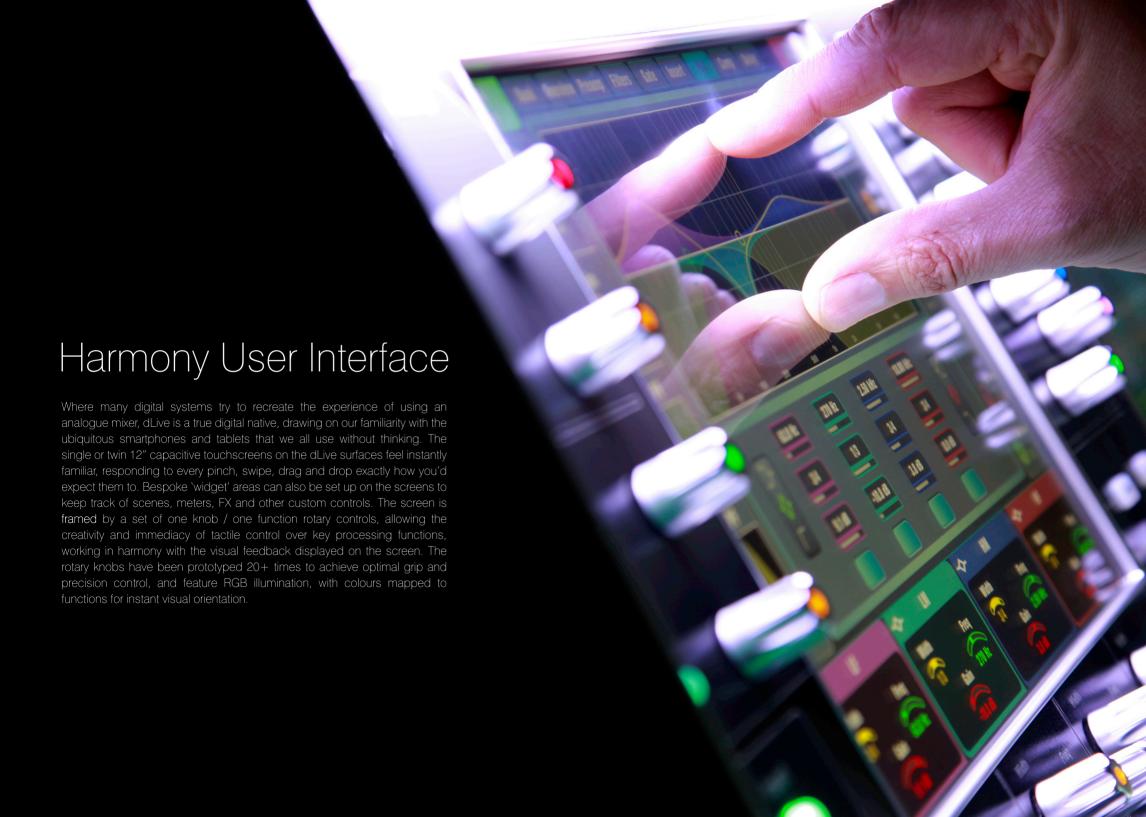




## dLive Ecosystem

dLive is so much more than a mixer. It is a fully developed ecosystem with over 800 system inputs and 800 outputs. The MixRack houses the XCVI core and is the brain of any dLive system. This brain is supported by surfaces, apps, software, TCP/IP control and IP remotes, all of which provide different means of controlling the mixer. Up to five 128ch I/O ports for a range of audio networking cards including all major digital protocols, the DX32 modular I/O expanders, plus full compatibility with our ME personal mixing system all extend the reach of the system. With so many control and expansion possibilities, dLive's inherently flexible architecture enables it to conquer practically any mixing challenge.





## Features

### System

Distributed system with separate MixRack and Surface

DX32 modular expansion racks for flexible I/O

DEEP processing - powerful embedded plugins

Pro touring grade construction

Redundant hot swappable power supply common across the range

Redundant connections throughout

Up to 814 system inputs and 824 outputs

Up to 5 audio networking option cards including Dante, Waves SG, ACE, MADI

Compatible with ME personal mixing system

### dLive Surfaces

Choice of 3 sizes (20, 28 or 36 faders)

Fully assignable layout - up to 216 fader strips

Harmony UI integrates screen and wrap-around controls

Single or twin 12" capacitive touchscreen

Gesture control - pinch, swipe, drag 'n drop

Configurable widget areas for Scenes, meters, FX and more

3 pages of 6 assignable rotaries per screen

26 assignable SoftKeys

Comprehensive multipoint metering

#### dLive MixRacks

Choice of 3 sizes (32, 48 or 64 mic inputs)

XCVI 160x64 FPGA core

96kHz sample rate

Variable bit-depth for ultimate precision and noise performance

Virtually infinite mix headroom thanks to 96bit accumulator

Class leading, ultra-low latency < 0.6ms

128 Input Channels with full processing

64 Mix Outputs with full processing

Configurable 64 bus architecture (group, FX, aux, matrix, mains)

LR, LCR and up to 5.1 mains mode

16 RackFX with dedicated stereo returns

New preamp design for extra transparency

#### Control

Networked wired or wireless control

Editor software for online or offline PC/Mac editing

dLive MixPad and OneMix apps

IP range of PoE remote controllers

TCP/IP protocol for third party integration

**Extensive User Permissions and Profiles** 

Comprehensive Scene management with Cue List, multiple Scene Update,

Crossfades, Recall Filters, Embedded Recalls, Auto Store, Recall Undo











