



**ALIVE**  
CClass

**ALLEN & HEATH**

# Design for Live

Firmly established at the leading edge of the new wave of digital consoles, dLive has rapidly earned its reputation for superior audio quality, next generation workflows, stunning FX and faithful processing emulations.

dLive C Class presents dLive's phenomenally powerful XCVI Core, DEEP processing suite and Harmony UI in a compact, portable format, making it the smart choice for corporate AV, multi-purpose venues, houses of worship, theatres and regional rental companies. dLive C Class remains true to the core dLive design mission to create a digital mixing system that makes the most sophisticated mixing challenges feel elegantly simple. From seasoned audio professional to new recruits, dLive has been crafted to allow the operator to keep their focus on the live mixing experience, not on the mixer.

Now with a thriving ecosystem of apps, software, remote controllers and more, dLive C Class is fully equipped to become the centrepiece of your next project.



CDM32



**dLIVE**  
C1500

CDM48

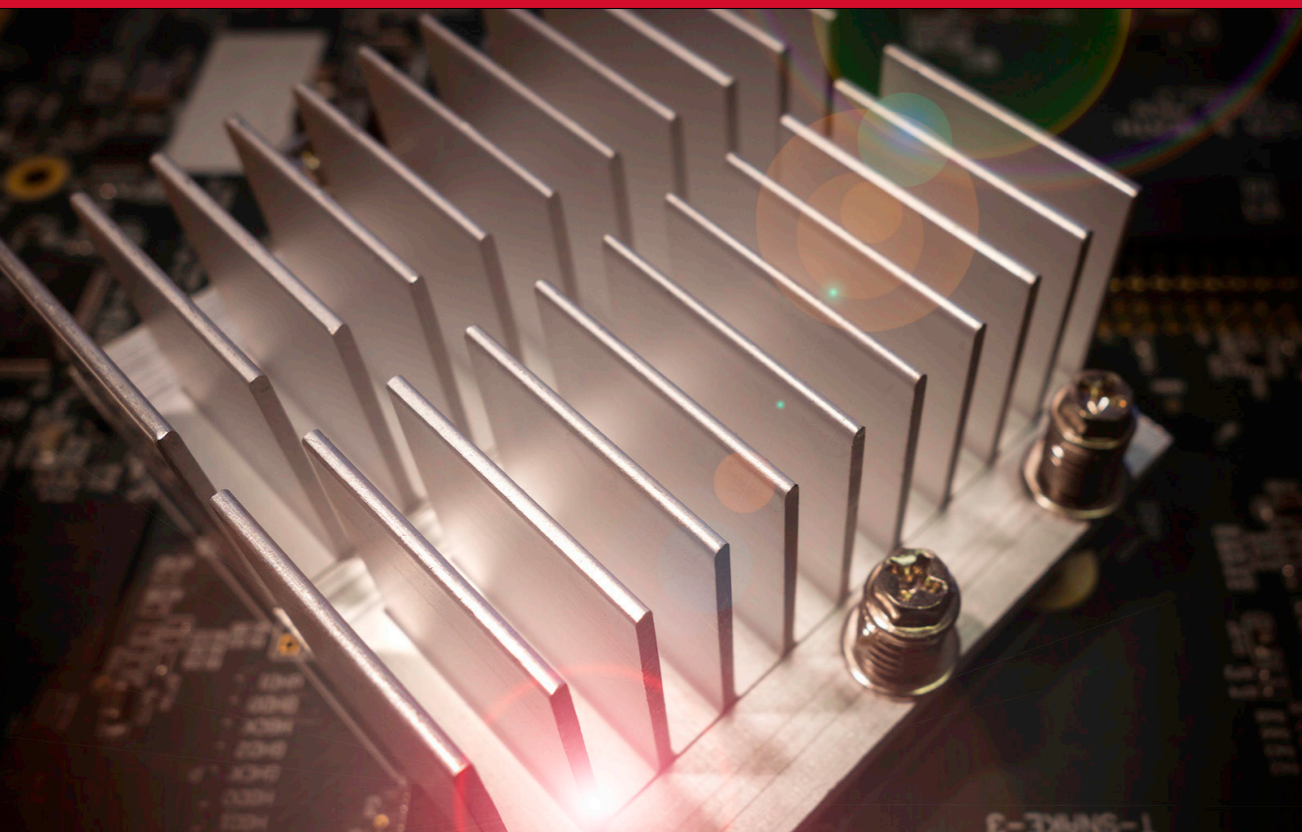


**dLIVE**  
C2500

CDM64



**dLIVE**  
C3500



# XCVI

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 0.7ms.

# DEEP Processing

Our DEEP processing architecture embeds highly acclaimed processing emulations directly within dLive's input and mix channels. An array of bespoke algorithms including graphic EQs, preamp and compressor models can be inserted on the fly without burning FX slots and without the setup, latency, phase coherency and licence hassles associated

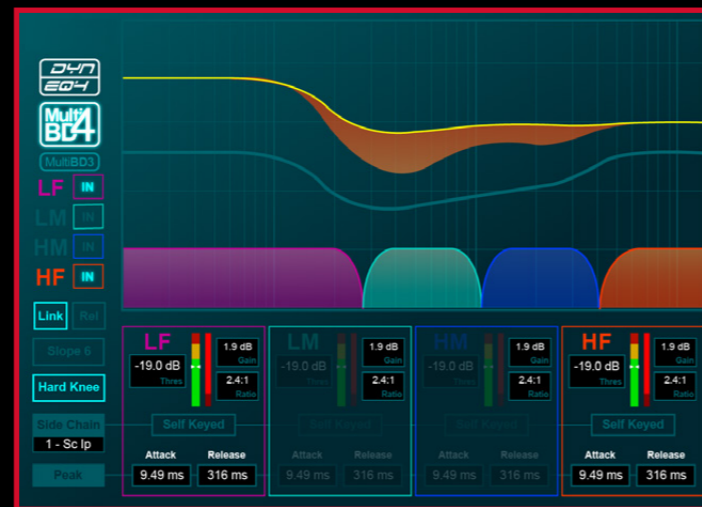
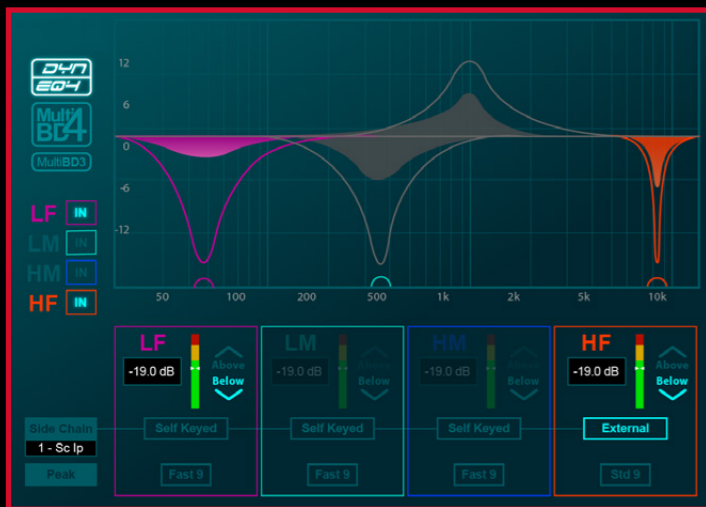
with external plug-ins – they're right there, where you need them, whenever you need them. The models capture the audio nuances and non-linear characteristics of industry classics, ranging from opto compressors to dual-stage valve designs.



# Dyn8

In addition to the array of channel-based processing choices, dLive offers a powerful and sophisticated tool boasting 4 bands of dynamic EQ and 4 bands of multiband compression. With endless applications including taming vocals, fixing drum kits, mastering,

tightening or gluing mixes, Dyn8 changes the way we think about dynamic processing. No less than 64 Dyn8 engines are available for inserting on Input and Mix channels, auto assigned to take the stress out of patching.



ECHO



BUCKET BRIGADE



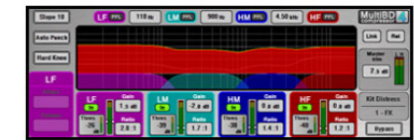
STEREO TAP DELAY



DYNAMIC EQ



MULTIBD3 MULTIBAND COMPRESSOR



MULTIBD4 MULTIBAND COMPRESSOR



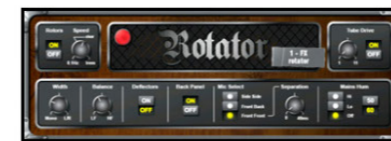
TRANSIENT CONTROLLER



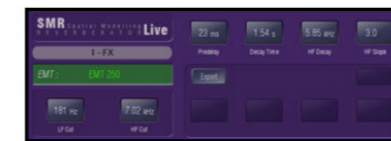
PITCH DOUBLER



VS1 VOCALSHIFT



ROTATOR



SMR LIVE



2 TAP DELAY



GATED VERB



ADT DOUBLER



CHORUS



ELECTRIC FLANGE



12 STAGE PHASER



SYMPHONIC CHORUS



HYPABASS



DE-ESSER

# RackExtra FX

The RackExtra FX portfolio combines the pristine quality and wide choice offered by boutique plug-ins with the convenience and low latency of onboard processing. It's no secret that we have a passion bordering on obsession for crafting painstakingly faithful emulations of the most revered outboard

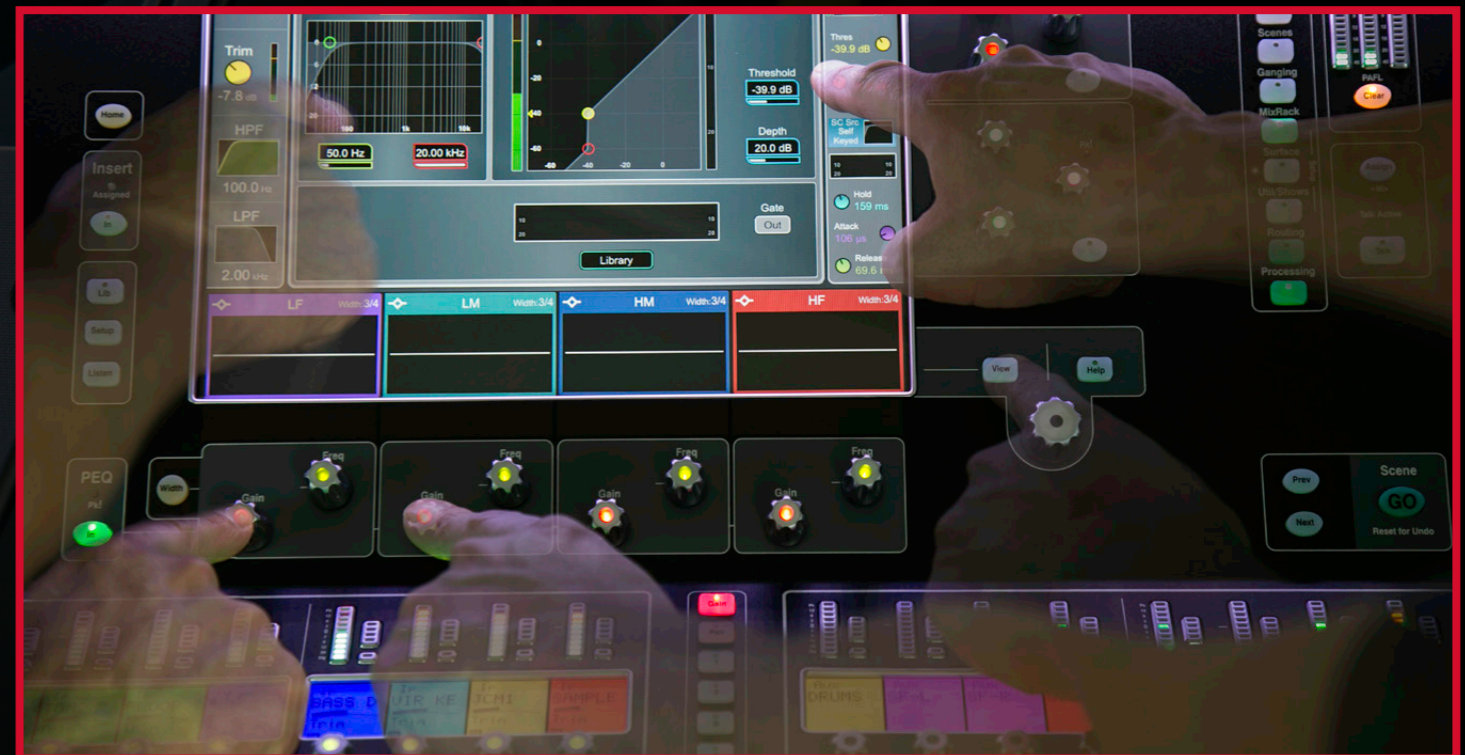
equipment. Drawing on the power of the XCVI Core, we have built hugely potent DSP kernels within the FPGA, allowing us to integrate our proven library of reverb, delay and modulator algorithms into dLive, with 16 FX slots available, each with a dedicated stereo return.

# Harmony User Interface

Where many digital consoles are still trying to recreate the experience of using an analogue mixer, dLive is a true digital native, drawing on our familiarity with the ubiquitous smartphones and tablets that we all use without thinking. The single or twin 12" capacitive touchscreens on the dLive consoles feel instantly familiar, responding to every pinch, swipe, drag and drop exactly how you'd expect them to. Bespoke 'widget' areas can also be set up on the screens to keep track of scenes, meters, FX and other custom controls.

The screen is complemented by a set of rotary controls, allowing the creativity and immediacy of tactile control over key processing functions, working in harmony with the visual feedback displayed on the screen. The high-grip rotary knobs offer precision control, and feature RGB illumination, with colours mapped to functions for instant visual orientation.

## Transparent Workflow



The dLive layout is fully customisable, allowing the user to create a mixing interface that reflects their own mental map of the show, or for an installer to set up the surface to match the venue and the experience levels of the operators. Throughout the dLive journey our guiding aim has been to create fast and transparent workflows that allow the operator to

focus on the mix, not the mixer. Every input or mix can be assigned to any and every bank and / or layer, virtual scribble strips allow inputs and mixes to be clearly named and colour coded for at-a-glance navigation, and there are 19 assignable SoftKeys, plus 3 pages of 6 assignable rotaries (C2500 and C3500 only).

## Laptop & Tablet Control

**dLIVE**  
Director



dLive Director is a multi-platform editor and control software for dLive, allowing you to configure the system offline, check and edit Show files from guest engineers, and control the mix live using a laptop or touch tablet.

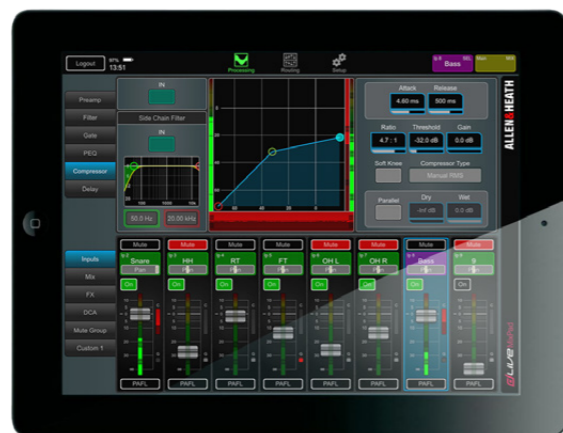
dLive Director has a touch-friendly interface, with resizable fader banks to suit different resolutions from pro tablets to large touch screens / all-in-ones.

A Touchscreen view replicates every aspect of the dLive Surface GUI for instant familiarity.

Compatible with Mac and Windows OS (including Windows Surface Pro), dLive Director offers the same great experience across different devices.

## Wireless Mixing From Your iPad

**dLIVE**  
MixPad



dLive MixPad is an engineer's mixing tool providing wireless mobile control for the dLive digital mixing system.

It gives you the freedom to walk the room or stage and control the sound right where it's needed. dLive MixPad and the dLive Surface

can work together to provide simultaneous control of independent functions, for example one engineer using the Surface to mix front-of-house sound, and another using the iPad to mix monitors on stage. Several iPads can be connected, each providing independent control.

## Surfaceless Mixing



The ultimate in efficiency for fly-in dates and space-conscious venues. With its brain in the MixRack, dLive opens up exciting possibilities for ultra-compact mixing systems that do away with a conventional control surface. Go fully fader-free and mix from a laptop or tablet, or add in IP8 remotes for hands-on control of the key mixes.

# Personal Mixing

dLive C Class offers a choice of hardware and glass screen personal mixing solutions, all aimed at empowering the performers and taking pressure off the engineer.

dLive is fully compatible with our ME-1 personal mixers. Each of the ME-1's 16 rubber keys can be assigned to a single source or Group from the dLive system, with all the convenience of pressing a single button no matter what you want to control – the main vocal mic, a stereo pair or the whole drumkit. Operation is intuitive and elegant, with simple controls, clear visual feedback and custom naming for instant familiarity.

dLive OneMix is a personal mixing app for dLive, allowing performers to take control of their own monitor mixes from their iPads. Multiple iPads may be set up by the Admin user to give each musician customised personal monitor control via Wi-Fi connection to dLive without the risk of affecting the other monitors or front of house mix. dLive OneMix can be configured to provide as much or as little control as needed.

dLive also has a unique solution for personal mixing for IEMS in the shape of the IP6 remote controller, which can be set up to control the Send levels, Pans and assignments of multiple channels to a specific dLive mix.



# Remote Controllers

IP6 and IP8 are next generation remote controllers for dLive, ideal for many install applications and greatly enhancing the system's flexibility in live sound. They interface with the dLive mixing system via standard TCP/IP Network connections and can be networked with other controllers, computers and third party devices using a standard Ethernet infrastructure. Controls and functions are programmed using a dLive Surface or dLive Director software for PC/Mac.



## IP6

IP6 is perfect for giving inexperienced operators safe, simple control over an installed dLive system.

- 6 Push 'n' Turn Rotary encoders
- 6x Layers
- PoE or external 12V PSU (supplied)
- Optional mic stand bracket available (AB8999)
- Optional headphone holder (AB8705)



## IP8

With its 8 motorised faders, IP8 provides additional hands-on control e.g. as a sidecar to a dLive surface, or in a surfaceless mixing system. It's also another great option for simplified control in an installation, such as controlling mics and music sources in a room.

- 8 Motorised faders
- 6x Layers
- PoE+ or external 12V PSU (supplied)
- Use freestanding or mount in a plinth, podium or furniture

# Audio Networking Hub

dLive is a networking hub, scaling up to hundreds of system inputs and outputs and catering for all major audio networking protocols and technologies. Each I/O Port provides 128 inputs and 128 outputs, all independently assigned. The timeline function allows any input to be

routed to any output offering true system matrix capability, with seamless format and sample rate conversion, and without impacting on channel count or mix resources.



# Option Cards

## fibreACE

A fibre optic solution for large scale events and long cable runs up to 500m.

- 128 I/O, 96kHz
- Dual redundancy
- Converter mode replaces the MixRack to Surface link with fibre optic
- Switchable Control Network Bridge

## superMADI

A swiss-army knife of broadcast connectivity. Multifunction to address the requirements of broadcast/recording feeds and OB vans.

- 128 I/O on coaxial BNC
- Up to 128 I/O on multimode/single mode SFP modules
- Switchable 48/96kHz sample rate and redundancy per link pair
- Choice of Smux or HighSpeed 96kHz mode

## gigaACE

A cost-effective and plug 'n play solution for digital split applications and point-to-point connections.

- 128 I/O, 96kHz
- Ultra-low transport latency – 5 samples (52 us)
- Dual redundancy
- Switchable Control Network Bridge

## Waves V3

An interface to the Waves SoundGrid networking platform, for plugin processing, multitrack recording and audio distribution.

- 128 I/O
- Switchable 48/96kHz sample rate
- Waves SG networking
- Multitrack recording and playback

## Dante, Ethersound + more

The GLD/iLive range of audio networking cards is fully compatible with dLive thanks to the M-DL-ADAPT adapter, offering a 64x64 48kHz interface to industry standard protocols including Dante and EtherSound.





# Features

## System

Distributed system with separate MixRack and Surface  
DX expansion racks for flexible I/O  
DEEP processing – powerful embedded plugins  
2 audio networking ports, 128 I/O each  
Compatible with ME personal mixing system

## 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 < 0.7ms

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  
64 Dyn8 dynamic EQ and multiband compression engines  
Active pad preamp design for extra transparency

## dLive Surfaces

Choice of 3 sizes (12, 20 or 24 faders)

Fully assignable layout – up to 144 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 (C2500, C3500 only)  
19 assignable SoftKeys  
Comprehensive multipoint metering

## Control

Networked wired or wireless control  
Director software for online or offline PC/Mac editing and control  
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