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's phenomenally powerful XCVI Core, DEEP processing suite and Harmony UI make the most sophisticated mixing challenges feel elegantly simple. From seasoned audio professionals to new recruits, dLive has been crafted to allow the operator to keep their focus on the live mixing experience, not on the mixer.

For professional touring, broadcast and prestige installations, dLive S Class offers ultimate robustness and routing capability, addressing the most complex and demanding scenarios.

dLive C Class presents the same processing core and sound performance in a compact, portable format, making it the smart choice for corporate AV, multi-purpose venues, houses of worship, theatres and regional rental companies.

With a thriving ecosystem of apps, software, remote controllers and more, dLive is fully equipped to become the centrepiece of your next show or project.
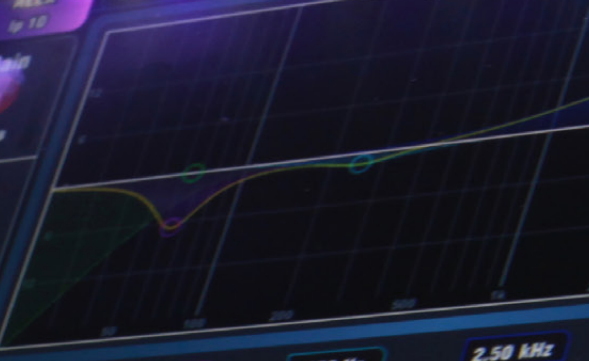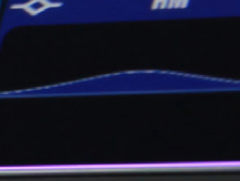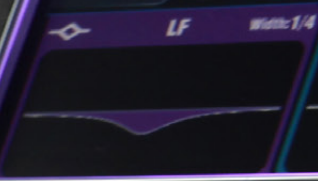
CDM32

- 32 mic/line inputs, 16 line outputs
- 160x64 XCVI Core
- 1x 128ch I/O Port

C1500

- 19" rack-mountable
- 12 faders, 72 fader strips
- 12" capacitive touchscreen
- 19 assignable SoftKeys
- 1x 128ch I/O Port

CDM48

- 48 mic/line inputs, 24 line outputs
- 160x64 XCVI Core
- 1x 128ch I/O Port

C2500

- 20 faders, 120 fader strips
- 12" capacitive touchscreen
- 19 assignable SoftKeys
- 1x 128ch I/O Port

dLive
C Class

CDM64

- 64 mic/line inputs, 32 line outputs
- 160x64 XCVI Core
- 1x 128ch I/O Port

C3500

- 24 faders, 144 fader strips
- Dual 12" capacitive touchscreens
- 19 assignable SoftKeys
- 1x 128ch I/O Port

S3000

- 20 faders, 120 fader strips
- 12" capacitive touchscreen
- 26 assignable SoftKeys
- 2x 128ch I/O Port
- Redundant, hot swappable power supply
- 3 Year warranty

DM32

- 32 mic/line inputs, 16 line outputs
- 160x64 XCVI Core
- 3x 128ch I/O Port
- Redundant, hot swappable power supply
- 3 Year warranty

DM48

- 48 mic/line inputs, 24 line outputs
- 160x64 XCVI Core
- 3x 128ch I/O Port
- Redundant, hot swappable power supply
- 3 Year warranty

S5000

- 28 faders, 168 fader strips
- Dual 12" capacitive touchscreens
- 26 assignable SoftKeys
- 2x 128ch I/O Port
- Redundant, hot swappable power supply
- 3 Year warranty

DM64

- 64 mic/line inputs, 32 line outputs
- 160x64 XCVI Core
- 3x 128ch I/O Port
- Redundant, hot swappable power supply
- 3 Year warranty

S7000

- 36 faders, 216 fader strips
- Dual 12" capacitive touchscreens
- 26 assignable SoftKeys
- 2x 128ch I/O Port
- Redundant, hot swappable power supply
- 3 Year warranty

DM0

The most compact dLive MixRack, DM0 is a mix engine for distributed audio scenarios, or for digital split applications such as Front of House and Monitors sharing the same inputs.

- Only 4U
- 160x64 XCVI Core
- 3x 128ch I/O Port
- Redundant power supply
- 3 Year warranty
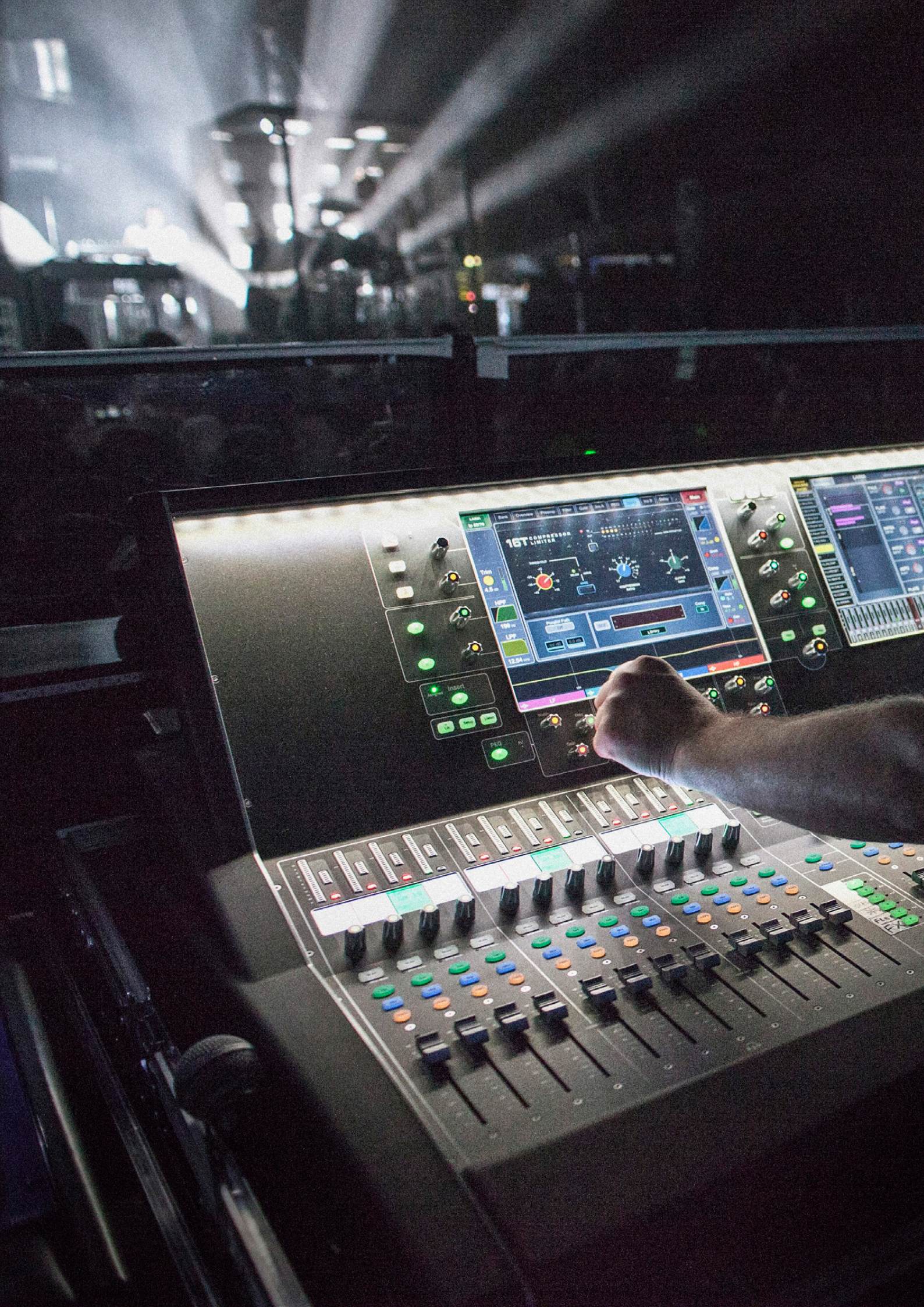
XCVI

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 160×64 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.
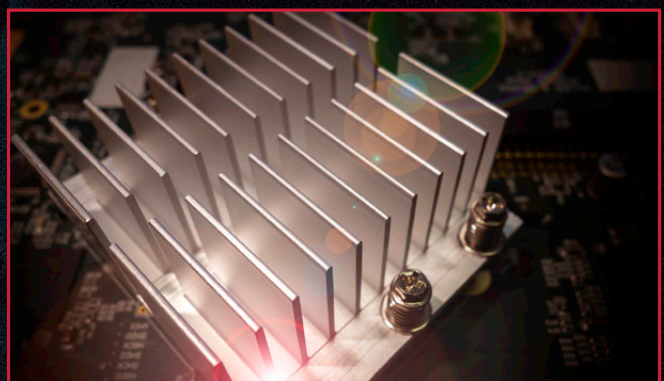
DEEP Processing

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.
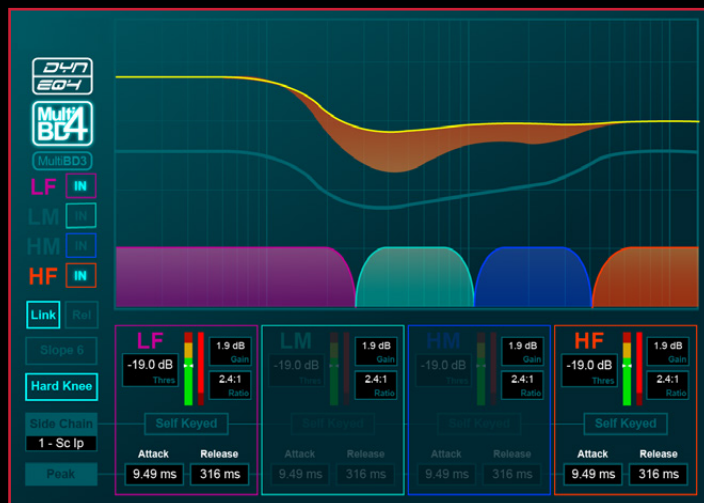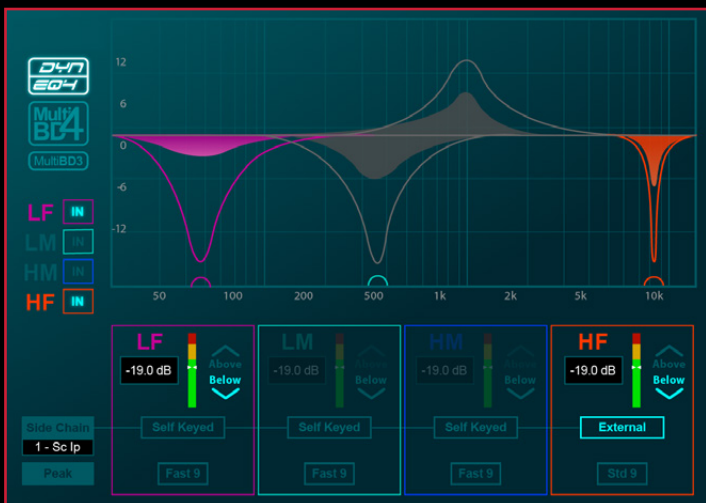
ECHO

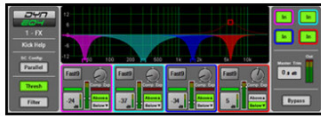BUCKET BRIGADE

STEREO TAP DELAY

DYNAMIC EQ
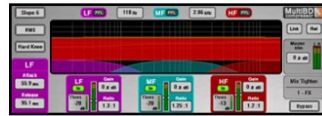
MULTIBD3 MULTIBAND
COMPRESSOR
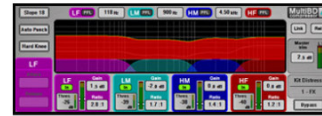
MULTIBD4 MULTIBAND
COMPRESSOR

TRANSIENT CONTROLLER

PITCHDOUBLER

VS1 VOCALSHIFT
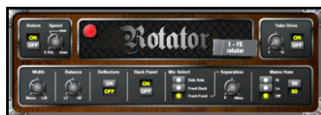
ROTATOR
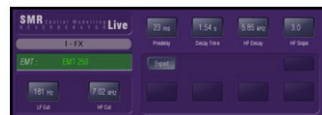
SMR LIVE

2 TAP DELAY

GATED VERB

ADT DOUBLER

CHORUS

ELECTRIC FLANGE

12 STAGE PHASER

SYMPHONIC CHORUS

HYPABASS

DE-ESSER

DIMENSION CHORUS

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 Surface 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
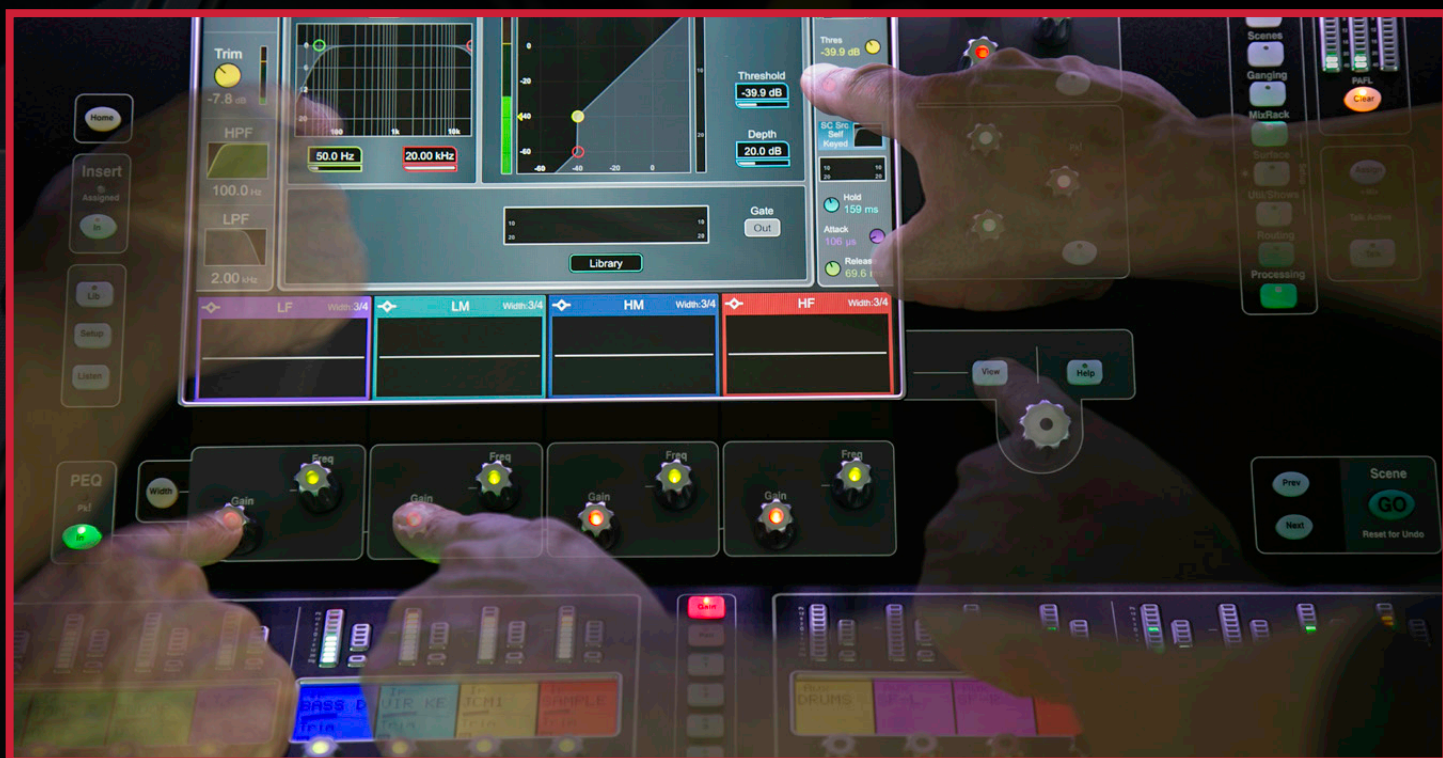
The dLive layout is fully customisable, allowing the user to create a mixing interface that reflects their own mental map of the show, or for an installer to set up the surface to match the venue and the experience levels of the operators. Throughout the dLive journey our guiding aim has been to create 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 many assignable SoftKeys, plus 3 pages of assignable rotaries.

IMAGINE IF THE MIXEF

dLive is a distributed, integrated, scalable and accessible audio mixing solution, designed to meet the complex needs of today's multi-purpose venues. From education facilities and houses of worship to conference centres and visitor attractions, dLive provides the tools to manage every aspect of the audio life of these venues, becoming part of the fabric of the building.

Distributed

dLive frees you to deploy audio wherever it's needed. The system is capable of providing dozens of audio points and hundreds of system inputs and outputs via a family of AudioRacks. These AudioRacks range from portable stageboxes to fixed format wall panels to fit a wide variety of applications. AudioRacks can be deployed in Star and Cascade topologies. Connections are Ethernet Layer 2, allowing up to 100m of CAT cable between each AudioRack, and can be converted to fibre optic.

Integrated

With up to five 128 channel I/O ports, support for all major industry standard protocols, GPIO interfaces and a comprehensive TCP/IP control protocol, dLive is the most integrated mixing system on the market. dLive is fully equipped to meet modern venues' demands for sophisticated audio networking and integration capabilities, including Dante integration, broadcast feeds, multitrack recording, fibre links, third party control and more.

Scalable

A dLive system can provide anything from 0 to 800+ total system inputs and outputs, with over half a million crosspoints. Add support for up to 96 remote controllers, and you can see why dLive is the solution for any venue; from single rooms to the largest and most demanding of spaces.

Accessible

A dLive system is designed around the user, not the technology. Configurable IP remote controllers give tailored access to essential elements such as volume control, music source selection or preset recall. Director software and iPad apps make it easy to access settings on the move. With an extensive set of user permissions for up to 10 user profiles, access can be restricted to protect critical settings and make life easier for non-technical operators.

Versatile

dLive is uniquely capable of handling every aspect of a venue's audio world, from simple background audio or boardroom tasks to a full scale live music or theatre show.

Unrivalled

dLive is not just another sound management system. Built on our acclaimed XCVI 96kHz FPGA processing and boasting a system latency of <0.7ms, dLive's audio quality has no equal in its class.

IP Controllers

GPIO

DX Expanders

dLive

TCP/IP Control

Software & Apps

Audio Networking

Network I/O

Now with AES67

Dante™
SPOKEN HERE

Software & apps

Remote control

Fixed DX I/O

MixRack engine

Monitoring

Portable DX I/O

GPIO

DX Hub

Surfaces

Laptop & Tablet Control

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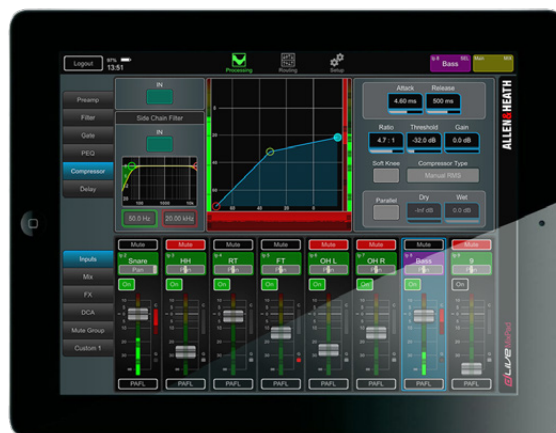
dLive MixPad is an engineer's mixing tool providing wireless mobile control for the dLive digital mixing system.

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 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

The IP series of next generation remote controllers are ideal for many install applications and greatly enhance the dLive 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.

IP1

IP1 is a simple yet powerful programmable wallplate, giving the non-technical user convenient, easy control.

- Music source selection, level control, or preset recall
- Push 'n' turn rotary + LCD display
- TCP/IP, PoE compliant
- Up to 16 + 16 on a dLive system
- US (Decora) or EU/UK (Honeywell/MK) variants, black or white

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 tieline 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.

dLive S Class MixRack

dLive S Class Surface

dLive C Class MixRack

dLive C Class Surface

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

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

superMADI

A swiss-army knife of broadcast connectivity. Multiformat to address requirements of broadcast/recording feeds + 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

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

AES3

- Choice of 4in / 6out, 0in / 10out, 6in / 4out and 2in / 8out versions
- Switchable sample rate (96kHz, 88.2kHz, 48kHz and 44.1kHz)
- Input SRC 32kHz to 192kHz
- Option to sync from first AES input

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
Up to 5 audio networking ports, 128 I/O each
Compatible with ME personal mixing system

dLive MixRacks

Choice of 7 models from 0 to 64 mic preamps

- 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
- Dual redundant audio connections throughout (S Class)
- Redundant hot swappable power supplies (S Class)

dLive Surfaces

Choice of 6 models, from 12 to 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
- Assignable SoftKeys (19 on C Class, 26 on S Class)
- 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

Expanders

DX168

The DX168 is a rugged stagebox format expander for adding remote I/O to a dLive system. Weighing in at just 4.8kg and featuring a sturdy carry handle and rubber bumpers, DX168 offers the portability and convenience needed in rental, education, houses of worship and many other environments.

• 16 dLive mic preamps, 4 line outputs
• Cascade mode allows daisy-chaining of 2 DX168 Expanders for additional I/O
• Redundant DX connection to dLive S Class hardware
• Optional 19-inch rack mount kit available
• Connects to DX Ports, DX Link card or DX Hub

DX32

The DX32 Expander adds remote, modular I/O to a dLive system. It provides 4x 8 channel slots to fit a selection of analogue or digital I/O. Multiple Expanders can be connected to the MixRack, and a further DX32 can be connected to a dLive system.

• 4x 8ch modular design
• Redundant, hot swappable power supply
• Dual redundant Cat5 link to Surface or MixRack
• Rack-mounted or shelf / floor operation
• 3 Year warranty

DX164-W

The DX164-W is a wall box format expander for adding remote I/O in fixed installations.

• 16 dLive mic preamps, 4 line outputs
• Cascade or redundant mode
• Connects to DX Ports, DX Link card or DX Hub

dLIVE
C3500

ALLEN&HEATH
WWW.ALLEN-HEATH.COM/DLIVE