

# dLive V2.0 Description

## Introduction

dLive V2.0 ushers in a new era of creative live processing and FX, and advanced workflow features, redefining what is possible in the console.

The **RackUltra FX Suite**, powered by the new **RackUltra FX Card**, brings together a collection of ultra-modern algorithms encompassing pitch correction and shifting, studio-grade reverbs, saturation, distortion, and vocal harmonisers.

## Features

### RackUltra FX Suite:

- Reverbs
  - Spaces
  - Plate Designer
- Pitch
  - Vocal Tuner
  - Vocal Gridder
  - Vocal Shifter
- Harmonisers
  - Quad Voice Harmoniser
  - Dual Auto Key Harmoniser
  - MIDI Harmoniser
- Distortion
  - Saturation
  - Amp+Cab Distortion

### RackUltra FX Card:

- 8 RackUltra FX Slots
- PEQ and Dynamics on Input and Output of each slot
- 8 Stereo Sends and Returns

### Firmware V2.0:

- Cue List Updates
- Actions
- Director Scene Preview
- Channel Library Updates
- CSV Bulk Import/Export
- Dyn8 Ganging

## RackUltra FX Suite

### Reverbs

Two new reverbs utilise the power of the RackUltra FX card to bring previously unimaginable realism to in-console reverberation.

**Spaces Reverb Designer** is an algorithmic reverb dedicated to recreating physical spaces with the stunning realism usually associated with high-end hardware units. *Spaces* lets the engineer design their own space, from short ambiences and small rooms through to chambers, halls and – with over 60 seconds of decay – well beyond.

**Plate Reverb Designer** is dedicated to replicating the characterful build-up and tail of a plate reverb, with the ability to choose from several plate materials to suit the source material.

## Vocal Processing: Pitch

For the first time ever on a professional live console, studio quality pitch correction, shifting, and gridding can be achieved without the need for external software or hardware.

**Vocal Tuner** is designed for natural sounding pitch correction, with minimal audible artefacts, suitable for all genres of music, and any situation where the performer may need a gentle helping hand.

**Vocal Gridder** produces faster, less natural-sounding pitch correction - as heard on countless hip-hop, pop, trap, and modern country productions - where notes “snap” to the target pitch almost instantly.

Both *Vocal Tuner* and *Vocal Gridder* can be set to follow a global key or a local key with options for major, minor and chromatic scales, and scales can be customised using the note editor.

**Vocal Shifter** radically alters vocals with a formant control and the ability to shift the vocal up or down by up to 12 semitones. Vocal Shifter can produce anything from pitch doubling to the unreal robotic and ageing effects heard in EDM and other electronic genres.

## Vocal Processing: Harmonisers

dLive's vocal processing is further enhanced by the addition of three harmonisers.

**Quad Voice Harmoniser** generates up to 4 voices of natural-sounding vocal harmony, specified in musical intervals for simplicity, which follow either the global key, a local key, or a MIDI input.

**Dual Auto Key Harmoniser** adds up to 2 voices of harmony, utilising the same core engine as the *Quad-Voice Harmoniser*, but with the addition of the intelligent Auto-Key mode, where a polyphonic source such as guitar or piano can be used to automatically determine the key of the performance in real-time.

**MIDI Harmoniser** creates harmonies based on an external MIDI input, from a DAW or played live, and includes a monophonic mode with a glide parameter to provide portamento between notes, plus a polyphonic mode for up to 4 voices of controllable harmony.

## Distortion

A pair of distortion effects complete the V2.0 RackUltra FX collection.

**Saturation** delivers 5 flavours of analogue style saturation, covering everything from smooth and subtle tape drive through to germanium and valve crunch, with simple-to-use tone shaping options including Tilt EQ and LPF/HPF controls. Saturation can be used on individual sources or busses to warm them up, add a dirty edge, or carve them out for a thinner, narrowband effect.

**Amp+Cab Distortion** puts the harmonically complex characteristics of a guitar amplifier and speaker cabinet right inside your dLive with classic guitar and bass amp models, an iconic distortion pedal, and numerous cabinet emulations. The models feature a 4-band EQ and

gain control, plus a thicken control to add subtle stereo width. Any cabinet can be used with any amp to maximise sonic possibilities, plus cab bypass for a more aggressive sound.

## RackUltra FX Card

The **RackUltra FX Card**, fitted as standard to all new MixRacks and available as an upgrade for existing MixRacks, adds 8 RackUltra FX engines – including dedicated stereo send and return channels plus PEQ and dynamics on each FX engines input and output - to any dLive system without consuming any of the platform's 64 busses, 128 channels, or 16 RackExtra FX slots.

Combining Allen & Heath's renowned FPGA technology with ARM processing, the card opens the platform up to the next generation of onboard processing and effects.

## Powerful Workflow Improvements

It's not just FX. dLive V2.0 also gives engineers the tools to supercharge their workflow and improve the mixing experience.

The **Cue List** system has been overhauled to simplify cue list creation via manual and auto renumbering options and custom MIDI recall, designed for fast-moving performances, heavily automated shows, and theatre applications.

The powerful new **Actions** feature makes complex automation easy for the engineer, enabling functions across multiple channels, such as routing assignments and levels, ABCD inputs, processing in/out, strip layout, and insert in/out, to be triggered via a single SoftKey press.

The **Channel Library** has been extended to include Mix sends, meaning channels can now be saved with all sends, processing and names data included. Mix channels can now also be saved in a library for instant recall.