



Contents [[hide](#)]

- [1 ALLEN and HEATH DLIVE-DM0U MixRack Audio Mixer](#)
- [2 Getting Started Guide](#)
- [3 Safety instructions](#)
- [4 General precautions](#)
- [5 Packed items](#)
- [6 Introduction](#)
- [7 Installing the MixRack](#)
- [8 Rear Panel](#)
- [9 Front Panel](#)
- [10 Connect and power up](#)
- [11 Dimensions](#)
- [12 Technical specs](#)
- [13 Limited Three Years Manufacturer's Warranty](#)
- [14 FAQ](#)
- [15 Documents / Resources](#)
 - [15.1 References](#)

ALLEN & HEATH

ALLEN and HEATH DLIVE-DM0U MixRack Audio Mixer



Getting Started Guide

i Before starting please check www.allen-heath.com for the latest dLive firmware and documentation.

IMPORTANT – Read before starting

Safety instructions

Before starting, read the Important Safety Instructions printed on the sheet supplied with the equipment. For your own safety and that of the operator, technical crew and performers, follow all instructions and heed all warnings printed on the sheet and on the equipment panels.

System operating firmware

The function of the dLive MixRack is determined by the firmware (operating software) that runs it. Firmware is updated regularly as new features are added and improvements made.

Check www.allen-heath.com for the latest version of dLive firmware.

Software licence agreement

By using this Allen & Heath product and the software within it you agree to be bound by the terms of the relevant End User Licence Agreement (EULA), a copy of which can be found at www.allen-heath.com/legal. You agree to be bound by the terms of the EULA by installing, copying, or using the software.

Further information

Please refer to the Allen & Heath website for further information, knowledgebase and technical support. For more information on dLive setup and mixing functions please refer to the dLive Firmware Reference Guide available for download at www.allen-heath.com. Check for the latest version of this Getting Started Guide.

You can also join our Allen & Heath Digital Community to share knowledge and information with other dLive users.

General precautions

- Protect the equipment from damage through liquid or dust contamination. Cover the MixRack when it is not being used for a long period.
- If the equipment has been stored in sub-zero temperatures allow time for it to reach normal operating temperature before use at the venue. Recommended operating temperature is 0 to 35 degrees Celsius.
- Avoid using the equipment in extreme heat and direct sunlight. Make sure the ventilation slots are not obstructed and that there is adequate air movement around the equipment.
- Clean the equipment with a soft brush and dry lint-free cloth. Do not use chemicals, abrasives or solvents.
- It is recommended that servicing is carried out only by an authorised Allen & Heath agent. Contact details for your local distributor can be found on the Allen & Heath website. Allen & Heath do not accept liability for damage caused by maintenance, repair or modification by unauthorised personnel.

Register your product

Register your product online at www.allen-heath.com/register.

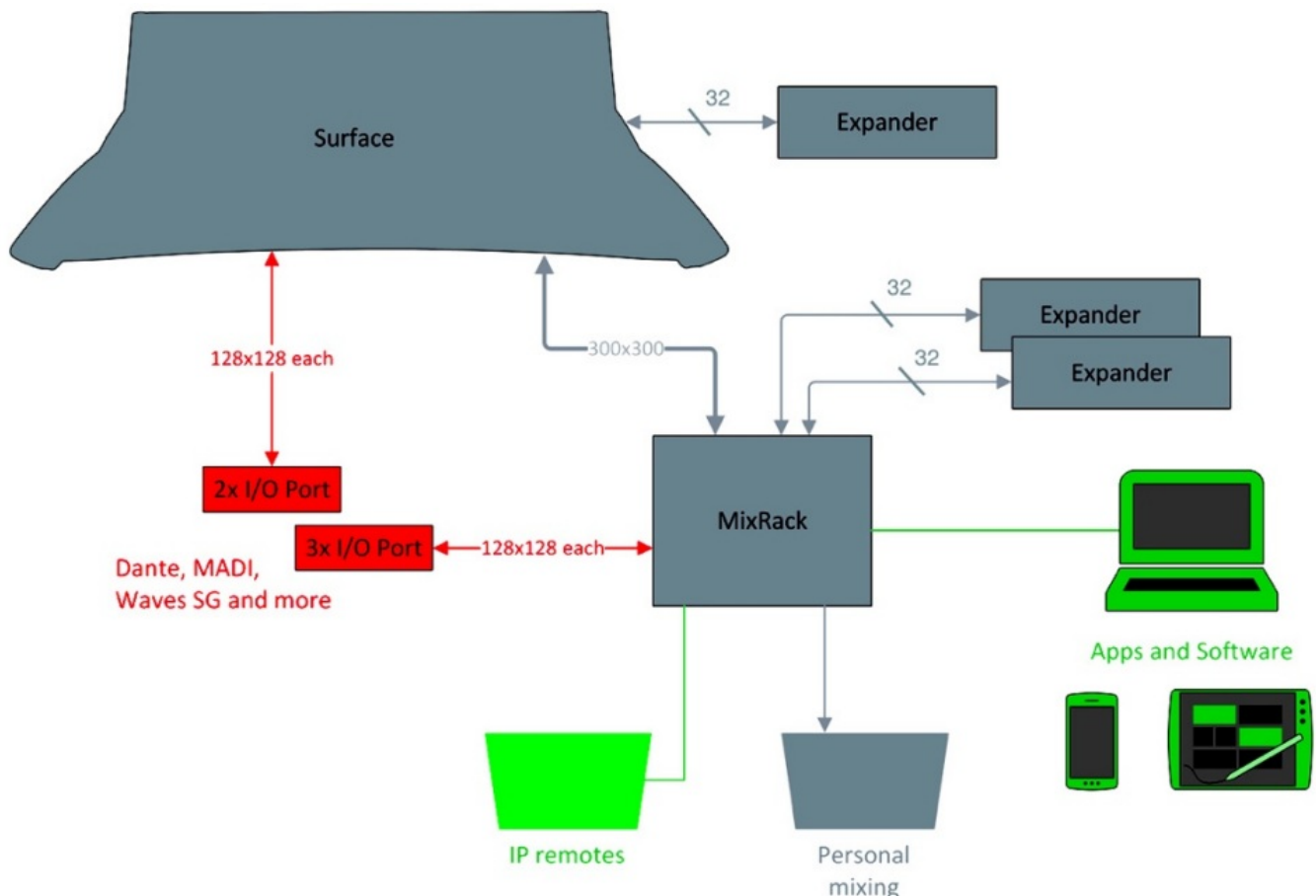
Packed items

Check you have received the following:

- DM0U MixRack
- Getting Started Guide AP10972
- Safety Sheet
- IEC mains lead

Introduction

dLive is a distributed digital mixing system providing a uniquely flexible solution for any live sound application. It separates the mix engine from the control surface, putting the audio and processing where it is needed, and offering a host of control and audio networking possibilities. Refer to the Allen & Heath website to find out more about dLive. The MixRack is the heart of any dLive system. It houses the XCVI processing core complete with audio I/O, control and audio networking ports. It is typically connected to a dLive Surface, but can also be controlled at the same time as or even without a Surface using a laptop or iPad, Allen & Heath IP remotes or third party controllers via TCP/IP. The system can be expanded by adding DX, GX and DT Expander Racks, and is compatible with the ME personal mixing system.



dLive MixRacks

There are different sizes of dLive MixRack available. All feature the same mix engine and differ only in the number of analogue I/O. All models can work with the full 128 channels by adding DX expanders or patching digital sources.

dLive MixRack features at a glance:

- XCVI 160×64 FPGA core
- 96kHz sample rate, 96bit accumulator
- Class leading, ultra-low latency 0.7ms
- 128 Input Channels with full processing
- 64 Mix Outputs with full processing
- DEEP processing embedded channel plugins
- Configurable 64 bus architecture (group, FX, aux, matrix, mains)
- LR, LCR and up to 5.1 mains mode
- 16 RackFX with dedicated stereo returns
- 8 RackUltra FX with dedicated stereo sends and returns.
- Multiple PFLs
- 16 DCAs
- Built-in signal generator, RTA and spectrogram
- Dual redundant, hot swappable power supply
- Flush front panel with ultra quiet fan
- Reversible rack ears design

Installing the MixRack

Free standing

The DM0U MixRack can be operated as a freestanding unit for shelf or floor operation. Check that its plastic feet are fitted. Ensure adequate air flow around the unit. It must not be covered in any way. Always stand the unit on a firm flat surface away from any soft furnishings or carpet.

Rack mounting and flight casing

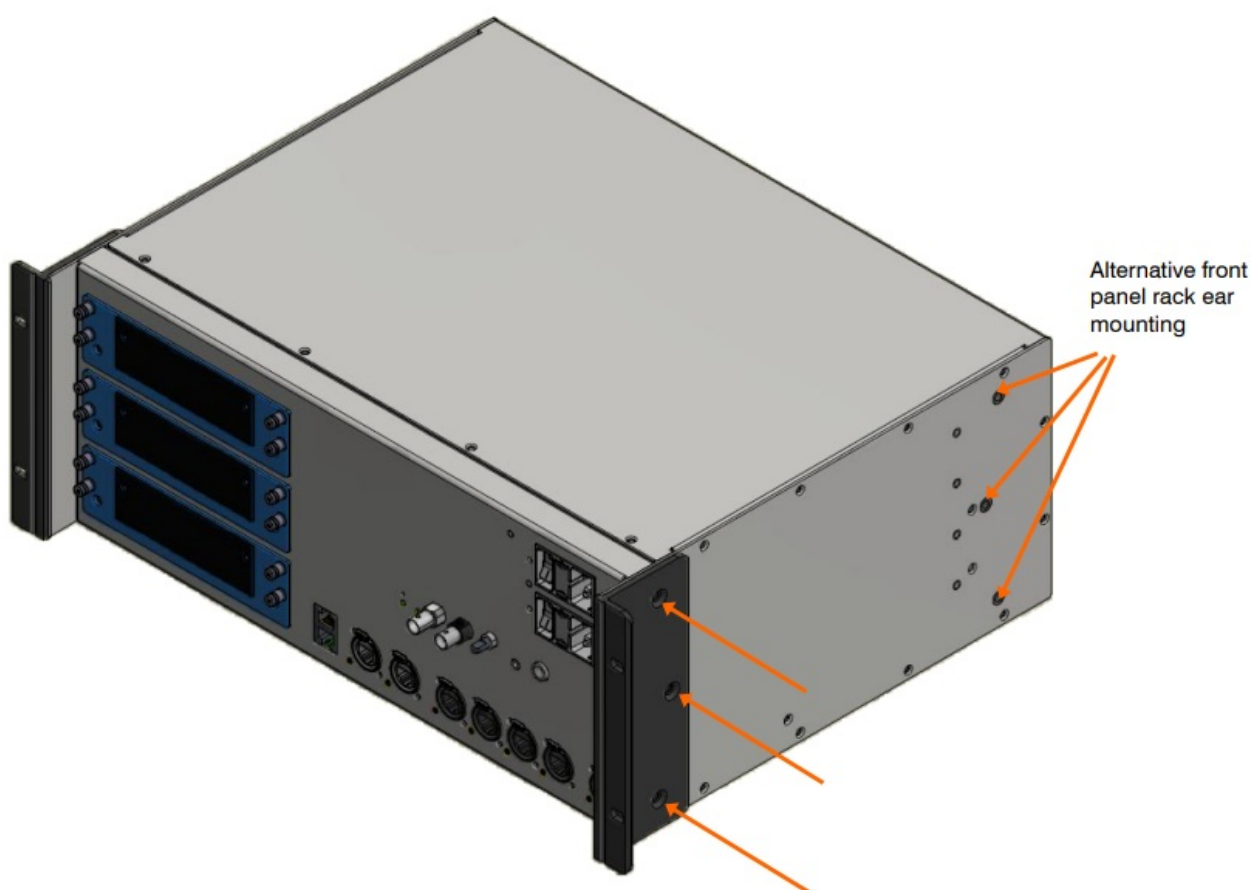
The DM0U MixRack is designed as a 19 inch rack mount unit and occupies 4U of rack space. The plastic feet may need to be removed before rack mounting; retain them for future use.

For rental, touring and other portable use, we recommend that you use a professional grade flight case with shock mounted internal rack frame.

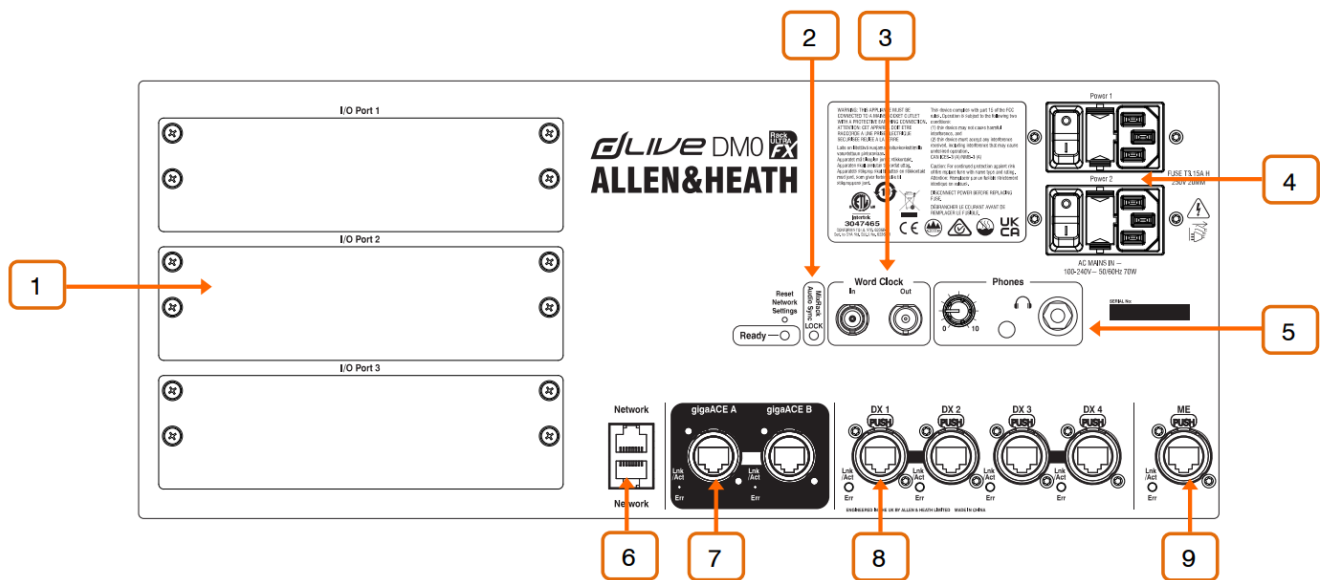
Ensure natural convection of airflow around the unit by allowing good ventilation below, in front of and behind the unit. Rack equipment known to produce a significant amount of heat should not be mounted directly below the unit. Forced convection by means of a rack mounted fan-tray may be desirable in situations where space is restricted and the ambient air temperature is high.

Rack ears

The rack ears can be mounted facing either the front or rear panel to suit the application. They are secured to the sides of the MixRack with 3 screws each as indicated below. Remove these screws using a Pozidriv screwdriver to remove or reposition the rack ears.

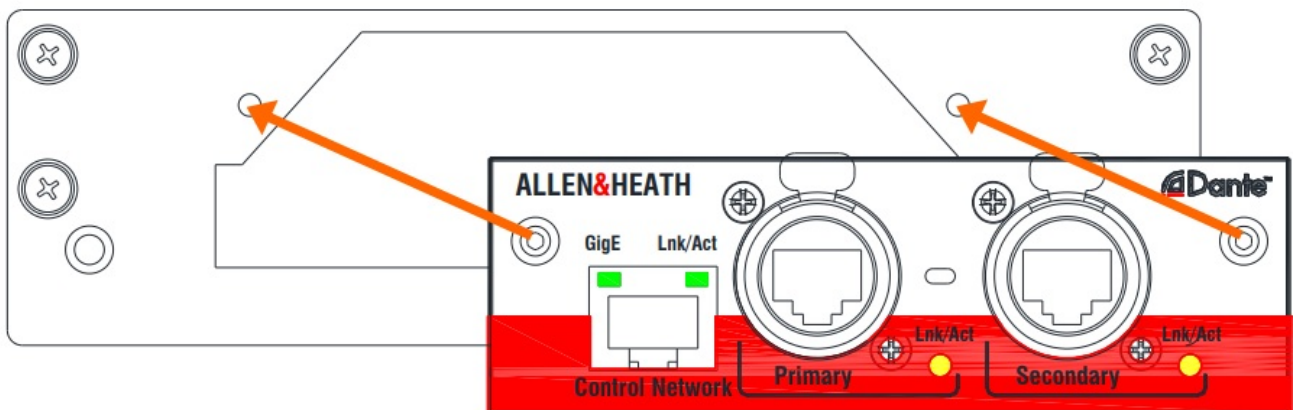


Rear Panel



1. I/O Ports – 3x audio interface ports 128×128 channels each, independently assigned. Fit one of the option cards available for system expansion, digital mic splitting, recording or distributed audio networking. Refer to www.allen-heath.com for a list of available option cards.

iLive / GLD option cards (M-Dante, M-Waves, M-ES-V2, M-ACE, M-MADI) can be used with dLive when fitted with the M-DL-ADAPT 'letter-box' adapter. This provides a 64×64 48kHz interface with built-in Sample Rate Conversion.



Use the I/O screen to patch signals from or to the I/O Ports.

2. **Audio** Sync Lock – Indicates that the audio is sync locked to a valid clock source. If this does not light up then check that the correct clock source is selected in the MixRack / Audio / Audio Sync screen.
3. Word Clock I/O – BNC connectors for syncing from an external audio clock or providing a clock to other devices. Use the MixRack / Audio / Audio Sync screen to select the clock source.
4. Mains – Redundant power supplies with independent IEC sockets, On/Off rocker switches and fuses.

Heed the safety warnings printed on the panel.

A plastic P-clip cable clamp is provided to secure the mains cable. Slot the cable in or lock it in place using a star Torx T20 screwdriver to refit the clamp around the cable.

5. Phones – Standard 1/4” jack socket and level control for the built-in headphone amplifier. The output follows the PAFL selection.
6. Network –2x RJ45 Gigabit Ethernet ports. Connect a laptop or a wireless router to use with dLive Editor or iOS apps. All devices on the network must have compatible IP addresses.

A recessed switch lets you reset the network settings to factory default. To reset, turn the MixRack off, insert a pointed object to press and hold the switch whilst turning the MixRack back on. Hold the switch in for at least 30 seconds.

7. gigaACE link – MixRack to Surface link over Gigabit Ethernet (IEEE 802.3 Layer 2 compliant). A single Cat5e (or higher) cable carries bidirectional 96kHz audio and control. Use two cables for redundancy – the system will seamlessly switch cable in case of failures, without any audio dropout.
8. DX links – Dual redundant EtherCon ports for connection of up to 4 DX expanders over Fast Ethernet (IEEE 802.3 Layer 2 compliant). A single Cat5e (or higher) cable carries 32×32 channels of 96kHz audio and control. For more information please see “DX & GX System Guide” via allen-heath.com.

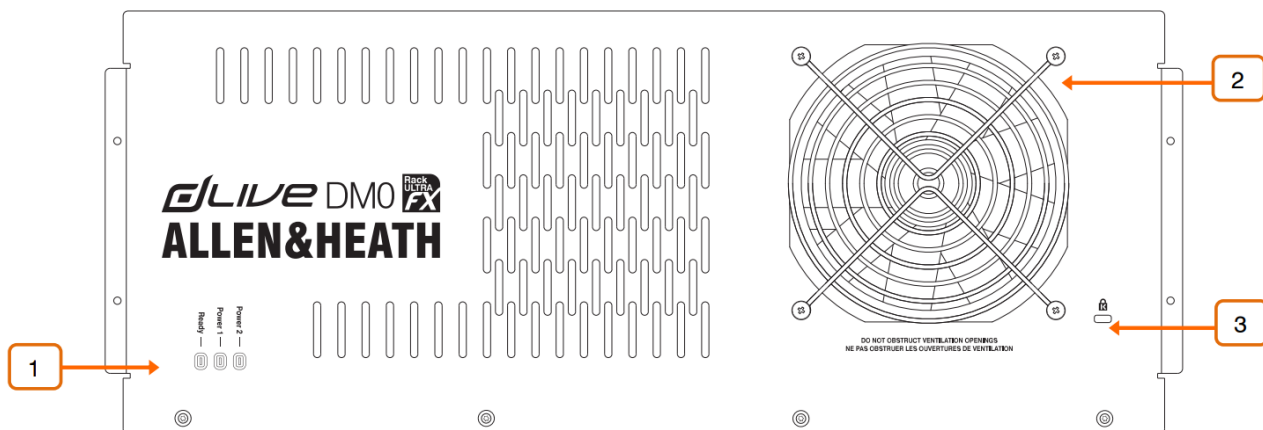
Use the I/O screen to patch signals from or to the DX expanders.

9. ME – Dedicated EtherCon port for the Allen & Heath ME personal mixing system. A single Cat5e (or higher) carries 40 channels of 48kHz audio, channel names and stereo links. Connect a ME-1 mixer for daisy chaining or ME-U hub for power and audio distribution.

Use the I/O screen to patch signals to the ME system.

Front Panel

1. Status indicators – Power ON indicators for the 2 power supplies. The Ready indicator lights up when the output sockets are ready to pass audio after power up.
2. Fan – Ultra-quiet fan. Make sure the ventilation opening is not obstructed.
3. Kensington Lock – A slot for fitting standard Kensington anti-theft security devices.

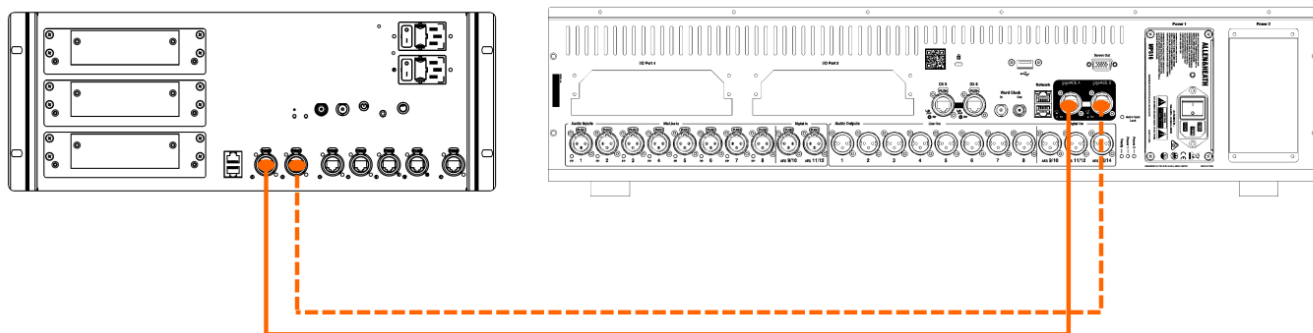


Connect and power up

Switch on the MixRack. It takes around 15s for the mix engine to start passing audio. You should hear the relays click as they connect the outputs once the boot-up is completed. The Ready indicator on the front panel will light up at this point.

Surface connection

Plug a touring grade CATe (or higher specification) cable up to 100m long between the dLive Surface and MixRack gigaACE ports. Use two cables for redundancy if required. Refer to www.allen-heath.com for cable requirements, recommendations, and a list of CAT5e/CAT6 cables available to order.

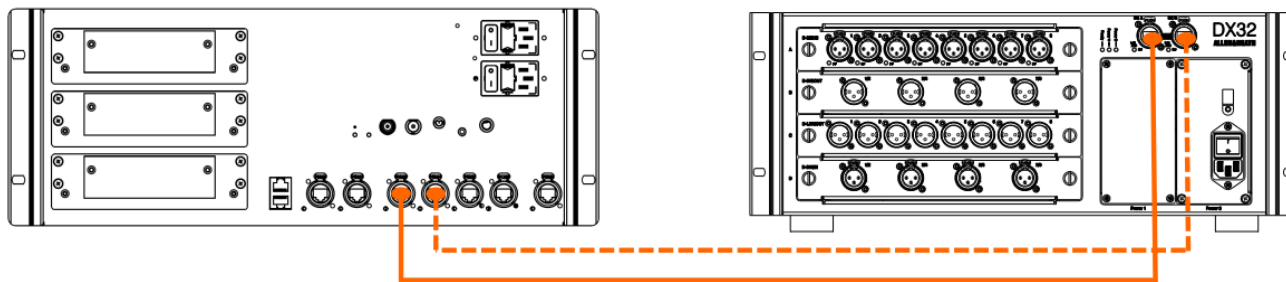


Switch on the Surface. The gigaACE Lnk/Err indicators flash at a steady rate when the link is established. The red error indicator lights if a communication error is detected. Check that the cables are correctly plugged in and are not faulty. It takes around 30s for the Surface to take control and the touchscreen to become responsive.

Expander connection

Plug a touring grade CATSe (or higher specification) cable up to 100m long between the DX Expander and MixRack DX ports. Use two cables for redundancy if required. (Refer to www.allen-heath.com for cable requirements, recommendations, and a list of CAT

cables available to order.

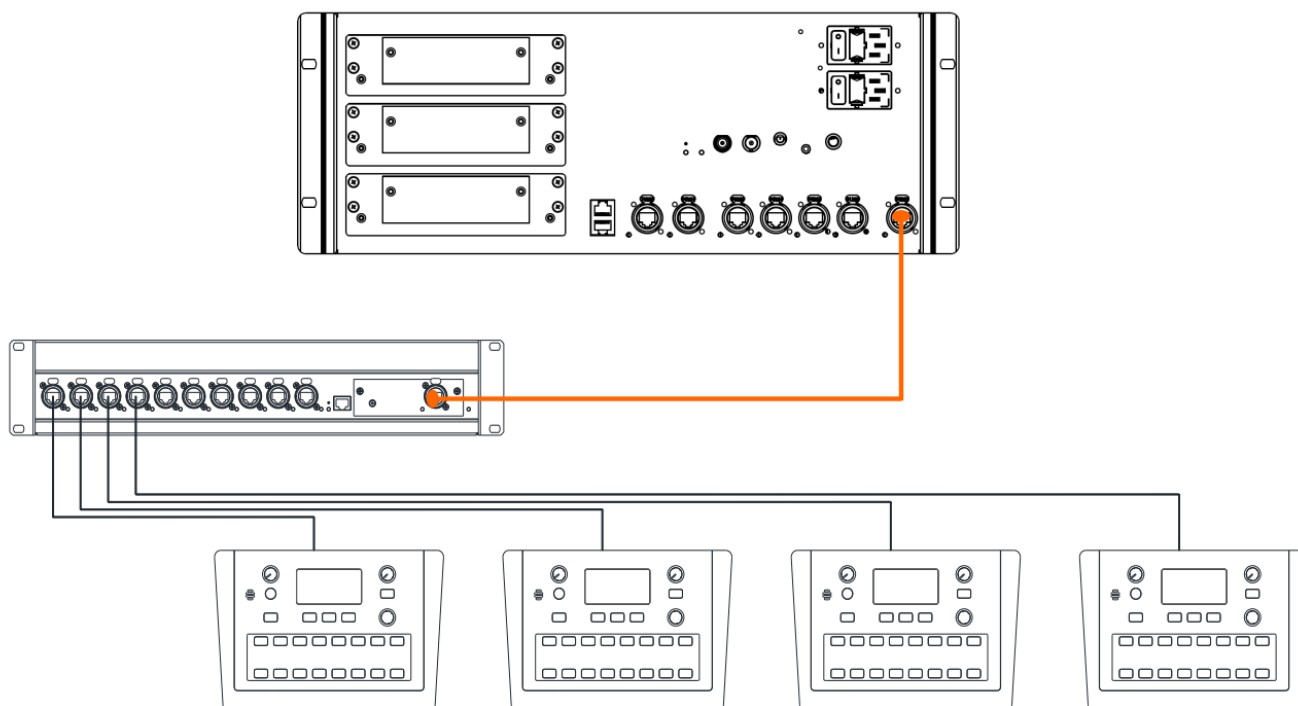


Switch on the DX Expander. The DX port Lnk/Err indicators flash at a steady rate when the link is established. The red error indicator lights if a communication error is detected. Check that the cables are correctly plugged in and are not faulty.

ME system connection

Plug a touring grade CAT5e (or higher specification) cable up to 100m long between the MixRack ME port and the ME-1 or ME-U.

Refer to www.allen-heath.com for cable requirements, recommendations, and a list of CAT5 cables available to order.



Connect a laptop or wireless router

Connect a laptop, router or access point to either of the Network ports to use with dLive

Editor or iOS apps. Read the Release Notes and Help Files accompanying the software or apps for further information.

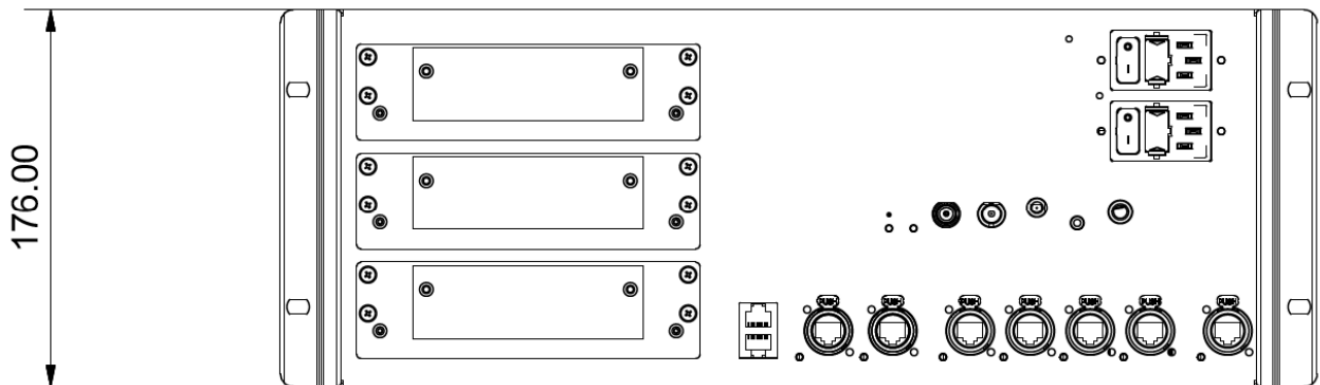
dLive communicates over TCP/IP. All devices on the network including the MixRack and Surface must have compatible IP addresses. Factory defaults are:

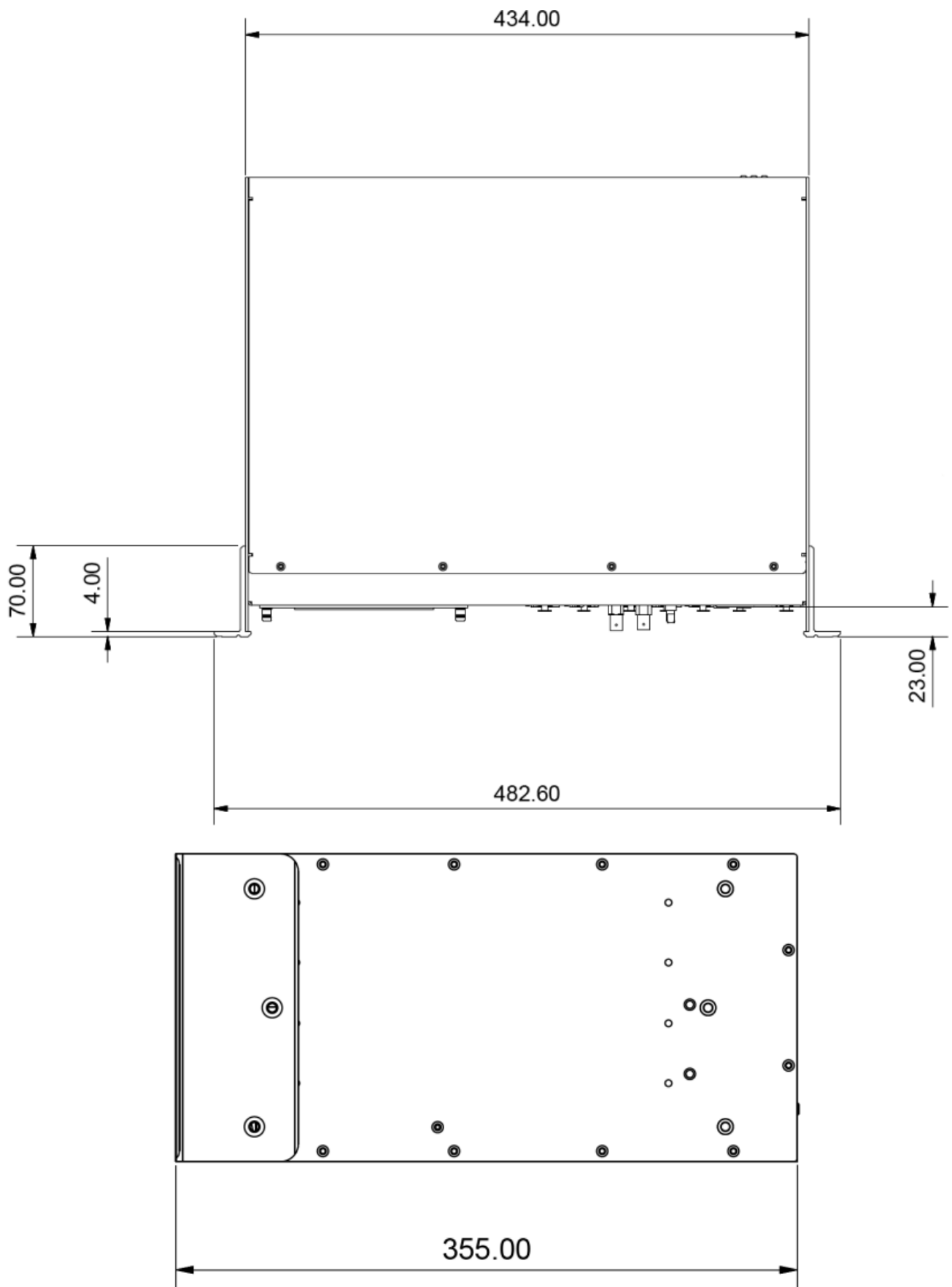
- MixRack 192.168.1.70
- Surface 192.168.1.71
- Subnet Mask 255.255.255.0
- Gateway 192.168.1.254

For direct, wired laptop connections, set your laptop to a static, compatible IP address, for example 192.168.1.10.

For wireless connections, set your router / access point to a compatible IP address, for example 192.168.1.254, and its DHCP range to a compatible range of addresses, for example 192.168.1.100 to 192.168.1.200. Set any wireless laptop or mobile device to DHCP / 'obtain an IP address automatically'.

Dimensions





Technical specs

System

- dBFS Alignment +18dBu = 0dBFS

- Meter Calibration 0dB meter = -18dBFS
- Meter Peak indication -3dBFS
- Sampling Rate 96kHz +/- 20 PPM
- ADC 24-bit Delta-Sigma
- DAC 24-bit Delta-Sigma
- Latency + 5 samples, Surface to Mixrack (GigaACE hop)
- + 8 samples, DX32 to Mixrack (DX hop)
- Operating Temperature Range 0°C to 35°C (32°F to 95°F)
- Mains Power 100-240V AC, 47-63Hz, 90W max (per PSU)

Dimensions and Weights

- Width x Depth x Height x Weight
- DM0U 482.6 x 355 x 176 mm (19" x 14" x 6.9") x 12.5kg (27.6lbs)

Boxed

- DM0U 600 x 480 x 330 mm (23.7" x 19" x 13") x 15.3kg (33.7lbs)

Limited Three Years Manufacturer's Warranty

Allen & Heath warrants the Allen & Heath -branded hardware product and accessories contained in the original packaging ("Allen & Heath Product") against defects in materials and workmanship when used in accordance with Allen & Heath's user manuals, technical specifications and other Allen & Heath product published guidelines for a period of THREE (3) YEARS from the date of original purchase by the end-user purchaser ("Warranty Period").

This warranty does not apply to any non-Allen & Heath branded hardware products or any software, even if packaged or sold with Allen & Heath hardware.

Please refer to the licensing agreement accompanying the software for details of your rights with respect to the use of software/firmware ("EULA").

Details of the EULA, warranty policy and other useful information can be found on the Allen & Heath website: www.allen-heath.com/legal.

Repair or replacement under the terms of the warranty does not provide right to extension or renewal of the warranty period. Repair or direct replacement of the product

under the terms of this warranty may be fulfilled with functionally equivalent service exchange units.

This warranty is not transferable. This warranty will be the purchaser's sole and exclusive remedy and neither Allen & Heath nor its approved service centres shall be liable for any incidental or consequential damages or breach of any express or implied warranty of this product.

Conditions Of Warranty

The equipment has not been subject to misuse either intended or accidental, neglect, or alteration other than as described in the User Guide or Service Manual, or approved by Allen & Heath. The warranty does not cover fader wear and tear.

Any necessary adjustment, alteration or repair has been carried out by an authorised Allen & Heath distributor or agent.

The defective unit is to be returned carriage prepaid to the place of purchase, an authorised Allen & Heath distributor or agent with proof of purchase. Please discuss this with the distributor or the agent before shipping. Units returned should be packed in the original carton to avoid transit damage.

DISCLAIMER: Allen & Heath shall not be liable for the loss of any saved/stored data in products that are either repaired or replaced.

Check with your Allen & Heath distributor or agent for any additional warranty information which may apply. If further assistance is required please contact Allen & Heath Ltd.

dLive DM0U MixRack Getting Started Guide Issue 3

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ALLEN&HEATH

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<http://www.allen-heath.com>

FAQ

Q: What should I do if I need further assistance?

A: Contact your Allen & Heath distributor or visit the Allen & Heath website for support.

Documents / Resources

	ALLEN and HEATH DLIVE-DM0U MixRack Audio Mixer [pdf] User Guide DLIVE-DM0U MixRack Audio Mixer, DLIVE-DM0U, MixRack Audio Mixer, Audio Mixer
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References

- [& Allen & Heath • Heard Everywhere](#)
- [🔗 heath.com domain name may be for sale](#)
- [& Allen & Heath • Heard Everywhere](#)
- [& One moment, please...](#)
- [& One moment, please...](#)
- [& Register a Product • Allen & Heath](#)
- [User Manual](#)

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 Allen and Heath, Audio Mixer, DLIVE-DM0U, DLIVE-DM0U MixRack Audio Mixer, MixRack Audio Mixer

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