Manuals+ — User Manuals Simplified.

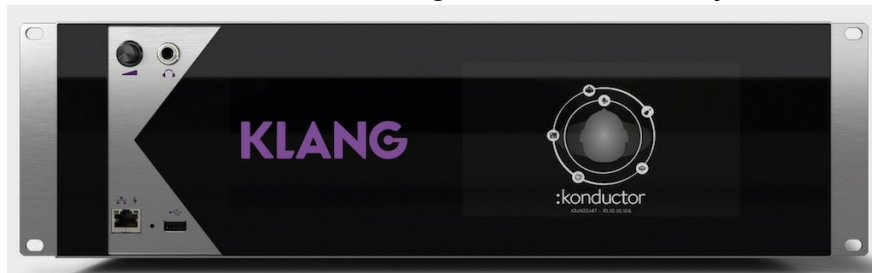# KLANG konductor Mix Processing with Minimal Latency User Guide

KLANG konductor Mix Processing with Minimal Latency User Guide

Contents

CONNECTIONS

1. Switch power on. Connect a computer directly or via a switch to CONTROL A

ⓘ Network activity LEDs will start to blink.

2. Connect a Wireless AP or DiGiCo SD/Q to CONTROL B.

⚠ konductor uses a DHCP client and will automatically configure its IP address. Without a DHCP server reply a link-local

IP address (169.254.x.y) will be self-assigned. An additional fixed

IP address can be configured via KLANG:app (e.g. on the front display, requires USB keyboard)

>CONFIG>INFO>Set>Set fixed IP.

⚠ As per default ALL network ports (CONTROL A/B, LINK, Front) are connected to the same internal switch, and must therefore not be connected externally to the same network/ switch to prevent network loops.

KLANG APP

1. Download & Launch **KLANG:app www.KLANG.com/app**

2. Go to **CONFIG>CONNECT** to choose your device.

ⓘ No devices found? Check if one of the available IP addresses of the computer as shown in KLANG:app is in the same range as one of KLANG:konductor's IP addresses (via touch display). Further, check computer's network adapter for connection status.

⚠ If the computer is connected via Ethernet and WiFi to the same network, WiFi should be disabled as running two activenetwork connections could interfere with the device discovery process.

3. For the DiGiCo Console Link see: **www.KLANG.com/digico**

SYSTEM SETUP

⚠ For the next steps, work in Admin mode: Click and hold CONFIG for 3 seconds.

1. Go to **CONFIG>SYSTEM:**

   Activate Root Intensity EQs if required. Specify sampling rate. (SINGLE 48kHz or DOUBLE 96kHz).

   ℹ Regardless of these settings, :konductor does not reduce the input channel count or number of mixes.

2. To apply these changes, click and hold RESTART for 3 seconds.

   ℹ This device does not offer sample rate conversion (SRC) and must therefore run with the same sample rate as the incoming audio stream. Or the DMI card must offer SRC itself.

IO & ROUTING

1. Install required **DMI cards**, e.g. Dante, MADI or Optocore.

   ⚠ Power of the device before swapping cards!

   ℹ Per default DMI 1 delivers the first 64 input channels and DMI 2 input channels 65–128. All 16 Mixes are returned to channels 1–32 of each DMI card per default

2. Go to **>CONFIG>ROUTING** and check routings TO: and FROM: 3Diem. Set clock source or apply diferent routing choices e.g. to convert between DMI cards or to the CUE output.

PHONES & CUE

1. Activate Engineer CUE via front touch display or KLANG:app

2. Select a mix to be cued

    Per default the CUE output is routed to the headphone amp. Otherwise, check and set routing as described in STEP 4.

3. Connect In-Ears or Headphones to the front.

4. Adjust volume with the volume control knob. Push to extend or retract
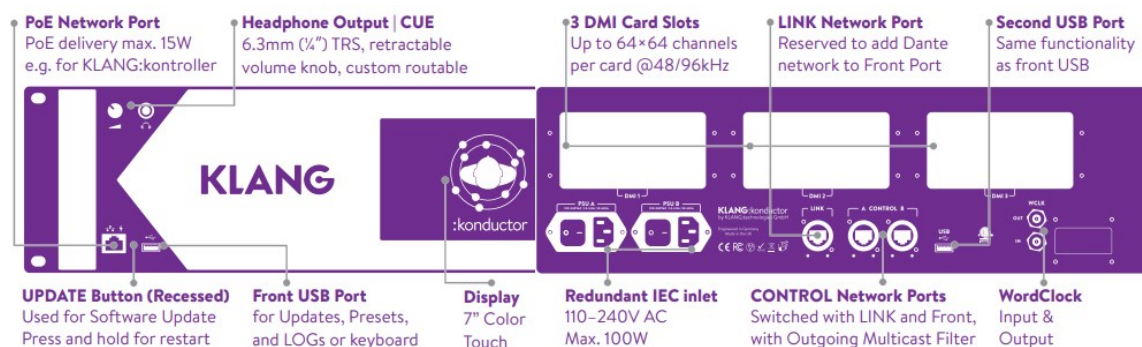
ORCHESTRATE…

1. Go to CONFIG > **CHANNELS** and set colors, icons and edit channel names. Assign channels to individual groups.
2. Create immersive in-ear mixes using **STAGE** and **FADERS.**
3. For further information on setup, mixing and KLANG:apptutorials visit: **www.KLANG.com**/app
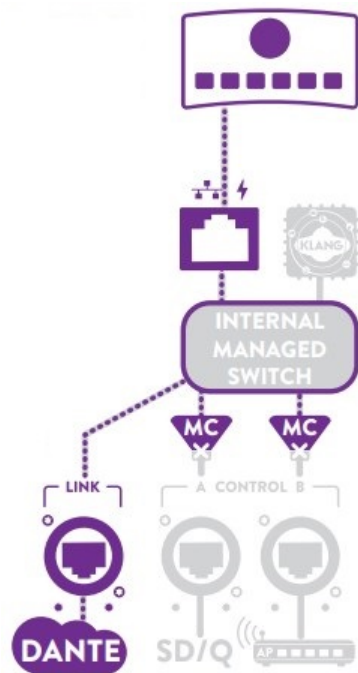

4. For **KOS Software Updates** visit: **www.KLANG.com**/update

TECHNICAL DATA

PoE Network Port
PoE delivery max. 15W
e.g. for KLANG:kontroller

Headphone Output | CUE
6.3mm (¼") TRS, retractable
volume knob, custom routable

3 DMI Card Slots
Up to 64×64 channels
per card @48/96kHz

LINK Network Port
Reserved to add Dante
network to Front Port

Second USB Port
Same functionality
as front USB

UPDATE Button (Recessed)
Used for Software Update
Press and hold for restart

Front USB Port
for Updates, Presets,
and LOGs or keyboard

Display
7" Color
Touch

Redundant IEC inlet
110–240V AC
Max. 100W

CONTROL Network Ports
Switched with LINK and Front,
with Outgoing Multicast Filter

WordClock
Input &
Output

KONTROLLER LINK

1. **For control:** Connect a :kontroller to the front port and assign a :konductor mix to the :kontroller.
2. **For audio:** Install a DMI-Dante into :konductor. Connect its
   Dante port to the LINK port.

⚠️ The KLANG Control and Dante network are now the same network as they are connected to the same internal switch. CONTROL A/B provides a multicast filter, i.e. no multicast tra²c will leave on these ports. It is safe to connect Wireless APs or consoles on these ports, but Dante will not work through these ports.

ℹ️ If Control and Dante are required to stay separate networks, see the VLAN in-depth guide:

www.KLANG.com/vlans

SPECIFICATIONS

- ¼ ms processing latency (without IO cards)
- 2 × USB port for software updates and preset exchange
- 1 × Studio grade headphone amp with volume control
- 7 inch color touch display for direct mix access and cueing
- Dual redundant Power Supply
- 1 × RJ45 Front Ethernet port with PoE delivery
- 2 × RJ45 EtherCON Control Ethernet ports
- 1 × RJ45 EtherCON Ethernet LINK port
- 128 Inputs / 16 Mixes @ 48 and 96kHz
- Root Intensity EQs
- ord Clock input and output
- 192×192 channel audio network router
- Size: 43.5 / 13.3 / 26.8 cm
- Front panel: 48.5cm | 19" | 3 RUs
- Weight: 6.3kg

WARNINGS & PRECAUTIONS
Do not remove covers. Connect only to main sockets outlets with protective earth. Do not handle power cords with wet hands. Do not expose to water or other types of liquids or moisture (rain, fog dew etc.).
Operating temperature: 0°C–50°C (32°F–122°F). Do not expose to heat sources.
COMPLIANCE & SAFETY | WARRANTY
See separate Safety sheet and Warranty included in the product's packaging.
WEEE – RECYCLING
According to RL2002/96/EG (WEEE — Directive on Waste Electrical and Electronic Equipment) electronic equipment has to be recycled and does not belong in the standard waste. If you are unsure how to recycle this product please contact us and we will recycle the device for you.

FOSS
This product contains free and open source software.
For licensing information see: **www.KLANG.com/license** or open KLANG:app > CONFIG > About or type the IP address of KLANG:konductor into an internet browser on a computer connected to thesame network.

Documents / Resources

	KLANG konductor Mix Processing with Minimal Latency [pdf] User Guide konductor Mix Processing with Minimal Latency, konductor, Mix Processing with Minimal Latency, Minimal Latency, Latency

References

- G **KLANG:app - Intuitive Control Over Every 3D Headphone Mix - KLANG:technologies**
- G **DiGiCo Integration | Quick Start Guide - KLANG**
- G **KLANG:konductor**
- G **Software Update | Overview - KLANG**
- G **VLANs on KLANG Processors - Overview - KLANG**

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