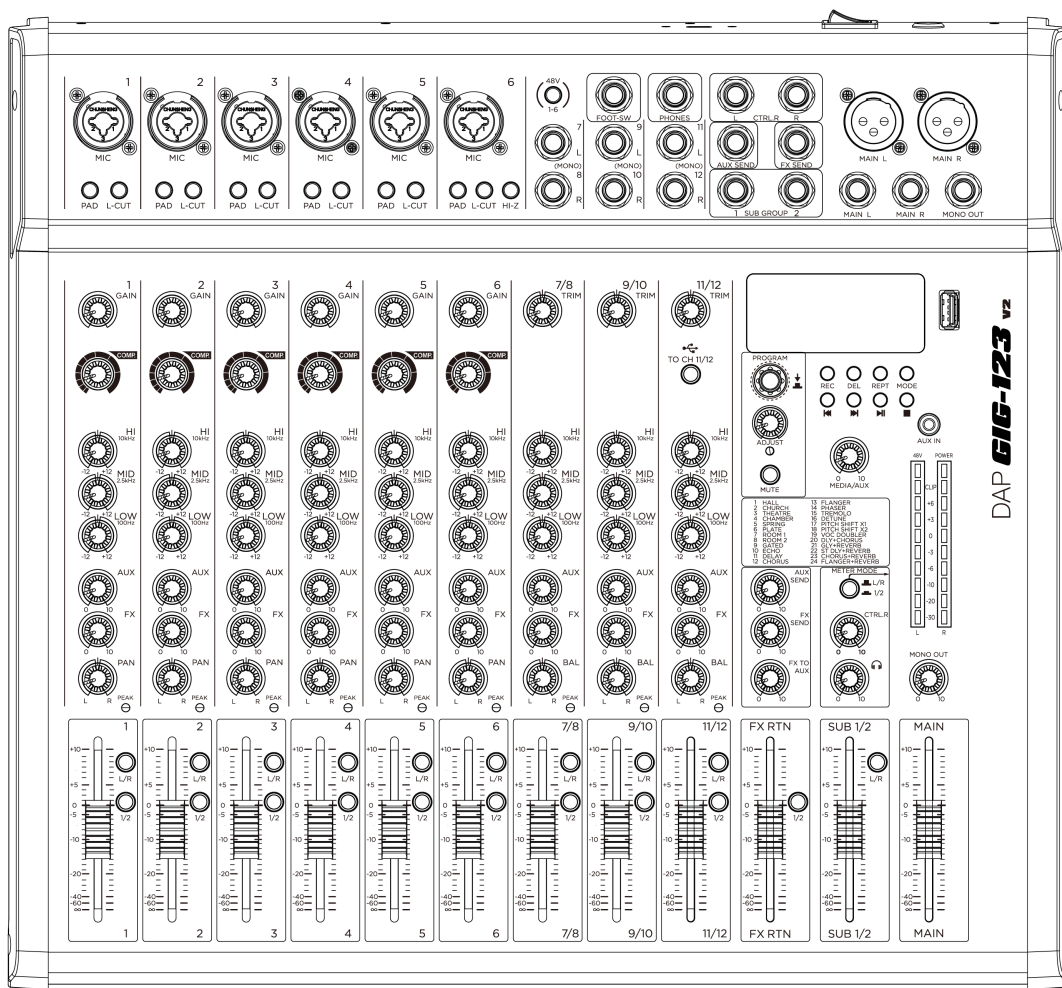




GIG-123 12 Channel Mixer V2

Product code: D2403

Preface

Thank you for purchasing this DAP product.

The purpose of this user manual is to provide instructions for the correct and safe use of this product.

Keep the user manual for future reference as it is an integral part of the product. The user manual shall be stored at an easily accessible location.

This user manual contains information concerning:

- Safety instructions
- Intended and non-intended use of the device
- Installation and operation of the device
- Maintenance procedures
- Troubleshooting
- Transport, storage and disposal of the device

Non-observance of the instructions in this user manual may result in serious injuries and damage of property.

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Highlite International B.V. – Vestastraat 2 – 6468 EX Kerkrade – the Netherlands

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1. Introduction

1.1. Before Using the Product



Important

Read and follow the instructions in this user manual before installing, operating or servicing this product.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

After unpacking, check the contents of the box. If any parts are missing or damaged, contact your Highlite International dealer.

Your shipment includes:

- DAP GIG-123 12 Channel Mixer V2
- 15 V DC power adapter + cable (3 m)
- User manual

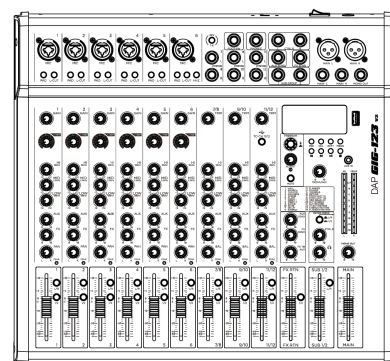
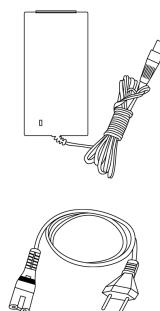


Figure 1

1.2. Intended Use

This device is intended for professional use as an audio mixer. It can be installed only indoors. This device is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

1.3. Product Lifespan

This device is not designed for permanent operation.

Disconnect the device from the electrical power supply when the device is not in operation. This will reduce the wear and will improve the lifespan of the device.

1.4. Text Conventions

Throughout the user manual the following text conventions are used:

- Buttons: All buttons are in bold lettering, for example "Press the **UP/DOWN** buttons"
- References: References to parts of the device are in bold lettering, for example: "turn the **adjustment handle (05)**". References to chapters are hyperlinked
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.5. Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.

**DANGER**

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION**

Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

**Attention**

Indicates important information for the correct operation and use of the product.

**Important**

Read and observe the instructions in this document.

**Hearing damage hazard**

Provides important information about the disposal of this product.

1.6. Symbols on the Information Label

This product is provided with an information label. The information label is located on the back side of the device.

The information label contains the following symbols:



This device is designed for indoor use.



This device shall not be treated as household waste.



The power adapter of this device falls under IEC protection class II.

2. Safety

**Important**

Read and follow the instructions in this user manual before installing, operating or servicing this product.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

2.1. Warnings and Safety Instructions

**DANGER**

Danger for children

For adult use only. The device must be installed beyond the reach of children.

- Do not leave any parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within the reach of children. Packaging material is a potential source of danger for children.

**CAUTION**

Hearing damage risk

Exposure to high sound levels for a prolonged period may result in hearing damage or loss.

Do not listen at high volume levels for long periods.

**Attention**

Incorrect handling of the AC power adapter may result in hazardous situations.

This device is delivered with an AC power adapter. Incorrect handling of the AC power adapter may result in hazardous situations.

- Use only the AC power adapter delivered with the device.
- Do not wrap the power cable around the power adapter or any other object. This can damage the internal wires.
- Do not cover the power adapter with anything when it is plugged into the socket-outlet. This may cause overheating.
- Do not expose the power adapter to water or other liquids.

Do not use the power adapter:

- If it shows signs of overheating, for example the plastic is damaged
- If the AC input pins show signs of corrosion or overheating
- If the power cable is damaged or shows signs of material fatigue.

**Attention**

Power supply

Before connecting the AC power adapter to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the AC power adapter.

**Attention**
General safety

- Do not shake the device. Avoid brute force when installing or operating the device.
- If the device is exposed to extreme temperature variations (e.g. after transportation), do not switch it on immediately. Let the device reach room temperature before switching it on, otherwise it may be damaged by the formed condensation.

**Attention**
For professional use only
This device must be used only for the purposes it is designed for.

This device is designed to be used as an audio mixer. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not suitable for households.
- This device is not designed for permanent operation.
- This device does not contain user-serviceable parts. Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

**Attention**
Before each use, examine the device visually for any defects.

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- The safety devices are not damaged.
- There are no deformations on housings, fixings and installation points.
- The power cables are not damaged and do not show any material fatigue.

**Attention**
Do not expose the device to conditions that exceed the rated IP class conditions.

This device is IP20 rated. IP (Ingress Protection) 20 class provides protection against solid objects greater than 12 mm, such as fingers, and no protection against harmful ingress of water.

2.2. Requirements for the User

This product may be used by ordinary persons. Maintenance may be carried out by ordinary persons. Installation and service shall be carried out only by instructed or skilled persons. Contact your Highlite International dealer for more information.

Instructed persons have been instructed and trained by a skilled person, or are supervised by a skilled person, for specific tasks and work activities associated with the installation, service and maintenance of this product, so that they can identify risks and take precautions to avoid them.

Skilled persons have training or experience, which enables them to recognize risks and avoid hazards associated with the installation, service and maintenance of this product.

Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

3. Description of the Device

The DAP GIG-123 12 Channel Mixer V2 is a compact yet capable 12-channel mixer designed for live performances, studio sessions and hybrid setups. It offers a wide range of inputs, routing options, professional features and onboard effects, making it ideal for musicians, sound engineers and content creators who demand flexibility without compromising on sound quality.

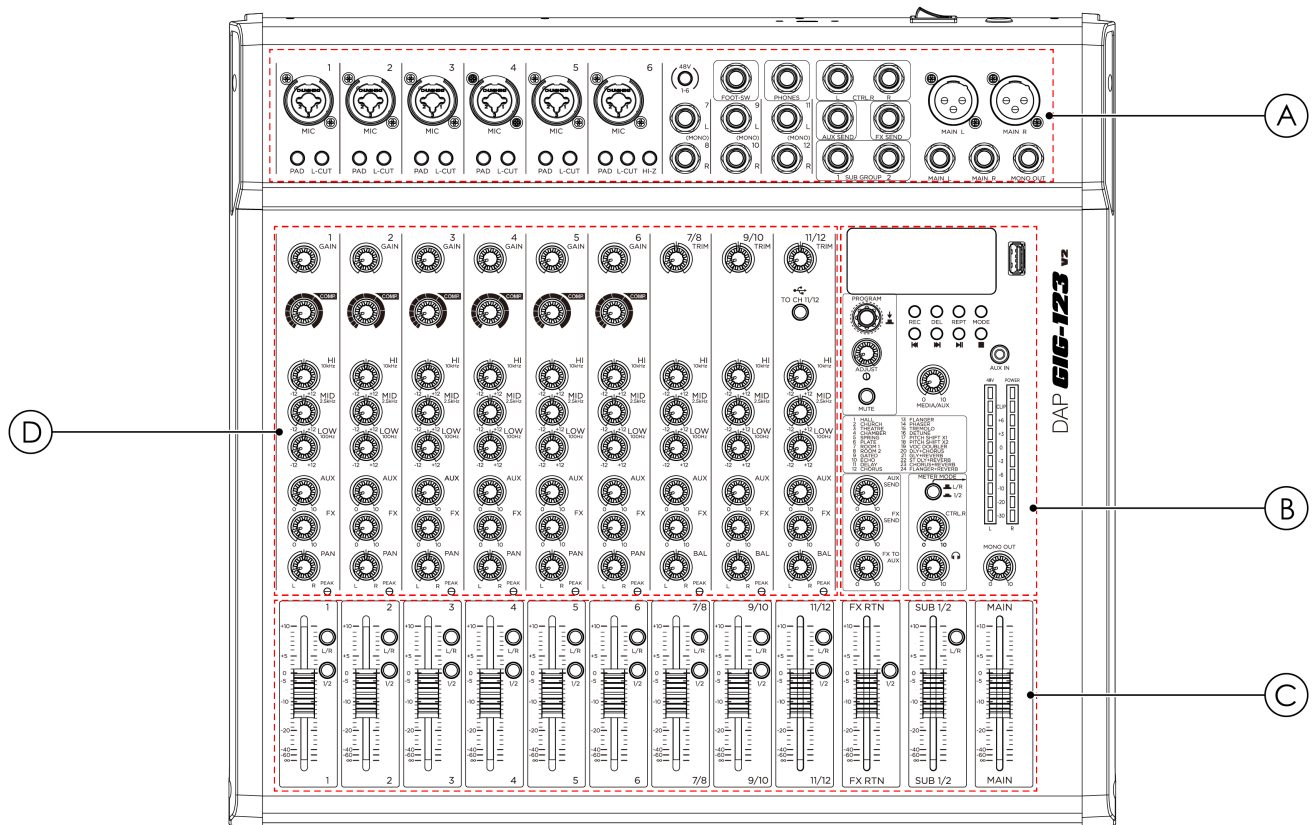
It features 6 XLR/jack combo inputs with a mic preamp, -20 dB pad switch, 48 V phantom power, and low-cut filter. Channel 6 includes a Hi-Z switch, allowing direct connection of instruments such as electric guitars. All 6 mono channels offer gain control, compressor, 3-band EQ, FX and AUX send knobs, pan control, mix level fader, and clip LED indicators. Channels 7-12 provide stereo line-level inputs via dual 6,3 mm jacks, each with gain control, 3-band EQ, FX and AUX send level, pan control and mix level fader. Additional inputs include a 3,5 mm AUX minijack, a USB media player and BT connectivity, which all share a level knob.

The internal effects engine provides a selection of 24 effects, including reverbs, delays and modulations that can be applied to all channels except the 3,5 mm minijack input, BT input and USB media player. For external processing, an FX send output allows routing to outboard gear, with the option to loop the processed signal back into an unused channel. This output can also serve as a monitor send bus, offering additional flexibility. A dedicated AUX bus is available for creating custom monitor mixes, while a stereo subgroup with its own fader and output enables grouped control and parallel processing. All channels except the minijack and USB media player can be routed to this subgroup. For studio use, a control room output with separate level control runs in parallel to the headphone output.

The USB-C interface allows direct connection to a computer for recording or playback, the latter is shared with channels 11 and 12. The main output is available via balanced XLR and jack connectors, and is also offered as a mono sum with separate level control. A clear LED VU meter provides visual feedback of output levels, and the mixer is powered by a dedicated $\pm 15\text{V}$ DC external power supply for stable operation.

3.1. Top View - Overview

Figure 2



A) Input & output connectors (see [3.1.1. Top View - Input and Output Connectors](#))

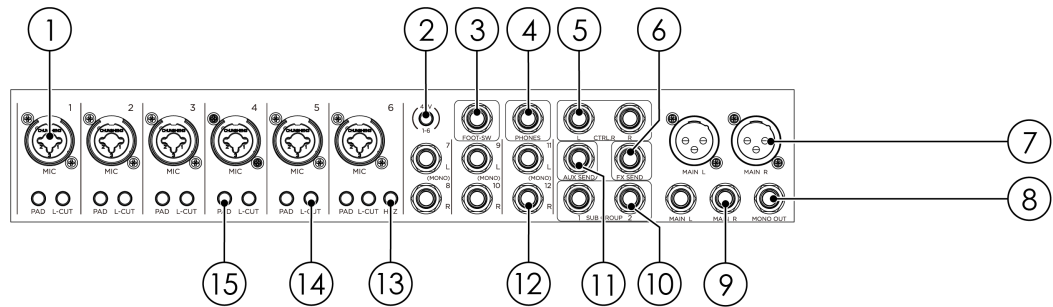
B) Output & media control (see [3.1.2. Top View - Output & Media Control](#))

C) Faders (see [3.1.3. Top View - Faders](#))

D) Mixer controls (see [3.1.4. Top View - Mixer Controls](#))

3.1.1. Top View - Input and Output Connectors

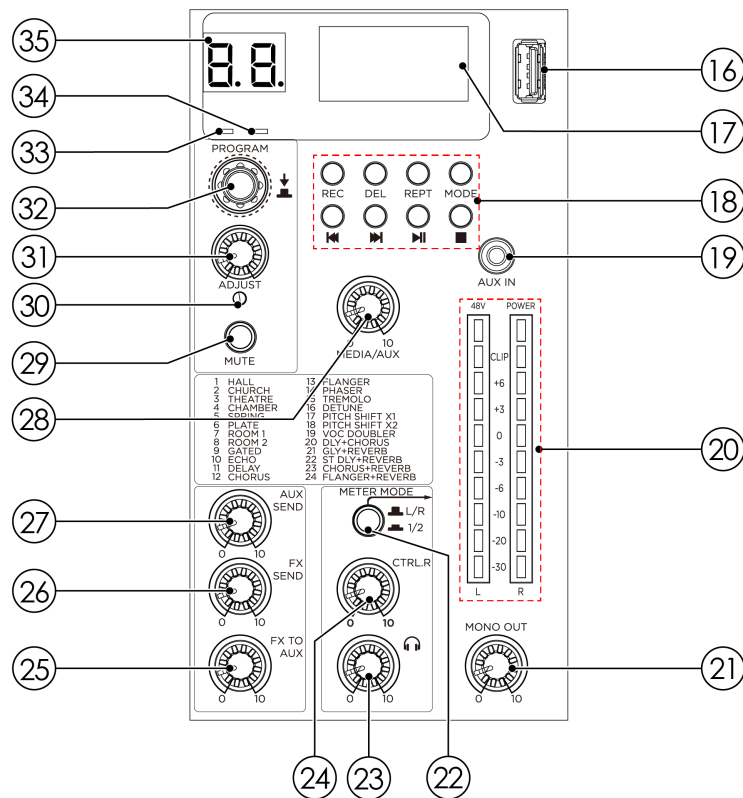
Figure 3



- 01) 6 x combined (3-pin XLR/6,3 mm TRS balanced) mono connector IN
- 02) 48 V phantom power button (for channel 1–6)
- 03) 6,3 mm TS foot switch connector IN
- 04) 6,3 mm TRS balanced headphone connector OUT
- 05) 2 x 6,3 mm TRS balanced control room connector OUT (left/right)
- 06) 6,3 mm TRS balanced FX send connector OUT
- 07) 2 x 3-pin XLR main connector OUT (left/right)
- 08) 6,3 mm TRS balanced mono connector OUT
- 09) 2 x 6,3 mm TRS balanced main connector OUT (left/right)
- 10) 2 x 6,3 mm TRS balanced subgroup 1/2 connector OUT (left/right)
- 11) 6,3 mm TRS balanced AUX send connector OUT
- 12) 6 x 6,3 mm TRS balanced mono/stereo line-level connector IN (left/right)
- 13) Hi-Z button (for channel 6)
- 14) L-cut button (for channel 1–6)
- 15) Pad button (for channel 1–6)

3.1.2. Top View - Output & Media Control

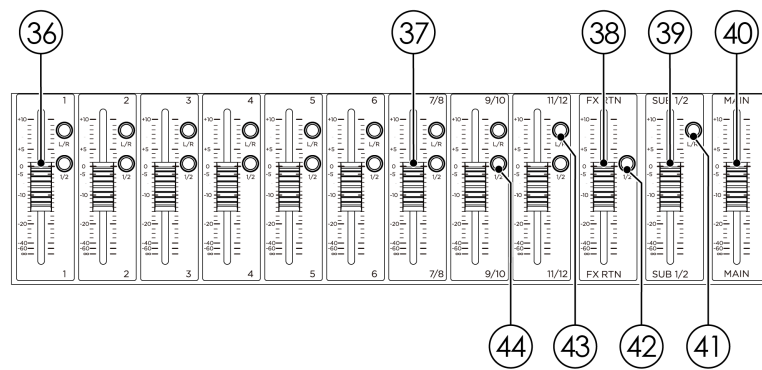
Figure 4



- 16) USB-A connector IN/OUT
- 17) LCD display
- 18) Media controls
- 19) 3,5 mm TRS balanced AUX connector IN
- 20) 2 x LED output VU meter (left/right)
- 21) Mono OUT volume control
- 22) Meter mode button
- 23) Headphone volume control
- 24) Control room volume control
- 25) FX to AUX volume control
- 26) FX send volume control
- 27) AUX send volume control
- 28) Media/AUX volume control
- 29) Mute button for internal FX
- 30) Mute LED indicator
- 31) Program adjustment control
- 32) Program control knob
- 33) FX level LED indicator
- 34) FX clip LED indicator
- 35) 7-segment display (for internal effects)

3.1.3. Top View - Faders

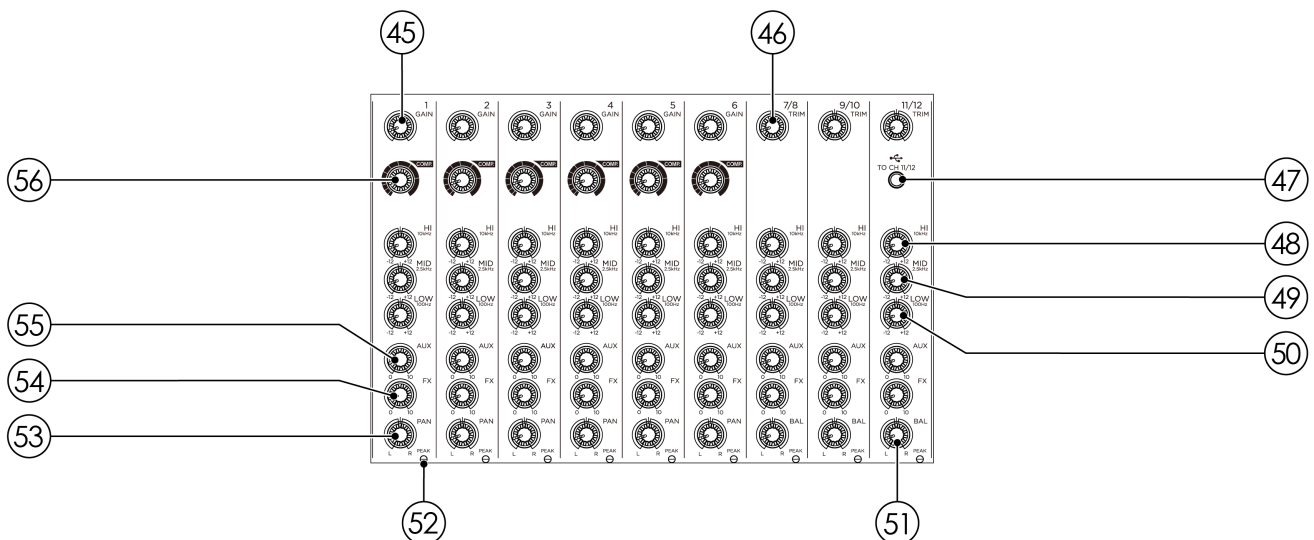
Figure 5



- 36) 6 x mono channel level fader (for channel 1–6)
- 37) 3 x stereo channel level fader (for channel 7–12)
- 38) FX return channel level fader
- 39) Subgroup 1/2 level fader
- 40) Main level fader
- 41) L/R send button (for subgroup 1/2)
- 42) 1/2 send button (for FX return channel)
- 43) 9 x L/R send button (for channel 1–12)
- 44) 9 x 1/2 send button (for channel 1–12)

3.1.4. Top View - Mixer Controls

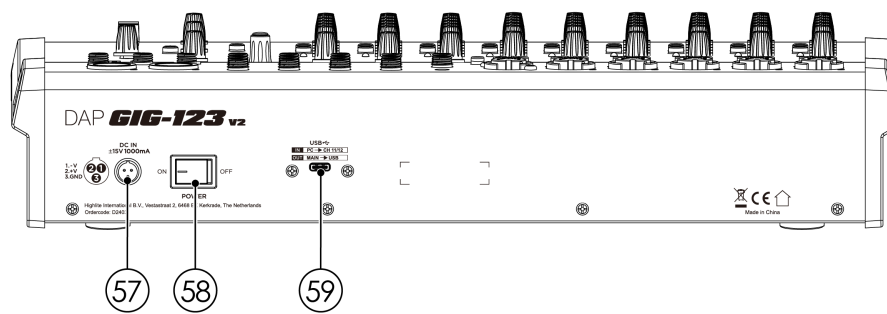
Figure 6



- 45) 6 x gain control (for channel 1–6)
- 46) 3 x trim control (for channel 7–12)
- 47) USB-C interface send button (to channel 11/12)
- 48) 9 x HI EQ band control (for channel 1–12)
- 49) 9 x MID EQ band control (for channel 1–12)
- 50) 9 x LOW EQ band control (for channel 1–12)
- 51) 3 x stereo balance control (for channel 7–12)
- 52) 9 x peak LED indicator (for channel 1–12)
- 53) 6 x mono pan control (for channel 1–6)
- 54) 9 x FX level control (for channel 1–12)
- 55) 9 x AUX level control (for channel 1–12)
- 56) 6 x compression control (for channel 1–6)

3.2. Back View

Figure 7



- 57) 15 V (1000 mA) DC power connector IN
- 58) ON/OFF switch
- 59) USB-C connector IN/OUT for audio interface

3.3. Product Specifications

Model:	GIG-123 12 Channel Mixer V2
--------	-----------------------------

Inputs:	
Mono inputs	6
Mono input connector	3-pin XLR / TRS balanced 6,3 mm
Mono input gain range	60 dB
Mono input impedance	3000 Ω
Stereo inputs	3
Stereo input connector	TRS balanced 6,3 mm
Stereo input gain range	20 dB
Stereo input impedance	10000 Ω
Auxiliary inputs	1
Auxiliary input connector	TRS balanced 3,5 mm
Auxiliary input impedance	10000 Ω
FX return inputs	1
FX return connector	TRS balanced 6,3 mm

Outputs:	
Main outputs	1
Main output connector	3-pin XLR / TRS balanced 6,3 mm
Main output maximum level	22 dBu
Main output impedance	100 Ω
Auxiliary outputs	1
Auxiliary output connector	TRS balanced 6,3 mm
Auxiliary output impedance	120 Ω
Group outputs	2
Group output connector	TS unbalanced 6,3 mm
Group output impedance	120 Ω
FX send outputs	1
FX send connector	TRS balanced 6,3 mm
FX send impedance	120 Ω
Control room output	1
Control room output connector	TRS balanced 6,3 mm
Control room output impedance	120 Ω
Headphone output	1
Headphone output connector	TRS balanced 6,3 mm
Headphone output impedance	32 Ω

Audio Specifications:	
THD level %	< 0,2 %
Signal-to-noise ratio	> 108 dB
Crosstalk	-86 dBu
Frequency response minimum	20 Hz
Frequency response maximum	22000 Hz
Phantom power	48 V

Sound Editing:

Dynamics processing	Compressor
Built-in FX	Yes
FX types	Chorus / delay / echo / flanger / hall / phaser / plate / reverb / room / tremolo

Control and Programming:

Display	7-segment
---------	-----------

Electrical Specifications and Connections:

Power supply	100–240 V AC 50/60 Hz
Output voltage	15 V DC
Power consumption	13 W
Power connector IN	Low voltage DC plug

Mechanical Specifications:

Fader length	70 mm
Height	75 mm
Width	400 mm
Length	367 mm
Installation depth (excl. connector)	75 mm
Flightcase size	Optional 19"
Rack units	9 U
Housing	Metal
Color	Black
Weight	4,04 kg
IP rating	IP20 (indoor use only)

Product Properties:

LED indicators	+48V / BT pairing / clip / output level / power
Handles	All sides

Included Items:

Included accessories	Adapter
----------------------	---------

Power Adapter:

Adapter type	AC-DC adapter
Input voltage	100–240 V AC, 50/60 Hz
Output voltage DC	15 V DC
Output current DC (mA)	1000 mA

Extension Module:

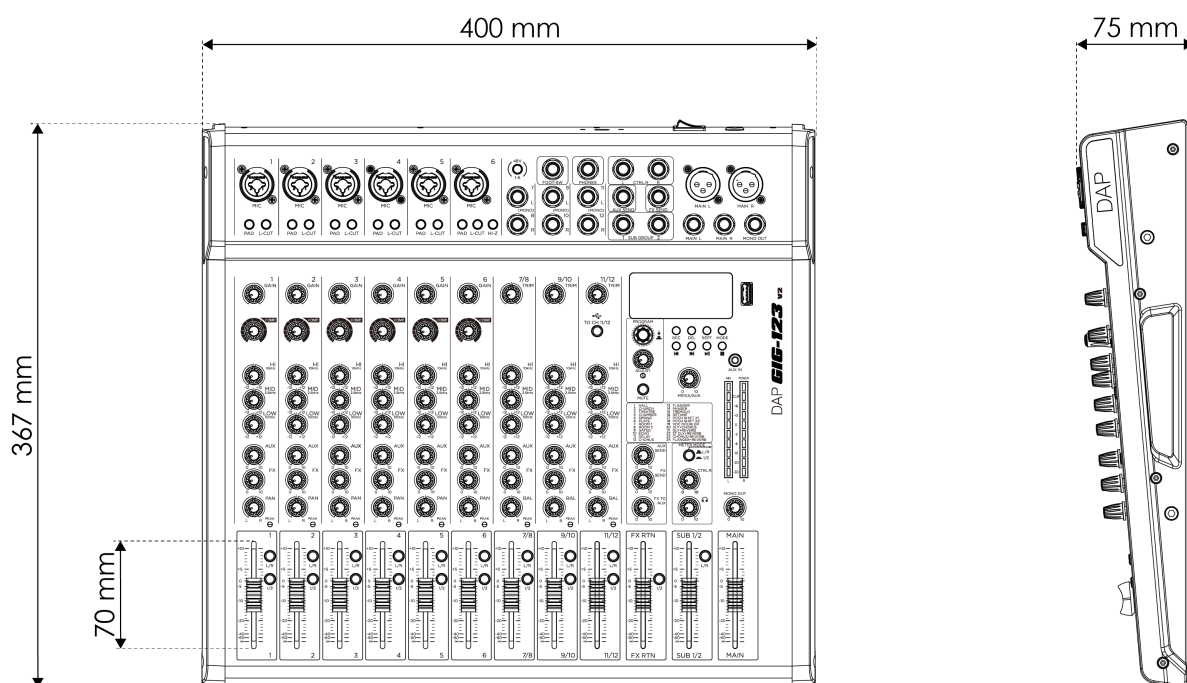
Media player	Yes
Audio module supported files	MP3 / WAV / WMA
Audio module maximum storage size	64 GB
Audio module media IN/OUT	USB-A
Audio module USB type	2.0

Wireless Specifications:

BT	Yes
BT version	5.0
BT range	20 m

Digital Playback:

Audio interface	Yes
Audio interface USB input	1
Audio interface input connection	USB-C
Audio interface supported input channels	2
Audio interface supported output channels	2

3.4. Dimensions**Figure 8**

4. Setup

4.1. Warnings and Precautions



Attention

Make sure that all inputs and outputs are connected before turning the power on.
Turn the power off before disconnecting inputs or outputs.

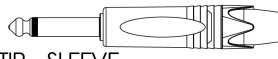
4.2. Pin OUT and Connection Diagram



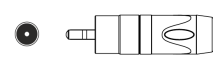
XLR



TIP RING SLEEVE

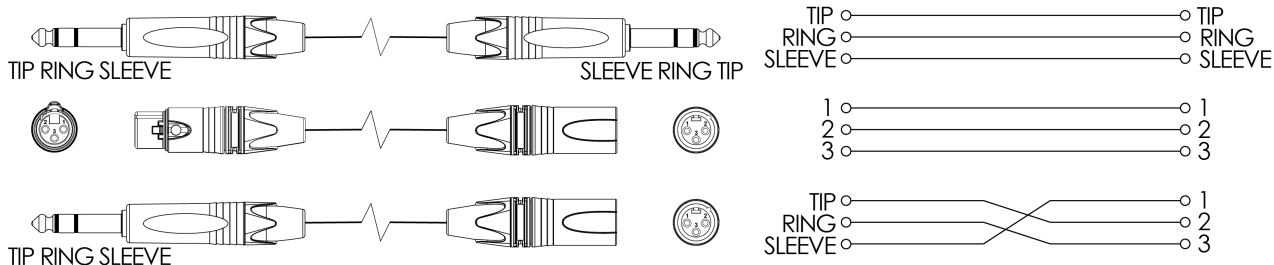
3-pole 1/4"
(A gauge TRS) jack

TIP SLEEVE

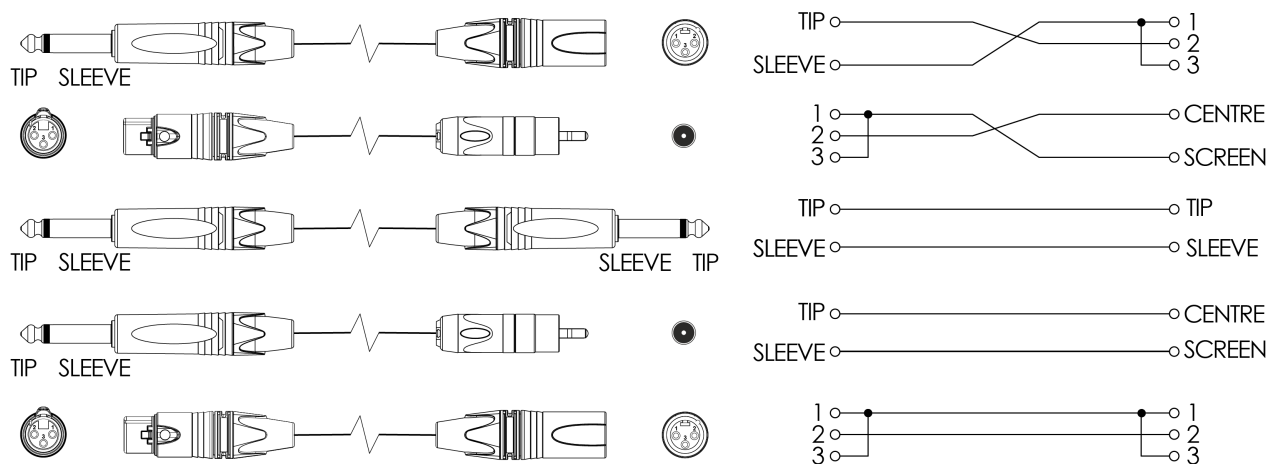
2-pole 1/4"
(A gauge TS) jack

RCA phono

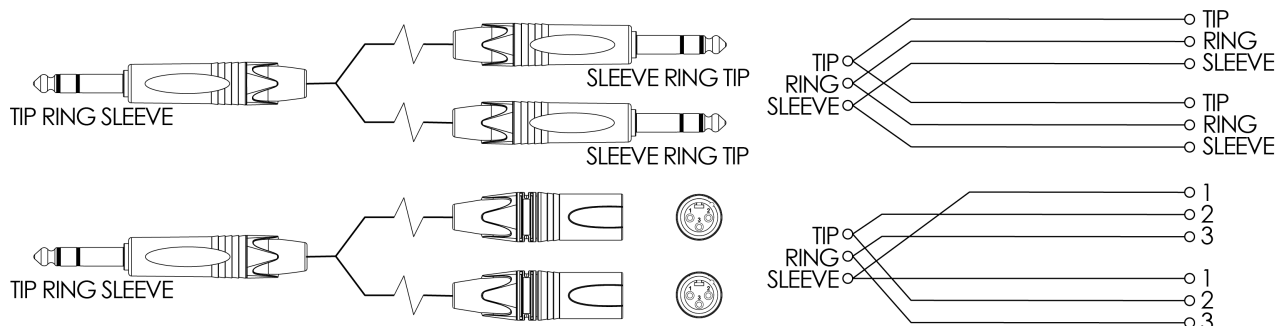
01) Balanced - Line inputs, mix L & R outputs, stereo inputs, auxiliary outputs



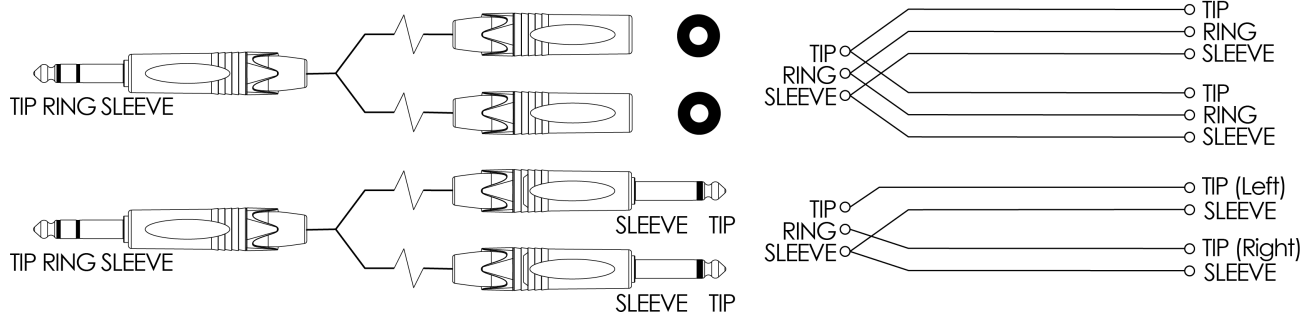
02) Unbalanced - Direct output, monitor output, stereo return inputs



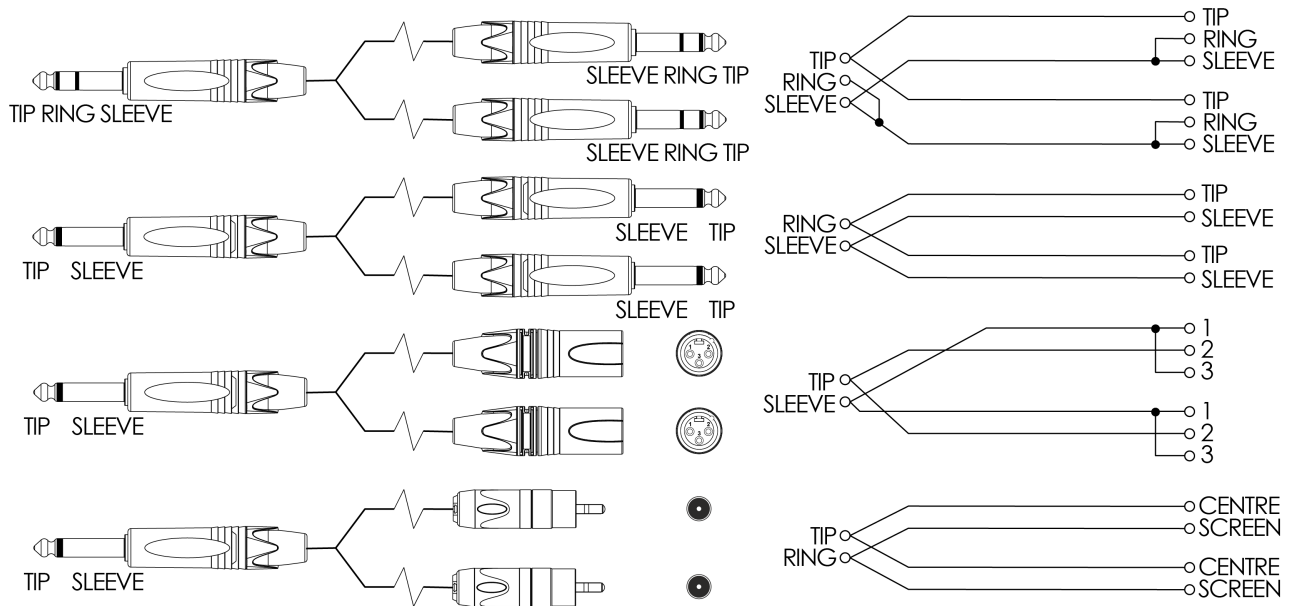
03) 'Y' cables (balanced) - Aux, mix outputs



04) Headphone separator



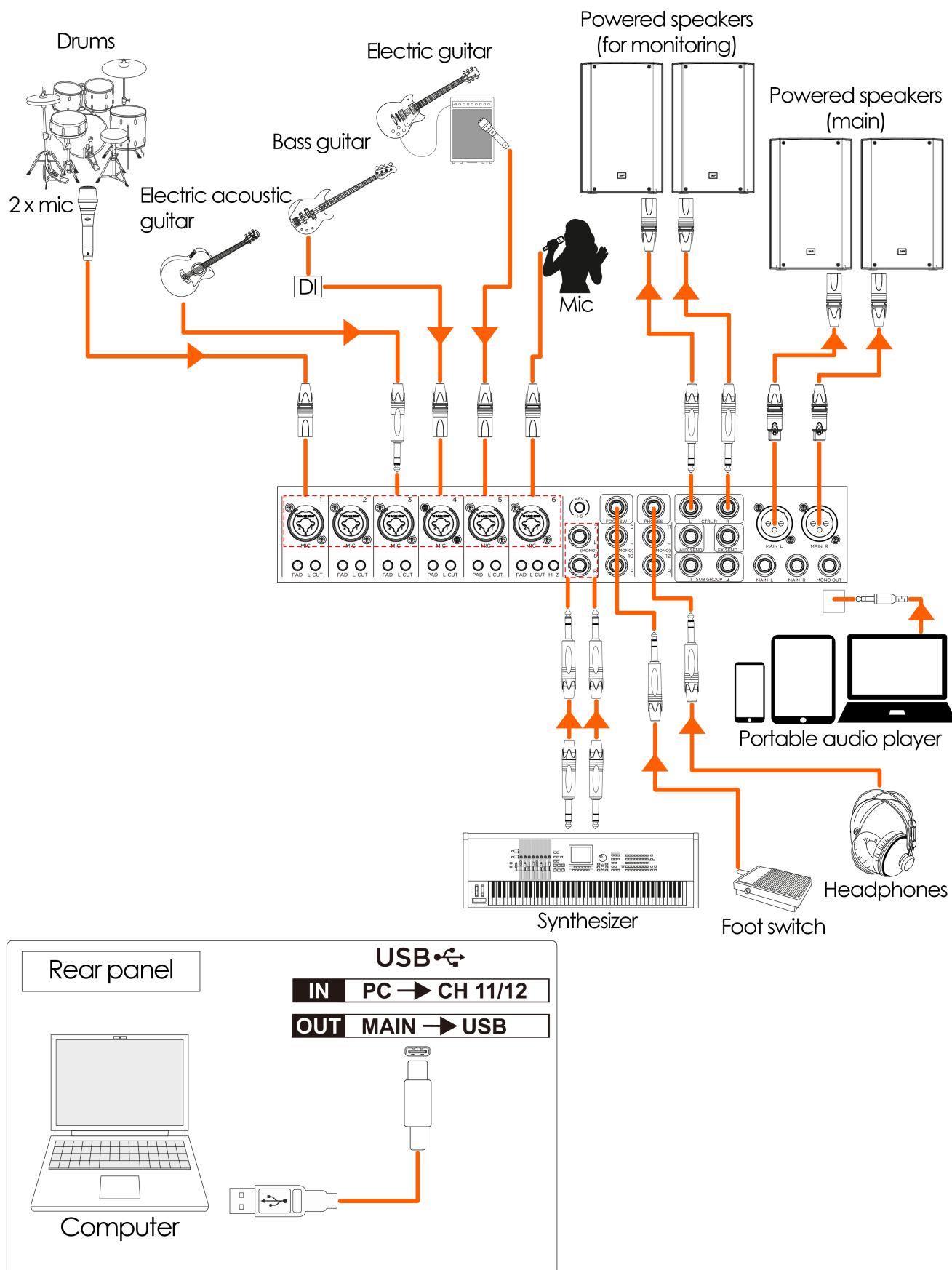
05) 'Y' cables (unbalanced)



4.3. Setup Examples

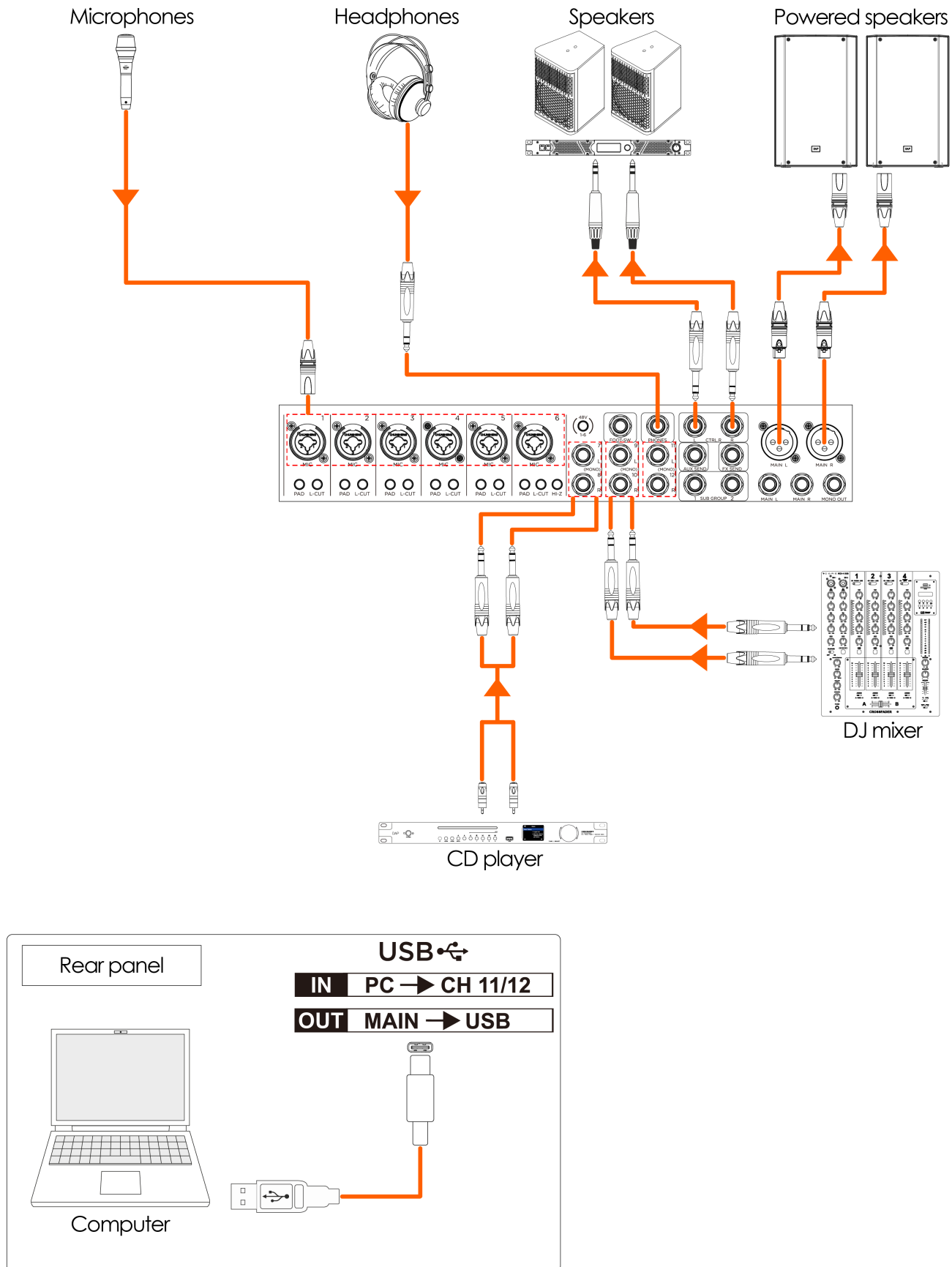
4.3.1. Setup for Live Performance

Figure 9



4.3.2. Setup for Events and Parties

Figure 10



4.4. Input Connections

You can connect various external devices to the GIG-123 12 Channel Mixer V2:

- microphones, DI boxes or similar devices (see [4.4.1. Connecting a Microphone, DI Box or Similar Device](#))
- line-level devices (see [4.4.2. Connecting a Stereo Line-Level Device](#))
- a Hi-Z source (see [4.4.3. Connecting a Hi-Z Source Device](#))
- an AUX device (see [4.4.4. Connecting an AUX Device](#))
- a laptop or PC (see [4.6. USB-C Connection](#) on page 23)
- a USB flashdrive (see [4.7. Connecting a USB Flashdrive](#) on page 23)
- a streaming source device (see [5.4. BT Connection](#) on page 27)

Note:

Before connecting any input, make sure that the gain control and lever fader for the respective channel (see [5.2. Control Elements](#) on page 25) are turned down.

4.4.1. Connecting a Microphone, DI Box or Similar Device

You can connect 6 microphones, DI boxes or similar devices to the **combined mono connectors IN (01)** of the GIG-123 12 Channel Mixer V2.

To connect a microphone to the GIG-123 12 Channel Mixer V2, follow the steps below:

- 01) Switch on the GIG-123 12 Channel Mixer V2.
- 02) Make sure that the **mono channel level fader (36)** for the channel is turned down.
- 03) Press the **48 V phantom power button (02)** to turn phantom power on or off, depending on the microphone.
- 04) Connect the microphone to one of the 6 **combined mono connectors IN (01)**.
- 05) Switch on the microphone.
- 06) Adjust the **gain control (45)**.
- 07) Adjust the **mono channel level fader (36)** for the channel as necessary.
- 08) Adjust the input settings for the channel as necessary (see [5.2. Control Elements](#) on page 25).

4.4.2. Connecting a Stereo Line-Level Device

You can connect 3 stereo line-level devices in mono or stereo to the **6,3 mm TRS balanced mono/stereo line-level connectors IN (12)** of the GIG-123 12 Channel Mixer V2.

To connect a line-level device to the GIG-123 12 Channel Mixer V2, follow the steps below:

- 01) Switch on the GIG-123 12 Channel Mixer V2.
- 02) Make sure that the **stereo channel level fader (37)** for the channel is turned down.
- 03) Connect the line-level device to the left and right channel of one of the **6,3 mm TRS balanced mono/stereo line-level connectors IN (12)**. Use only the left channel for a mono connection.
- 04) Switch on the line-level device.
- 05) Adjust the **trim control (46)**.
- 06) Adjust the **stereo channel level fader (37)** for the channel as necessary.
- 07) Adjust the input settings for the channel as necessary (see [5.2. Control Elements](#) on page 25).

4.4.3. Connecting a Hi-Z Source Device

You can connect a Hi-Z (high impedance) device, such as an electric guitar, to the 6th **combined mono connector IN (01)** of the GIG-123 12 Channel Mixer V2.

To connect a Hi-Z source device to the GIG-123 12 Channel Mixer V2, follow the steps below:

- 01) Switch on the GIG-123 12 Channel Mixer V2.
- 02) Make sure that the **mono channel level fader (36)** for the 6th channel is turned down.
- 03) Connect the Hi-Z source device to the 6th **combined mono connector IN (01)**.
- 04) Press the **Hi-Z button (13)** to turn the Hi-Z mode on.
- 05) Switch on the Hi-Z source device.
- 06) Adjust the **mono channel level fader (36)** for the 6th channel as necessary.
- 07) Adjust the input settings for the 6th channel as necessary (see [5.2. Control Elements](#) on page 25).

4.4.4. Connecting an AUX Device

You can connect an external AUX device, such as a media player, to the **3,5 mm TRS balanced AUX connector IN (19)** of the GIG-123 12 Channel Mixer V2.

To connect an external AUX device, follow the steps below:

- 01) Switch on the GIG-123 12 Channel Mixer V2.
- 02) Make sure that the **media/AUX volume control (28)** is turned down.
- 03) Connect the external AUX device to the **3,5 mm TRS balanced AUX connector IN (19)**.
- 04) Switch on the AUX device.
- 05) Adjust the **media/AUX volume control (28)** as necessary.

4.5. Output Connections

The GIG-123 12 Channel Mixer V2 has the following audio output connectors:

Output Connector	Function
6,3 mm TRS balanced headphone connector OUT (04)	Connect to headphones to listen to the main mix output. Adjust the output volume with the headphone volume control (23)
6,3 mm TRS balanced control room connectors OUT (left/right) (05)	Connect a stereo signal to output devices in a control room, for example in a studio. The control room output runs parallel to the headphones output. Adjust the output volume with the control room volume control (24)
6,3 mm TRS balanced FX send connector OUT (06)	Send the output to an external FX processing chain (see 4.8. Setting Up an FX Chain on page 24)
3-pin XLR main connectors OUT (left/right) (07)	Connect a stereo signal to the main output devices
6,3 mm TRS balanced mono connector OUT (08)	Connect a mono sum signal of the main mix. Adjust the output volume with the mono OUT volume control (21)
6,3 mm TRS balanced main connectors OUT (left/right) (09)	Connect a stereo signal to the main output devices
6,3 mm TRS balanced subgroup 1/2 connectors OUT (left/right) (10)	Connect a stereo signal of subgroup 1/2. Adjust the output volume with the subgroup 1/2 level fader (39)
6,3 mm TRS balanced AUX send connector OUT (11)	Connect a separate AUX output device to create custom monitor mixes. Adjust the output volume with the AUX send volume control (27)
USB-C connector IN/OUT (59)	Connect to a device such as a laptop or PC (see 4.6. USB-C Connection on page 23)



CAUTION
Hearing damage risk

The GIG-123 12 Channel Mixer V2 can produce high output levels via the **6,3 mm TRS balanced headphone connector OUT (04)**. Make sure that the **headphone volume control (23)** is set to 0 before connecting headphones.

4.6. USB-C Connection

The GIG-123 12 Channel Mixer V2 has a **USB-C connector IN/OUT (59)** that can be used as an input or output. When the **USB-C connector IN/OUT (59)** is used as an input, it uses stereo channel 11/12 of the GIG-123 12 Channel Mixer V2. When the **USB-C connector IN/OUT (59)** is used as an output, it can send the main mix output to a device such as a laptop or PC.

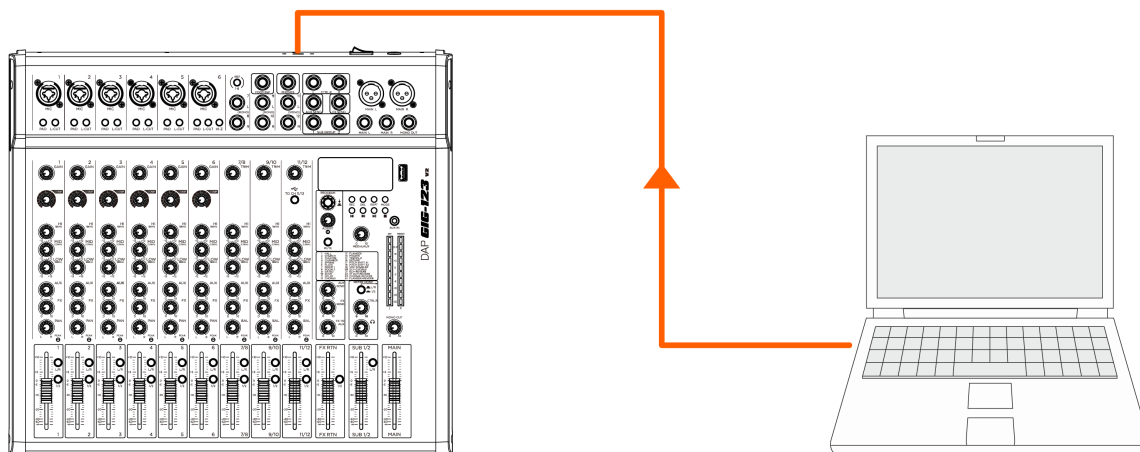
The GIG-123 12 Channel Mixer V2 is equipped with a stereo bi-directional USB 1.1 compliant audio CODEC. It is fully compliant with USB 2 ports and uses standard Windows and Mac Core Audio Drivers. When connecting the GIG-123 12 Channel Mixer V2 to a computer, the computer can automatically find the device and transfer audio to and from the GIG-123 12 Channel Mixer V2.

You must run audio software on your computer to be able to record and play back your recordings. You can use your computer's media player to play audio straight to the GIG-123 12 Channel Mixer V2.

To connect a laptop or PC as an input or output, follow the steps below:

- 01) Connect the USB-A connector of a USB-A to USB-C cable to the USB-C connector OUT of a laptop or PC.
- 02) Connect the other USB-C connector of the USB-A to USB-C cable to the **USB-C connector IN/OUT (59)** of the GIG-123 12 Channel Mixer V2.
- 03) Use the **USB-C interface send button (47)** to set the **USB-C connector IN/OUT (59)** as an input or output (see [5.2. Control Elements](#) on page 25).

Figure 11



4.7. Connecting a USB Flashdrive

The GIG-123 12 Channel Mixer V2 has a **USB-A connector IN/OUT (16)** that can be used for playing audio from a USB flashdrive or recording audio to a USB flashdrive (see [5.5. Media Playback and Recording](#) on page 28).

To play or record audio, follow the steps below:

- 01) Connect a USB flashdrive to the **USB-A connector IN/OUT (16)**.
- 02) Adjust the **media/AUX volume control (28)** as necessary.
- 03) Use the **media controls (18)** to play or record audio.

4.8. Setting Up an FX Chain

The GIG-123 12 Channel Mixer V2 can send the audio mix to the **6,3 mm TRS balanced FX send connector OUT (06)** for processing the audio through an external FX chain. The processed signal from the FX chain can be looped back into the device through any unused channel.

To connect an external FX chain, follow the steps below:

- 01) Connect the **6,3 mm TRS balanced FX send connector OUT (06)** to the input of the 1st device in the FX chain.
- 02) Connect the output of the final device in the FX chain to any unused input, for example a **combined mono connector IN (01)**.
- 03) Adjust the input settings for the channel as necessary (see [5.2. Control Elements](#) on page 25).

4.9. Connecting to Power Supply

**Attention**

Incorrect handling of the AC power adapter may result in hazardous situations.

This device is delivered with an AC power adapter. Incorrect handling of the AC power adapter may result in hazardous situations.

- Make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the AC power adapter.
- Connect the device to the socket-outlet with the delivered AC power adapter. Use only the AC power adapter delivered with the device.
- Make sure that the socket-outlet is easily accessible.
- Disconnect the AC power adapter from the socket-outlet when the device is not in use.

5. Operation

5.1. Safety Instructions for Operation



Attention

This device must be used only for the purposes it is designed for.

This device is intended for professional use as an audio mixer. It can be used only indoors. This device is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.



Attention

Power supply

Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

5.2. Control Elements

The GIG-123 12 Channel Mixer V2 has the following control elements:

Control Element	Function
Hi-Z button (13)	Switch on Hi-Z mode for the 6 th combined mono connector IN (01)
L-cut button (14)	Switch on the low-cut filter on the channel to remove lower frequencies
Pad button (15)	Lower the input signal on the channel with -20 dB pad
Mono OUT volume control (21)	Adjust the output volume for the 6,3 mm TRS balanced mono connector OUT (08)
Meter mode button (22)	Switch the output that is monitored with the LED output VU meters (20) (see 5.8. LED output VU meters on page 34)
Headphone volume control (23)	Adjust the output volume for the 6,3 mm TRS balanced headphone connector OUT (04)
Control room volume control (24)	Adjust the output volume for the 6,3 mm TRS balanced control room connectors OUT (05)
FX to AUX volume control (25)	Adjust the level of the active internal effect that is sent to the 6,3 mm TRS balanced AUX send connector OUT (11)
FX send volume control (26)	Adjust the output volume for the 6,3 mm TRS balanced FX send connector OUT (06)
AUX send volume control (27)	Adjust the output volume for the 6,3 TRS balanced AUX send connector OUT (11)
Media/AUX volume control (28)	Adjust the input volume of the devices connected to the USB-A connector IN/OUT (16) , the 3,5 mm TRS balanced AUX connector IN (19) or connected through BT (see 5.4. BT Connection on page 27)
Mute button for internal FX (29)	Mute the active internal effect
Mute LED indicator (30)	Illuminates red when the active internal effect is muted
Mono channel level fader (36)	Adjust the level of the channel in the main audio mix and subgroup mix
Stereo channel level fader (37)	Adjust the level of the stereo channel in the main audio mix and subgroup mix
FX return channel level fader (38)	Adjust the level of the internal effects in the main audio mix

Control Element	Function
Subgroup 1/2 level fader (39)	Adjust the overall output level for the 6,3 mm TRS balanced control room connectors OUT (05)
Main level fader (40)	Adjust the overall output level for the 3-pin XLR main connectors OUT (07) and the 6,3 mm TRS balanced main connectors OUT (09)
L/R send button for subgroup 1/2 (41)	Send the subgroup mix to the main audio mix
1/2 send button for FX return channel (42)	Send the internal effects to the subgroup mix
L/R send button for channel 1–12 (43)	Send the signal of the channel to the subgroup mix
1/2 send button for channel 1–12 (44)	Send the signal of the channel to the main audio mix
Gain control (45)	Adjust the input gain for the channel
Trim control (46)	Adjust the trim for the channel
USB-C interface send button (47)	Set the USB-C connector IN/OUT (59) (see 4.6. USB-C Connection on page 23) to be used as an input (button pressed) or as an output (button raised)
HI EQ band control (48)	Adjust the high frequency range. Applies a shelving filter above 10 kHz. You can cut or boost the EQ band up to 12 dB. In the center position (0 dB) the equalizer has a flat response
MID EQ band control (49)	Adjust the mid frequency range. Applies a peak filter at 2,5 kHz. You can cut or boost the EQ band up to 12 dB. In the center position (0 dB) the equalizer has a flat response
LOW EQ band control (50)	Adjust the low frequency range. Applies a shelving filter below 100 Hz. You can cut or boost the EQ band up to 12 dB. In the center position (0 dB) the equalizer has a flat response
Stereo balance control (51)	Set the position of the channel in the main audio mix and subgroup mix
Peak LED indicator (52)	Illuminates when the input signal for the channel is clipping
Mono pan control (53)	Set the position of the channel in the main audio mix and subgroup mix
FX level control (54)	Adjust the amount of the active internal effect that is applied to the channel. At the left most position (0) the internal effect is not applied to the channel
AUX level control (55)	Adjust the level of the channel in the mix that is sent to the 6,3 mm TRS balanced AUX send connector OUT (11)
Compression control (56)	Adjust the amount of compression applied to the channel

5.3. Switching On and Off

The device has an **ON/OFF switch (58)**.

- To switch the device on, press the **ON/OFF switch (58)** in ON position.
- To switch the device off, press the **ON/OFF switch (58)** in OFF position.

5.4. BT Connection

The GIG-123 12 Channel Mixer V2 has an integrated BT receiver. You can pair the GIG-123 12 Channel Mixer V2 with a personal computer or a portable device with BT (a streaming source device) to stream sound.

Note:

Make sure that there is clear line of sight between 2 BT devices.

The average effective range between BT devices is 10–30 m. The effective range depends on the receiver sensitivity, the transmit power, the antenna gain and the path loss. Path loss occurs over distance and is impacted by the environment in which the signal is being transmitted. Sources of interference between the transmitter and the receiver deteriorate the signal.

5.4.1. Playing Audio from a Streaming Source Device

You can pair the GIG-123 12 Channel Mixer V2 with a streaming source device via BT. BT is always active when the GIG-123 12 Channel Mixer V2 is turned on.

To pair the devices and play audio, follow the steps below:

- 01) Set the GIG-123 12 Channel Mixer V2 to the BT playback mode (see [5.6.1. BT Playback Menu](#) on page 29).
- 02) Switch on the BT functionality on the streaming source device and scan for available BT devices. The default name of the GIG-123 12 Channel Mixer V2 is DAP audio.
- 03) Select the GIG-123 12 Channel Mixer V2 from the list of available BT devices and pair the device. When pairing is completed and the devices are connected the **mode indicator (A)** (see [5.5.1. LCD Display](#) on page 28) in the top left of the **LCD display (17)** stops blinking and displays BT.
- 04) Use the **media controls (18)** to play, pause or stop the audio or switch between audio tracks. Alternatively, you can control the audio from the streaming source device.

Notes:

- If you switch the device off and on again, the device automatically reconnects to the last connected BT source device. If you want to pair the device to a different streaming source device, you need to terminate the current BT connection.
- The BT connection can only be terminated from the streaming source device.

5.5. Media Playback and Recording

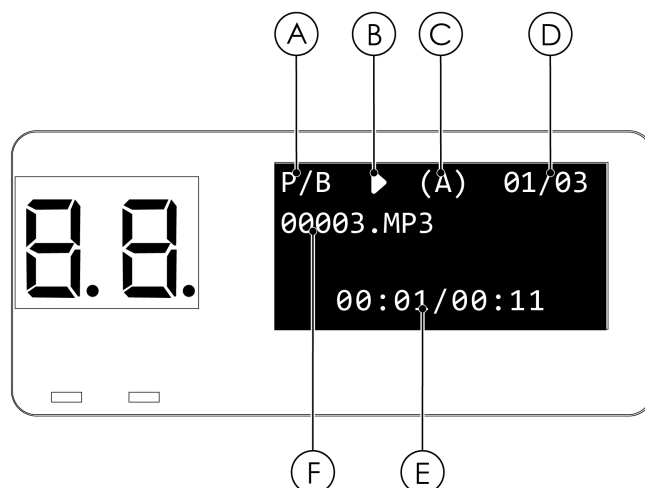
The GIG-123 12 Channel Mixer V2 can play audio from a connected BT streaming source device or a connected USB flashdrive (see [4.6. USB-C Connection](#) on page 23). It can also record audio to a connected USB flashdrive.

You can control the media playback and recording with the **LCD display (17)** (see [5.5.1. LCD Display](#)) and **media controls (18)**.

5.5.1. LCD Display

Figure 12

- A) Mode indicator
- B) Play/pause/record indicator
- C) Repeat indicator
- D) Track number
- E) Playtime
- F) Track name



5.6. Menu Options

Upon start-up the display shows a splash screen with DAP:



Immediately afterwards, the display shows the BT playback menu (see [5.6.1. BT Playback Menu](#)).

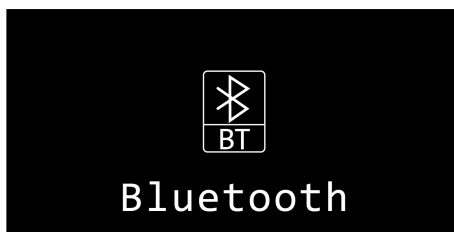
The GIG-123 12 Channel Mixer V2 has 4 different menu's:

- BT (see [5.6.1. BT Playback Menu](#))
- Rec PlayBack (see [5.6.2. Recording Playback Menu](#))
- Recorder (see [5.6.3. Recording Menu](#))
- UDisk Music (see [5.6.4. USB Playback Menu](#))

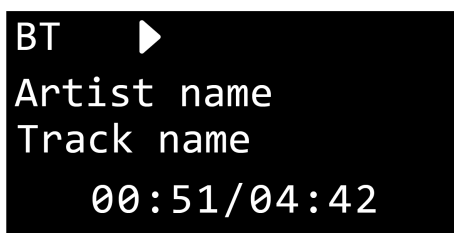
5.6.1. BT Playback Menu

In this menu you can play audio from a connected streaming source device (see [5.4. BT Connection](#) on page 27).

Upon entering the menu, the display shows a splash with the menu name:



Immediately afterwards, the display shows the play/pause indicator, the artist name of the current track, the track name of the current track and the playtime of the current track:



You can use the following media controls in this menu:

 MODE	Mode button	Go to the next mode
	Previous track button	Go to the previous track
	Next track button	Go to the next track
	Play/pause button	Play or pause the current track
	Stop button	Stop the playback of the current and go to the beginning of the track

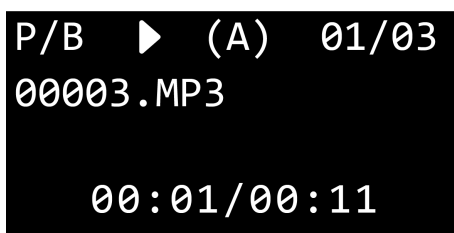
5.6.2. Recording Playback Menu

In this menu you can play audio that has been recorded to the connected USB flashdrive (see [4.7. Connecting a USB Flashdrive](#) on page 23) and stored in the REC folder (see [5.6.3. Recording Menu](#) on page 31).

Upon entering the menu, the display shows a splash with the menu name:



Immediately afterwards, the display shows the play/pause indicator, the active repeat mode, name of the current track and the playtime of the current track.



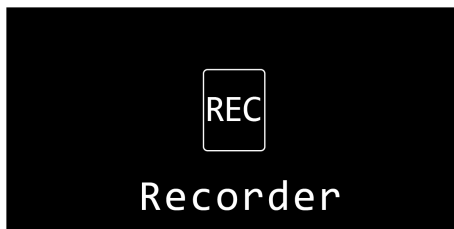
You can use the following media controls in this menu:

 DEL	Delete button	Delete the current track from the USB flashdrive
 MODE	Mode button	Go to the next mode
 ◀	Previous track button	Go to the previous track
 ▶	Next track button	Go to the next track
 ▶	Play/pause button	Play or pause the current track
 ■	Stop button	Stop the playback of the current track and go to the beginning of the track

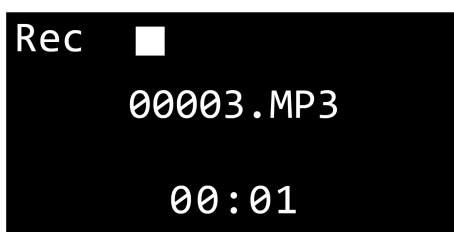
5.6.3. Recording Menu

In this menu you can record audio to the connected USB flashdrive (see [4.7. Connecting a USB Flashdrive](#) on page 23). The GIG-123 12 Channel Mixer V2 creates a folder named REC at the root level of the USB flashdrive. Each recording is stored as a separate MP3 file in the REC folder. The file names of the recorded tracks are numbered, for example 00001.MP3.

Upon entering the menu, the display shows a splash with the menu name:



Immediately afterwards, the display shows the record status, the title of the recording and the recording time:



You can use the following media controls in this menu:

	Record button	Start the recording of a new track
	Mode button	Go to the next mode
	Play/pause button	Pause or resume the current recording

Note:

If you press the record button during an active recording, the device stops the recording of the current track and starts the recording of a new track.

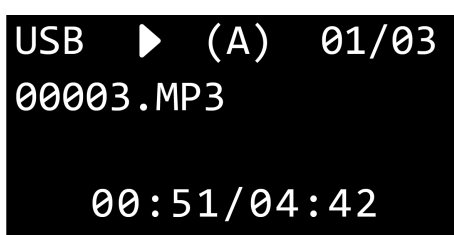
5.6.4. USB Playback Menu

In this menu you can play audio that has been stored on the connected USB flashdrive (see [4.7. Connecting a USB Flashdrive](#) on page 23). The GIG-123 12 Channel Mixer V2 plays hierarchically through all the folders that are available on the USB flashdrive.

Upon entering the menu, the display shows a splash with the menu name:



Immediately afterwards, the display shows the record indicator, the name of the current track and the recording time:



Notes:

- In this menu the GIG-123 12 Channel Mixer V2 does not play audio from the REC folder on the USB flashdrive (see [5.6.3. Recording Menu](#) on page 31).
- If the current track is paused and the next track button is pressed, the next track is loaded but remains paused as well (single mode).

You can use the following media controls in this menu:

	Repeat button	Cycle through the repeat functions (repeat all tracks/random/repeat current track)
	Mode button	Switch to the next mode
	Previous track button	Go to the previous track
	Next track button	Go to the next track
	Play/pause button	Play or pause the current track
	Stop button	Stop the playback of the current track and go to the beginning of the track

5.7. Internal Effects

The GIG-123 12 Channel Mixer V2 has 24 internal effects that can be applied to channels 1–12. You can select 1 effect and adjust it for each channel separately with the **FX level controls (54)**. You can mute all the effects simultaneously with the **mute button (29)** or a footswitch (see [5.7.1. Using a Footswitch](#)).

Note:

The effects are not applied to the BT input signal, the **USB-A connector IN/OUT (16)** or the **3,5 mm TRS balanced AUX connector IN (19)**.

The following internal effects are available:

- 01) Hall
- 02) Church
- 03) Theatre
- 04) Chamber
- 05) Spring
- 06) Plate
- 07) Room 1
- 08) Room 2
- 09) Gated
- 10) Echo
- 11) Delay
- 12) Chorus
- 13) Flanger
- 14) Phaser
- 15) Tremolo
- 16) Detune
- 17) Pitch shift x1
- 18) Pitch shift x2
- 19) Vocal doubler
- 20) Delay + chorus
- 21) Gated + reverb
- 22) Stereo delay + reverb
- 23) Chorus + reverb
- 24) Flanger + reverb

To apply effects on a channel, follow the steps below:

- 01) Turn the **FX level control (54)** clockwise for all channels where the effect should be applied.
- 02) Turn the **FX level control (54)** fully counter clockwise for all other channels.
- 03) Turn the **FX send volume control (26)** clockwise and make sure that the **FX clip LED indicator (34)** is not clipping. The FX processor needs a sufficient input signal, but the signal should not reach clipping level to avoid distortion.
- 04) Turn the **program control knob (32)** to select an internal effect. The selected internal effect is shown on the **7-segment display (35)**.
- 05) Press the **program control knob (32)** to confirm the selection. The number in the **7-segment display (35)** stops blinking when the selection is confirmed.
- 06) Turn the **program adjustment knob (32)** to adjust the parameters of the effect.
- 07) Adjust the **FX level control (54)** as necessary for all channels where the effect is active.
- 08) Make sure that the **FX return channel level fader (38)** is open.

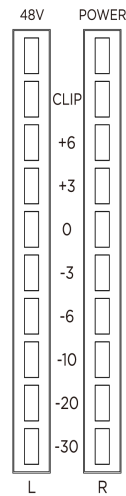
5.7.1. Using a Footswitch

A footswitch (not included) can be connected to the **6,3 mm TS footswitch connector IN (03)** of the GIG-123 12 Channel Mixer V2. The footswitch can be used as an external mute button for the internal effects (see [5.7. Internal Effects](#)).

- Press and hold the button on the footswitch to mute the active effect. The **mute LED indicator (30)** illuminates red.
- Release the button on the footswitch to stop muting the effects.

5.8. LED output VU meters

The GIG-123 12 Channel Mixer V2 has 2 **LED output VU meters (20)** to indicate the levels of the left and right output channels of the device.



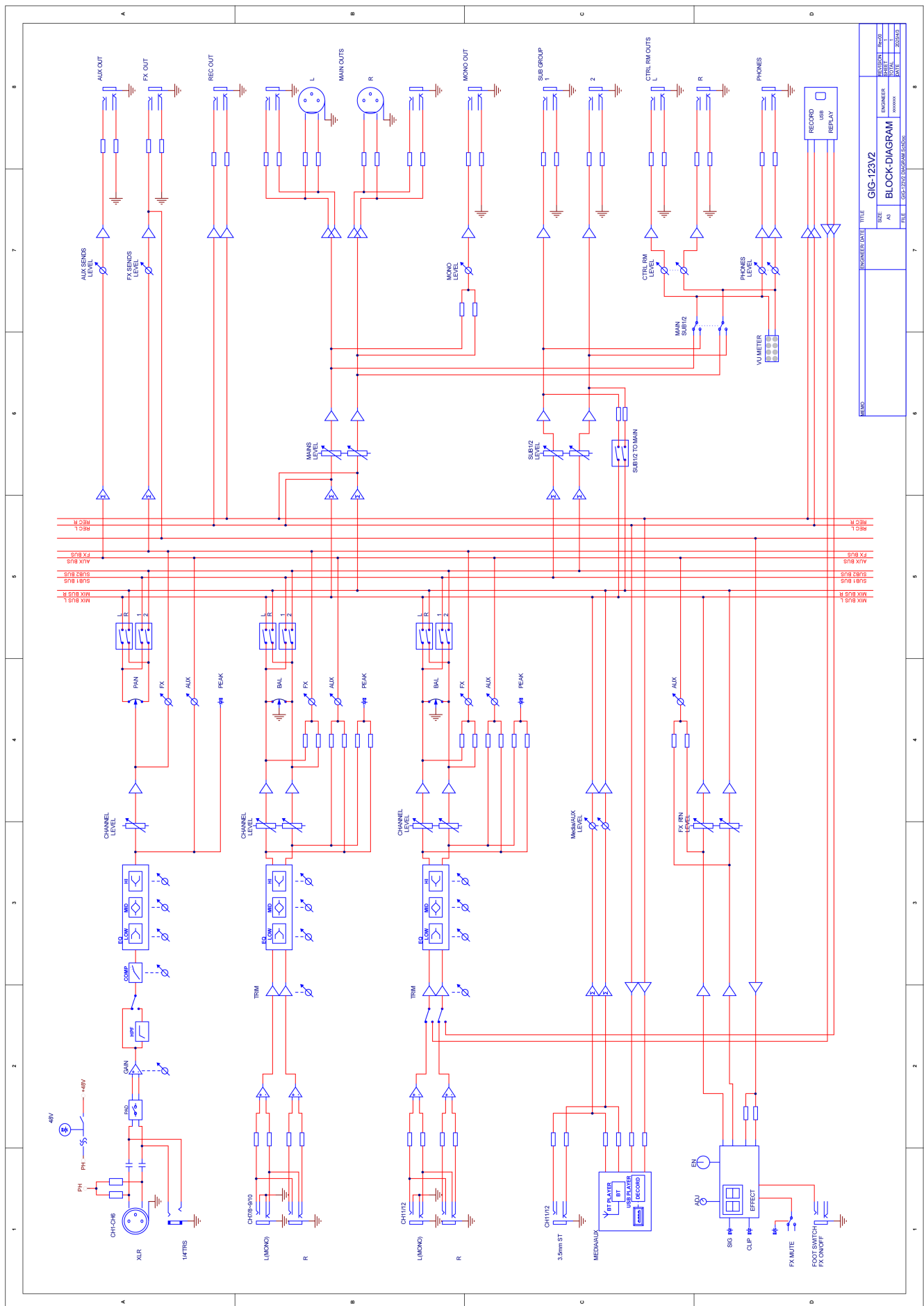
The LEDs have the following functions:

48V	Illuminates red when 48 V phantom power is applied to channel 1–6 with the 48 V phantom power button (02)
POWER	Illuminates blue when the device is powered on
CLIP	Illuminates red for the left or right channel when the input signal is clipping
L and R	Illuminate green and yellow to indicate the output level of the respective channel (-30 to +6 dB)

Press the **meter mode button (22)** to change for which channels the output is displayed with the L and R indicators:

- Left and right main channels (button raised)
- Subgroup 1/2 channels (button pressed)

5.9. Block Diagram



6. Troubleshooting

This troubleshooting guide contains solutions to problems which can be carried out by an ordinary person. The device does not contain user-serviceable parts.

Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

Refer servicing to instructed or skilled persons. Contact your Highlite International dealer in case the solution is not described in the table.

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	Make sure that the device is connected to power supply and the cables are plugged in
No sound	The fader/level/gain controls are set to minimum	Increase the fader/master/level/gain controls (see 5.2. Control Elements on page 25)
	Input device volume is off/low	Make sure that the input device is not muted and the volume is turned up
	Bad connections	Make sure that the connections between the input device and the GIG-123 12 Channel Mixer V2 are correct
No internal FX in the mix	Internal FX are muted	Make sure that the mute button (29) is not pressed
The input device is not heard in the mix	The channel is not included in the main audio mix or subgroup mix	Make sure that the send buttons for the channel are set correctly to send the channel to the main audio mix or subgroup mix (see 5.2. Control Elements on page 25)
The device does not stream sound	There is no connection to the streaming source device	Make sure that the BT functionality on the streaming device is turned on and the devices are paired
	The device is still paired to a different streaming source device	Terminate the previous connection and pair the device with the current streaming source device (see 5.4. BT Connection on page 27)
	The streaming source device is out of range	Move the streaming source device closer or remove any obstructions between the device and the streaming source device
	Streaming source volume is low/off	Make sure that the streaming source device is not muted and the volume is turned up

7. Maintenance

7.1. Preventive Maintenance

**Attention**

Before use, examine the device visually for any defects.

Make sure that:

- The housing is not damaged.
- The power cable is not damaged and does not show any material fatigue.

7.1.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

- 01) Disconnect the device from the electrical power supply.
- 02) Allow the device to cool down for at least 5 minutes.
- 03) Clean the device with a soft, lint-free cloth.

**Attention**

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.

7.2. Corrective Maintenance

The device does not contain user-serviceable parts. Do not open the device and do not modify the device.

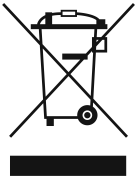
Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

8. Deinstallation, Transportation and Storage

- Use the original packaging to transport the device, if possible.
- Clean the device before storing (see [7.1.1. Basic Cleaning Instructions](#) on page 37).
- Store the device in the original packaging, if possible.

9. Disposal

Correct disposal of this product



Waste Electrical and Electronic Equipment

This symbol on the product, its packaging or documents indicates that the product shall not be treated as household waste. Dispose of this product by handing it to the respective collection point for recycling of electrical and electronic equipment. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. For more detailed information about recycling of this product contact the local authorities or the authorized dealer.

10. Approval



Hereby, Highlite International declares that the device GIG-123 12 Channel Mixer V2, product code D2403, is in compliance with Directive 2014/53/EU (RED – Radio Equipment Directive).

The full text of the EU declaration of conformity is available on the respective product page on the website of Highlite International (www.highlite.com).

DAP