



ICOA[®] PRO SUB 21 A

POWERED 21" BASS REFLEX PA SUBWOOFER

LDICOASUB21APRO;

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1 | DOCUMENT VERSION AND REVISIONS

Version Number	Version	Changes	Publishing Date
1	This document	Original	April 2025

2 | INTRODUCTION

2.1 YOU MADE THE RIGHT CHOICE!

This product has been developed and manufactured to the highest quality standards to ensure many years of problem-free operation. Find further information about LD Systems on our website:

<https://www.ld-systems.com/>

2.2 CONTACTS

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2.3 LINK TO THE DOWNLOAD CENTRE

You can download some information, such as CAD data or technical data, from the Download Centre. Scan the QR code or click the link to download this information:

[ICOA® PRO SUB 21 A](#)



2.4 VISUALISATION CONVENTIONS IN THIS USER MANUAL

In this manual we use graphical symbols and icons in certain contexts. Find below a table with explanations and use cases of the graphical symbols and icons.

Icon / Symbol	Designation	Context	Explanation / Example
✓	Prerequisite	Tasks	Used in task topics to indicate a prerequisite that must be met before beginning the task.
⇒	Result / Intermediate Result	Tasks	Used in task topics to indicate a result or intermediate result of an action step.
1 Step a) Substep	1 Action Step a) Substep	Tasks	Used in task topics to indicate action steps and substeps.
1	Callout	Graphics; tasks	Text-image reference or labeling of certain functions on the device
[...]	Value range indicator	Technical data; paragraphs; lists	Indicates the range of a value, such as "Compressor ratio: 1:1...20:1 ". Mostly used in tables or callouts.
*	Asterisk	Paragraphs; tables	Indicates additional information in a footnote.
The LIM LED lights up	General User Interface element	Paragraphs; tasks; tables; lists	The words presented in this way represent graphic user interface elements on the device.
PAGE button	Key / Button	Paragraphs; tasks; tables; lists	The words presented in this way represent user interface controls on the device.
<name>	User input	Paragraphs; tasks; tables; lists	The words presented in this way represent required user inputs.
<u>https://adamhall.com</u>	Weblink	Paragraphs; tables; lists	External link to a website

3 | PRODUCT COMPLIANCE

3.1 MANUFACTURER'S DECLARATION

Adam Hall offers a voluntary, EU-wide manufacturer's guarantee of 2 years. The statutory warranty period is not affected by this voluntary guarantee.

You can find our current detailed warranty conditions and limitation of liability at:

<https://www.adamhall.com/manufacturers-declarations-ld-systems>

To request warranty for a product, please contact:

Adam Hall GmbH, Adam-Hall-Str. 1, 61267 Neu Anspach

customerservice@adamhall.com

0049 (0)6081 / 9419-1000.

3.2 DECLARATION OF CONFORMITY

UK
CA

Hereby, Adam Hall Ltd. declares that this product meets the following guidelines (where applicable)

- Electrical Equipment (Safety) Regulations 2016
- Electromagnetic Compatibility Regulations 2016 (SI 2016/1091)
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulation 2012 (SI 2012/3032)
- Radio Equipment Regulations 2017 (SI 2016/2015)

Products that are subject to Electrical Equipment(Safety)Regulation 2016, EMC Regulation 2016 or RoHS Regulation can be requested at info@adamhall.com. Products that are subject to the Radio Equipments Regulations 2017 (SI2017/1206) can be downloaded at <http://www.adamhall.com/compliance>.

FCC STATEMENT



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

CAUTION! RF Exposure Information: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

CAUTION! Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this

equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

ISED STATEMENT

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

4 | SAFETY INSTRUCTIONS

4.1 INTENDED USE

The **ICOA® PRO SUB** is an active 21" subwoofer with app control, intended as sound reinforcement in PA and monitor applications.

This product has been developed for the professional use in the field of event technology. Furthermore it is intended for qualified users with specialist knowledge of event technology only.

The device is intended for mobile applications and not for fixed installations. The device is not suitable for continuous electrical operation.

The device is intended for indoor use only.

It is not suitable for domestic use.

Do not use the product outside the operating conditions as stated in the user manual under Technical Data. Liability for damage and third-party damage to persons and property due to inappropriate use is excluded.

This product is not suitable for children and persons with limited physical, sensory, or mental capabilities or lack of experience and knowledge.

4.2 EXPLANATION OF SAFETY AND WARNING SYMBOLS

Find the following safety and warning symbols on the device, the user manual, or the packaging:



This symbol indicates that you must read the complete user manual before using the product.



This symbol indicates a general hazardous situation.



This symbol indicates hazards that can cause electric shock.



This symbol indicates tripping hazards.



This symbol indicates high sound pressure levels.



This symbol indicates pinching hazards.



This symbol indicates that the product is for indoor use only.



This symbol indicates that the product is not suitable for household use.



This symbol indicates helpful hints or additional information.

4.3

STRUCTURE OF WARNING MESSAGES

In this user manual, warning messages are structured with a safety symbol, a signal word, a hazard description, and instructions on how to avoid injuries or death.

**DANGER**

Indicates a hazardous situation which will result in death or serious injury.

**WARNING**

Indicates a hazardous situation which could result in death or serious injury

**CAUTION**

Indicates a hazardous situation which could result in minor or moderate injury.

**NOTICE**

Indicates situations or conditions that could result in damage to property and/or the environment.

4.4

GENERAL SAFETY



- Read this user manual carefully.
- Keep this user manual for later reference.
- Follow closely the instructions in the user manual.
- This user manual is an integral part of the product. If you sell or pass on the product, you must include this user manual.
- Only use this device according to its intended use.
- This device is for professional use only.
- Observe all safety instructions and warning messages in the user manual, on the device, and on the packaging.
- Devices are subject to continuous further development. If you find discrepancies between the user manual and the device labeling, the information on the device always takes priority.
- Do not remove safety instructions or warning messages from the device.
- Do not open the device.
- Do not modify the device.
- If the device shows any sign of damage, do not use it.
- Do not operate the device with removed or missing covers.
- Do not expose the device to direct sunlight.
- If not further specified in the user manual under Technical Data, do not use the device in ambient temperatures that exceed 40 °C / 104 °F or fall below 0 °C / 32 °F
- Do not use the device in tropical climate.

- Do not use the device above 2000m of altitude.
- Unless otherwise stated, do not use under marine conditions.
- Use only accessories specified by the manufacturer.
- Maintenance and repairs may only be carried out by authorized service personnel.
- Store and transport the device in a dry and safe environment.
- Clean the device on a regular basis. See the user manual for maintenance intervals.
- If the device was exposed to strong temperature changes, such as during transport, do not switch it on immediately. Wait until the device has reached ambient temperature.
- High sound pressure levels may cause hearing damage. Avoid prolonged exposure to high sound pressure levels. Wear hearing protection.
- Risk of hearing damage. Plugging or unplugging devices in the signal chain may cause an audio signal peak. Switch on the loudspeaker as the last device in the signal chain.
- Risk of hearing damage. Switching on or off other devices in the signal chain may cause an audio signal peak. Switch on the loudspeaker as the last device in the signal chain.

4.5

ELECTRICAL SAFETY



- This device is a Class I electrical device. Make sure that the protective conductor is connected to electrical earth. Do not disconnect or bypass the protective conductor.
- Do not bypass the mains fuse.
- Use only mains fuses as specified by the manufacturer.
- Do not use kinked or otherwise damaged power cables.
- Only operate the device on compliant, tested and intact mains power outlets.
- Do not use the device in the vicinity of water. Keep the device away from splashing or dripping water.
- Make sure that the voltage and frequency of the mains power match the values specified by the manufacturer.
- Take suitable measures against overvoltage, such as lightning strikes.
- For devices with a power out connector, make sure the total current consumption of all connected devices does not exceed the value specified by the manufacturer.
- This device is not suitable for continuous current.
- Disconnect the device from all poles before maintenance, repair or extend periods of non-use.
- Permanently connected power cables may only be replaced by a qualified service technician.

4.6

PHYSICAL SAFETY



- Make sure that the device and its stand are securely positioned. Secure against unintentional movement.
- Check all cable routes to prevent tripping accidents.
- Moving components, such as mounting brackets, pose a risk of pinching injuries.

4.7**THERMAL SAFETY**

- Do not install the device near heat sources, such as radiators or ovens.
- Do not block any ventilation openings.
- Unless otherwise stated, keep a minimum clearance of at least 20 centimetres around the device.
- Unless otherwise stated, keep flammable materials, such as paper or wood, at least 50 centimetres away from the device

4.8**WIRELESS SAFETY**

Radio transmitter operation is subject to official regulations. Make sure you adhere to regional guidelines before commissioning.

Radio operation can lead to potentially dangerous effects. Do not use this device in sensitive areas such as:

- Hospitals, health centres or other healthcare facilities that provide patient treatment with skilled personnel and equipment
- Hazardous areas Class I, II and III
- Restricted areas
- Military facilities
- Areas where the use of mobile phones is prohibited, such as aircrafts.



Quality and performance of wireless signal transmissions is dependent on the environmental conditions. All range specifications refer to free-field application with visual contact without interference. Range and signal stability may be influenced by:

- Shielding, such as masonry, metal buildings, or water
- Interference
- High radio traffic, such as strong W-LAN networks
- Electromagnetic radiation, such as LED video walls or dimmers

4.9**DEVICE SAFETY**

- Do not switch the device on and off in quick succession, because this will shorten the device lifetime.
- Loudspeakers generate a magnetic field, even when they are not in use. Devices, such as hard disk drives or cheque cards may be affected by the loudspeaker's magnetic field. Do not set up or transport these devices near the loudspeaker.

5 | PRODUCT DESCRIPTION

5.1 PRODUCT OVERVIEW

The LD Systems **ICOA® PRO SUB** is a powered 21" bass reflex PA subwoofer with app control.

FEATURES:

- 2 XLR inputs and 2 XLR outputs
- App Control

5.2 OPTIONAL ACCESSORIES

Find various accessories for your product in the Adam Hall Shop:

<https://www.adamhall.com/shop>

Accessory	ICOASUB21APRO
ICOA® PRO 12 A Powered coaxial PA loudspeaker	ICOA® PRO 12 A Article number: LDICOA12APRO
ICOA® PRO 15 A Powered coaxial PA loudspeaker	ICOA® PRO 15 A Article number: LDICOA15APRO
Adjustable Speaker Pole with Crank 35 mm to M20, Max. Height: 1645 mm	Gravity® SP 2472 B Article number: GSP2472B
Adjustable Speaker Pole 35 mm to M20, Max. Height: 1400 mm	Gravity® SP 2332 B Article number: GSP2332B
Adjustable Touring Speaker Pole 35 mm to M20, Max. Height: 1400 mm	Gravity® TSP 2332 B Article number: GTSP2332B
Padded protective cover for ICOA® PRO 21 SUB	LD Systems ICOA® SUB 21 PC Article number: LDICOASUB21PROPC
Castor board for ICOA® PRO 21 SUB	LD Systems ICOA® SUB 21 CB Article number: LDICOASUB21PROCB

5.3 DIMENSIONS

Visit the download centre to download the product dimensions as a CAD file.

5.4

TECHNICAL DATA

GENERAL

Article number	LDICOASUB21APRO
Product type	21" Active Subwoofer
Power (Peak)	3000 W
Power (RMS)	1500 W
Amplifier	Class D
Max SPL Peak (Sine Burst)	133 dB
Max SPL Average (Sine Burst)	129 dB
Max SPL Peak (Pink Noise)	136 dB
Frequency response (-10dB)	29 Hz...120 Hz

AMBIENT CONDITIONS

Article number	LDICOASUB21APRO
Ambient temperature (operating)	0 °C...40 °C
Relative humidity	< 80 %
Protective circuits	DC protection, Short circuit, Multiband limiter, Over-heat

BLUETOOTH®

Article number	LDICOASUB21APRO
Bluetooth® version	5.1
Bluetooth® functions	Data

INPUTS

Article number	LDICOASUB21APRO
Line inputs	2
Line input connectors	XLR

OUTPUTS

Article number	LDICOASUB21APRO
Line outputs	2
Line output connectors	XLR

SIGNAL PROCESSING

Article number	LDICOASUB21APRO
DSP model	SysCore®
AD/DA converter bit depth	24 Bit
AD/DA converter sampling frequency	48 kHz
Signal-to-noise ratio (SNR)	108 dB

BASS DRIVER

Article number	LDICOASUB21APRO
Woofer size	21"
Woofer outside diameter	547 mm
Woofer voice coil (inch)	4.5"
Woofer magnet	Neodymium
Woofer brand	Lavoce Custom Made

MAINS OPERATION

Article number	LDICOASUB21APRO
Operation voltage	AC 100 V...240 V 50 Hz...60 Hz
Power consumption	max. 1300 W
Power supply	SMPS
Power connector	PowerCON®
Fuse	T 10 AH / 250 V

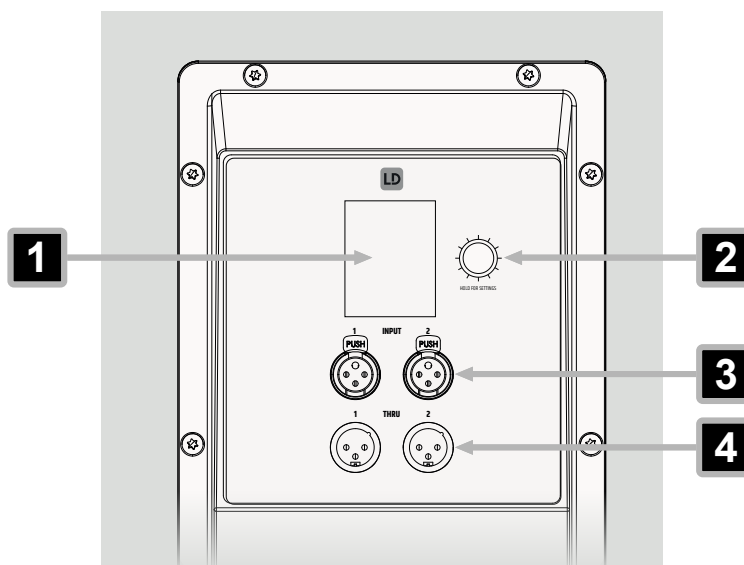
HOUSING

Article number	LDICOASUB21APRO
Housing colour	Black
Housing material	Multiplex birch
Number of handles	8
Flange	M20
Cooling	Passive, Cooling fins

DIMENSIONS AND WEIGHT

Article number	LDICOASUB21APRO
Dimensions (W x H x D)	565.5 mm x 700 mm x 698.8 mm
Weight	57 kg

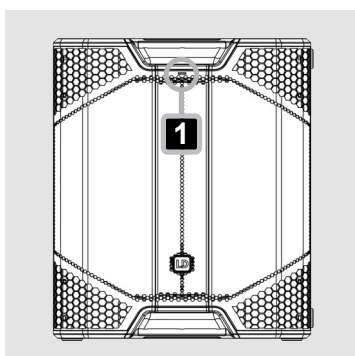
5.5 USER INTERFACE



- 1** **LC Display** - Main graphic colour display
- 2** **Rotary-Push Encoder (RPE)** - Controls the main menu items. Push and hold 2 seconds to access the settings.
- 3** **INPUT 1 / 2** - Line input sockets (balanced 3-pin XLR)
- 4** **THRU 1 / 2** - Line output sockets (balanced 3-pin XLR). Outputs the corresponding input signal.

5.6 FRONT LED

Set the function of the front LED **1** via the **ICOA® PRO** mobile app:



- **Limit (Default):**
White LED when the device is switched on.
Red LED when the limiter is active.
- **On:**
White LED when the device is switched on.
- **Off:**
LED is off permanently.

6 | PREPARATION

6.1 SCOPE OF DELIVERY

- Device
- Mains power cable
- Safety Compliance Information (en, de, fr, it, pl, es)
- Quick Start Guide (en)

7 | INSTALLATION

7.1

ATTACHING A SPEAKER POLE



WARNING

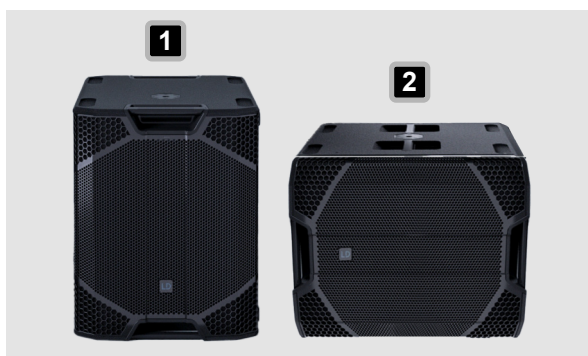
Falling object

Risk of serious injury

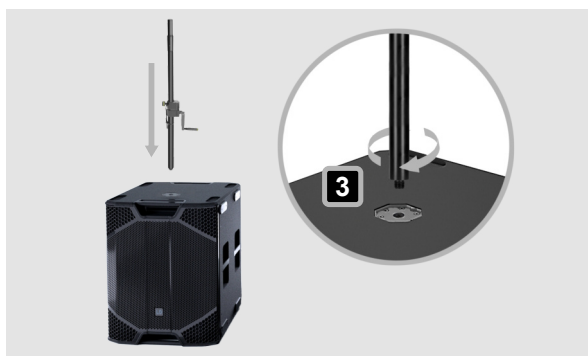
- a. Observe all regional safety regulations concerning overhead loads.
- b. Use only speaker poles with a suitable tube diameter.
- c. Make sure that the speaker pole supports the weight of the device.
- d. Make sure that the device with attached speaker pole is securely positioned on a level surface.



The **ICOA® PRO SUB** has two M20 flanges. One on the top and one on the left-hand side.



✓ You have securely placed the **ICOA® PRO SUB** upright **1** or sideways **2**.



1 Screw in the M20 speaker pole. **3**



Follow the instructions of the satellite loudspeaker and the speaker pole.

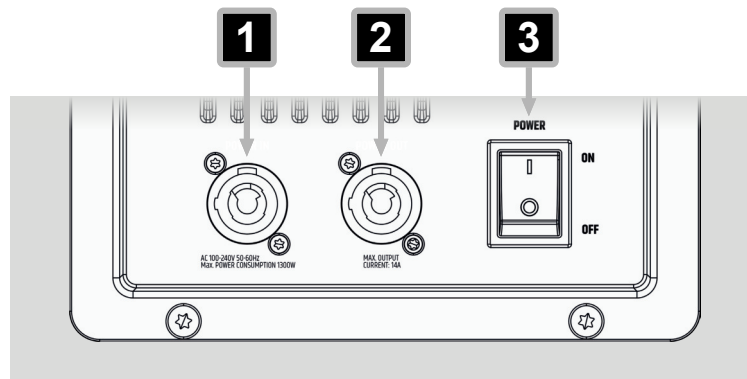
2 Lift and place the satellite loudspeaker onto the speaker pole. **4**

See also:
Optional Accessories [▶ 16]

8 | OPERATION

8.1 POWER SUPPLY

8.1.1 POWER CONNECTIONS



- 1** Power In - Device power socket
- 2** Power Out - Power output socket
- 3** POWER - On / Off switch

8.1.2 CONNECTING A MAINS POWER CABLE



CAUTION

Mains voltage

Risk of electric shock

- a. Do not use kinked or damaged mains power cables.



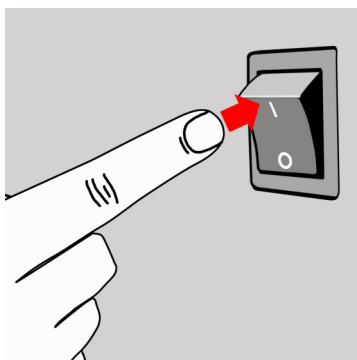
NOTICE

Damage to the Device

- a. Make sure that the voltage of the mains power socket matches the device operating voltage.
- b. Use only supplied power cables or original Neutrik powerCON® XX cables. Otherwise you must not plug or unplug the device under load.

- 1** Plug the device power connector into the device. Make sure the bayonet connector is positioned correctly.
- 2** Turn the bayonet connector clockwise to lock it.
- 3** Plug the mains power connector into the mains power socket.

8.1.3 TURNING THE DEVICE ON OR OFF



- 1** Flip the switch from the  to the  position.
 ⇒ The display turns on and the device boots.
 ⇒ After a few seconds, the device is operational.
- 2** Flip the switch from the  to the  position.
 ⇒ The device turns off.

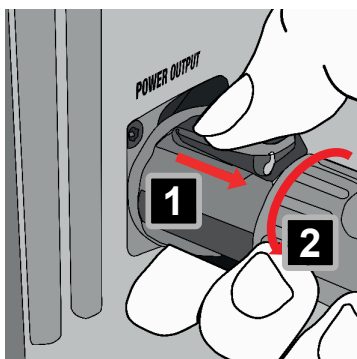
8.1.4 DISCONNECTING A MAINS POWER CABLE



NOTICE

Damage to the Device

- a. Make sure that the voltage of the mains power socket matches the device operating voltage.
- b. Use only supplied power cables or original Neutrik powerCON® XX cables. Otherwise you must not plug or unplug the device under load.



- 1** Disconnect the mains power connector of the mains power cable from the mains power socket.
- 2** Pull the locking lever of the bayonet connector backwards and hold it. **1**
- 3** Turn the bayonet connector anticlockwise. **2**
- 4** Pull the bayonet connector out of the socket.

8.2

NAVIGATING THE DEVICE

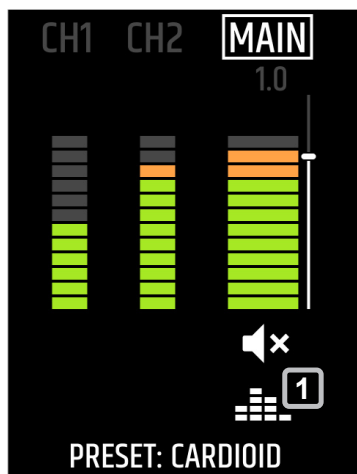
8.2.1

USING THE ROTARY-PUSH ENCODER

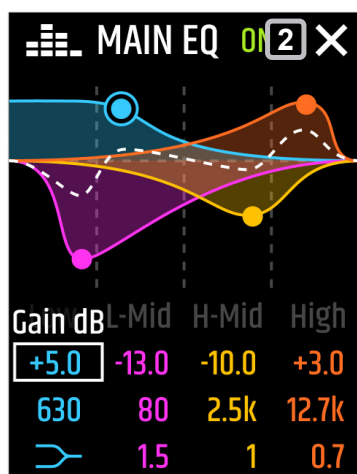
Use the **rotary-push encoder (RPE)** to access the menu items on the **ICOA® PRO**. Find the procedure to access the **MAIN** channel **EQ** below as an example. All other main screen menu items follow the same structure.



The menu follows a left to right and top to bottom grid structure. When you reach the bottom right menu item, the grid starts again at the top left. The cursor jumps back to the **MAIN** channel after approximately 10 seconds of inactivity.



- 1 In the main screen, turn the **RPE** clockwise until  is highlighted. **1**
- 2 Push the **RPE** to access the **MAIN EQ** sub menu.



⇒ The **MAIN EQ** screen appears.

- 3 Adjust the **EQ**.
- 4 Turn the **RPE** until  is highlighted. **2**
- 5 Push the **RPE** to close the **MAIN EQ** screen.



⇒ The **MAIN EQ** is displayed in colour **3** to indicate that settings have been made in the corresponding equaliser.

8.2.2 ACCESSING THE SETTINGS SECTION

You can access the **SETTINGS** section from any grid position in the main screen.

✓ The main screen is displayed.

1 Push and hold the **rotary-push encoder (RPE)** for approximately 2 seconds.

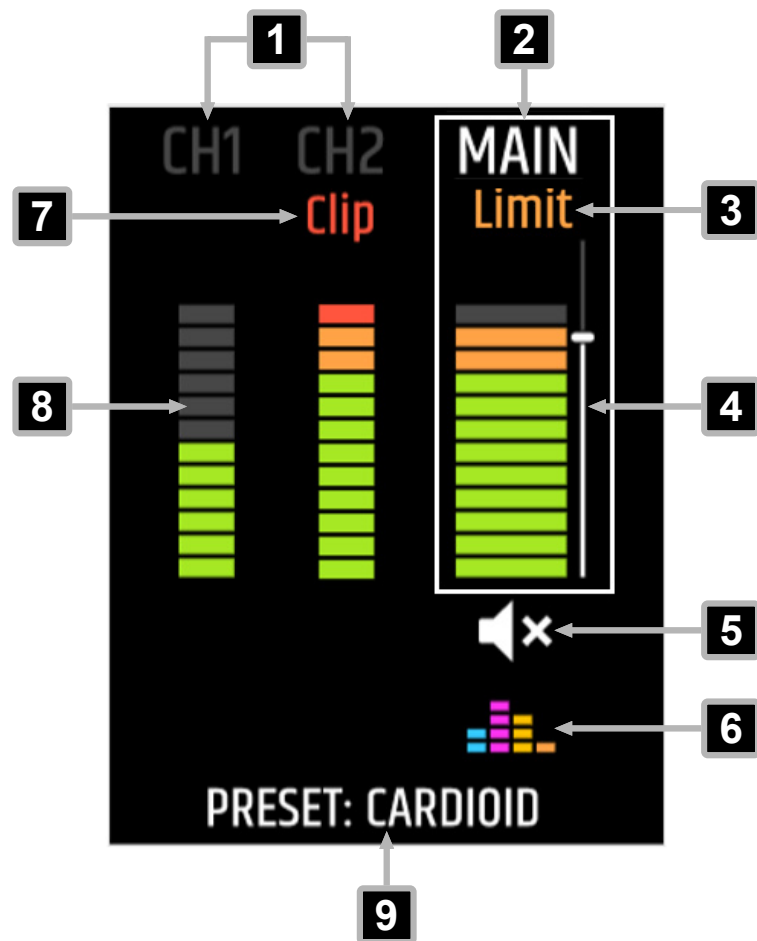
⇒ The **SETTINGS** section appears.

8.3

DEVICE DISPLAY OVERVIEWS

8.3.1

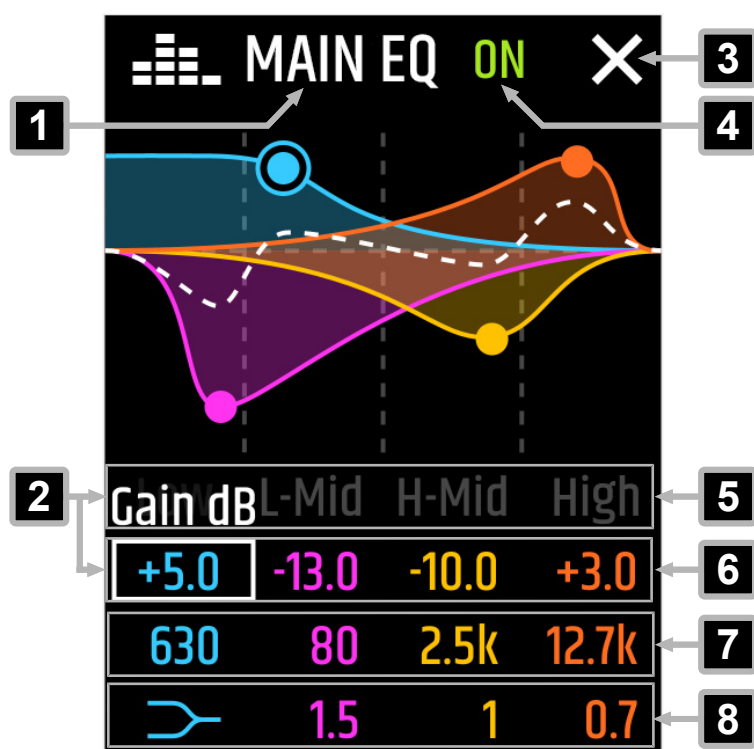
MAIN SCREEN



- 1** **CH1 / CH2** - Indicates the input channel names
- 2** **MAIN** - Indicates the main channel name
- 3** **Limit** - Indicates that the main channel limiter is active
- 4** **MAIN Channel Fader** - Adjusts the main channel output volume
- 5** **Mute** - Toggles mute on / off
- 6** **Equaliser** - Opens the equaliser. If the equaliser is flat, the icon is white.
- 7** **PRESET** - Indicates the currently used equaliser preset. Select to access the **EQ Preset** screen.
- 8** **Metering** - 12 segment channel metering
- 9** **Clip** - Indicates that the corresponding input channel is clipping

8.3.2

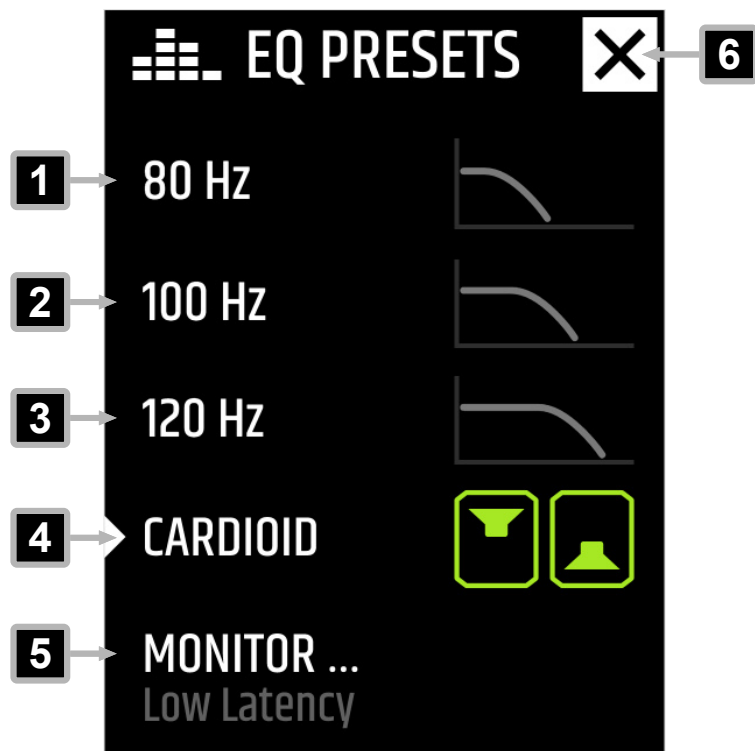
EQ SECTION OVERVIEW



- 1** **Channel Name** - Indicates the channel name
- 2** **Selected Parameter** - Indicates the selected parameter
- 3** **X** - Closes the section
- 4** **ON / OFF** - Toggles the equaliser on / off
- 5** **Equaliser Band** - Indicates the corresponding equaliser band (**Low, L-Mid, H-Mid, High**)
- 6** **Gain** - Adjusts the gain of the selected equaliser band
- 7** **Frequency** - Adjusts the frequency of the selected equaliser band
- 8** **Quality** - Adjusts the quality of the selected equaliser band (lowshelf, highshelf)

8.3.3

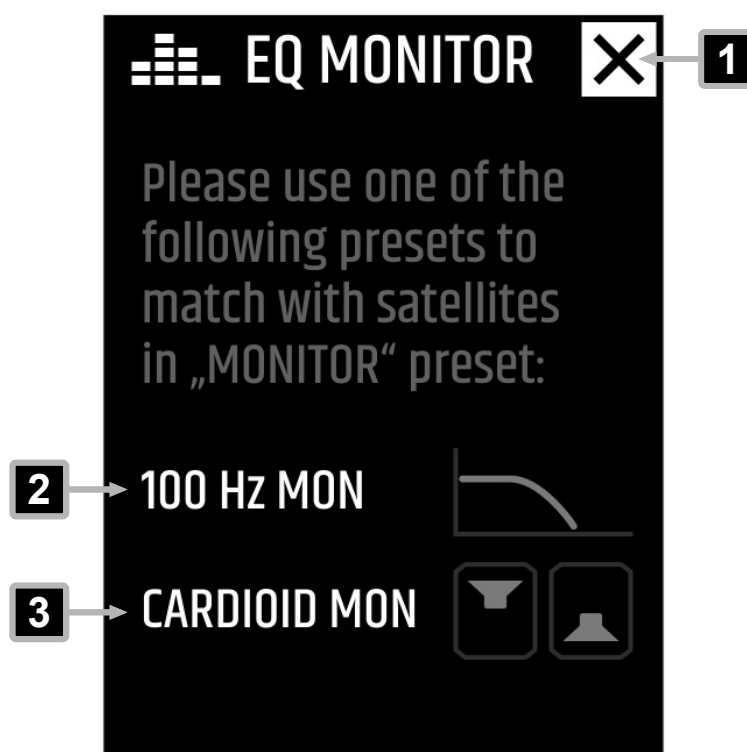
EQ PRESETS SECTION OVERVIEW



- 1** **80 Hz** - Applies an 80 Hz highcut filter to the signal
- 2** **100 Hz** - Applies a 100 Hz highcut filter to the signal
- 3** **120 Hz** - Applies an 120 Hz highcut filter to the signal
- 4** **CARDIOID** - Toggles the cardioid setting on / off. When the cardioid setting is activated, the cardioid loudspeaker symbol is highlighted green.
- 5** **MONITOR** - Opens the **EQ MONITOR** screen
- 6** **X** - Closes the section

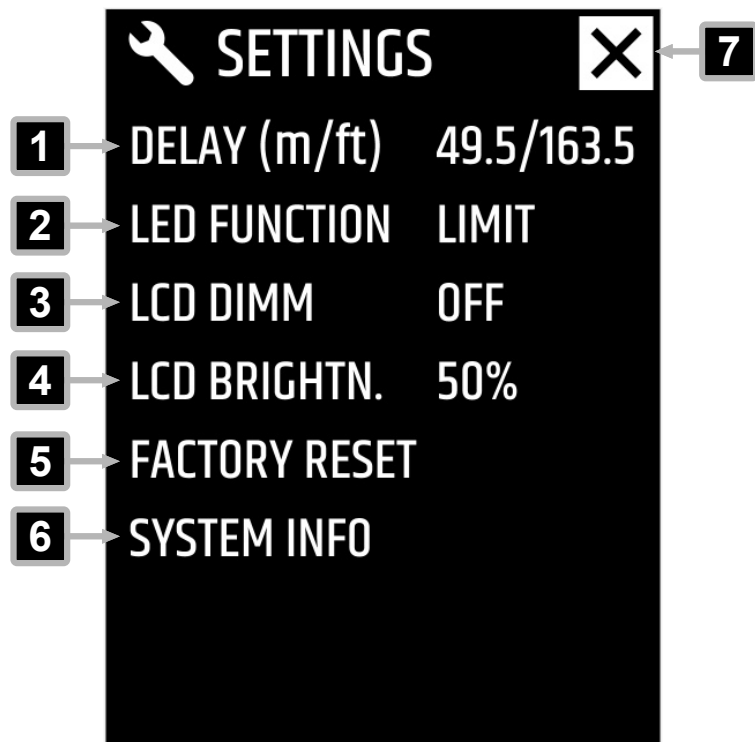
8.3.4

EQ MONITOR SECTION OVERVIEW

**1****X** - Closes the section**2****100 Hz MON** - Applies a 100 Hz highcut filter to the signal**3****CARDIOID MON** - Toggles the cardioid setting on / off. The cardioid loudspeaker symbol is highlighted green, when the cardioid setting is activated.

8.3.5

SETTINGS SECTION OVERVIEW



- 1** **DELAY (m/ft)** - Adjusts the signal delay of the **ICOA® PRO**
- 2** **LED FUNCTION** - Toggles between the functions of the front LED (**LIMIT, ON, OFF**)
- 3** **LCD DIMM** - Toggles the display dimming on / off
- 5** **LCD BRIGHTN.** - Adjusts the display brightness (50 %...100 %)
- 5** **FACTORY RESET** - Resets the device to factory settings
- 6** **SYSTEM INFO** - Displays the system information (product type, firmware version, DSP version)
- 7** **X** - Closes the section

8.4 ICOA® PRO MOBILE APP

8.4.1 DOWNLOADING THE MOBILE APP



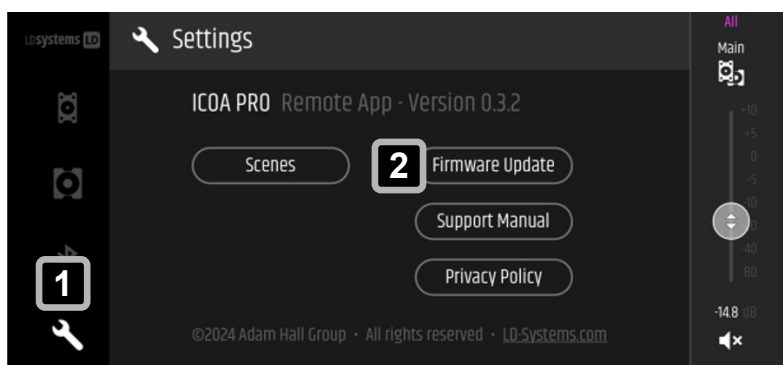
Download the app
for full functionality!

Visit the Apple App Store or the Google Play Store to download the device app for advanced functionality and features.

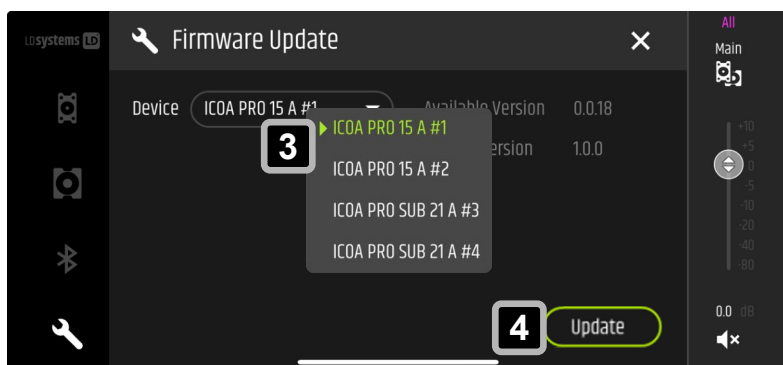
8.4.2 UPDATING THE FIRMWARE



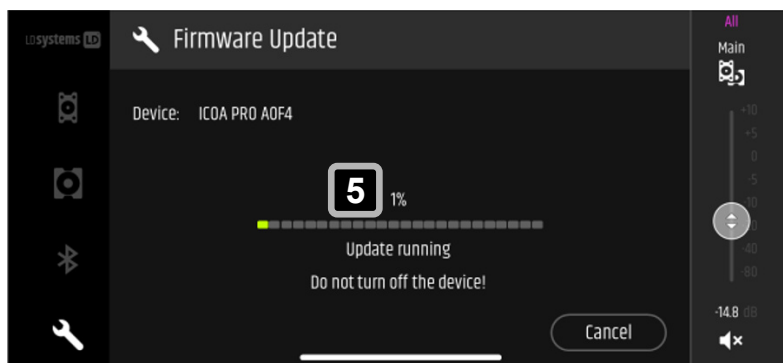
For full functionality of the device, update the firmware before commissioning.



1 In the **Settings** section **1**, tap on **Firmware Update** **2** to open the **Firmware Update** screen.



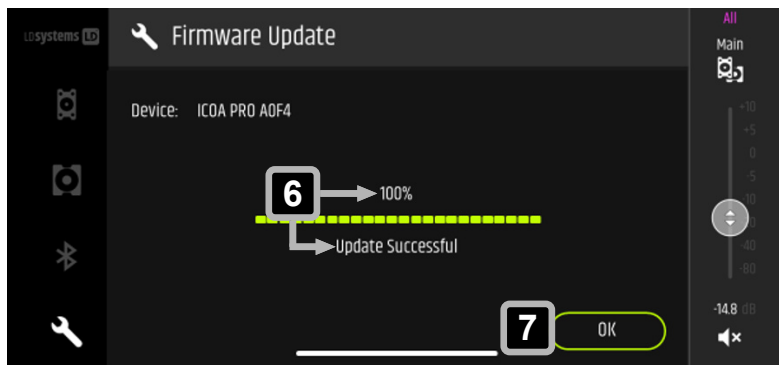
2 Under **Device**, select the **ICOA® PRO** you want to update from the drop-down menu **3**.
3 Tap on **Update** **4** to start the update process.



4 The **Update running** progress bar opens. **5**



When using multiple devices in your setup, you must update each device individually.

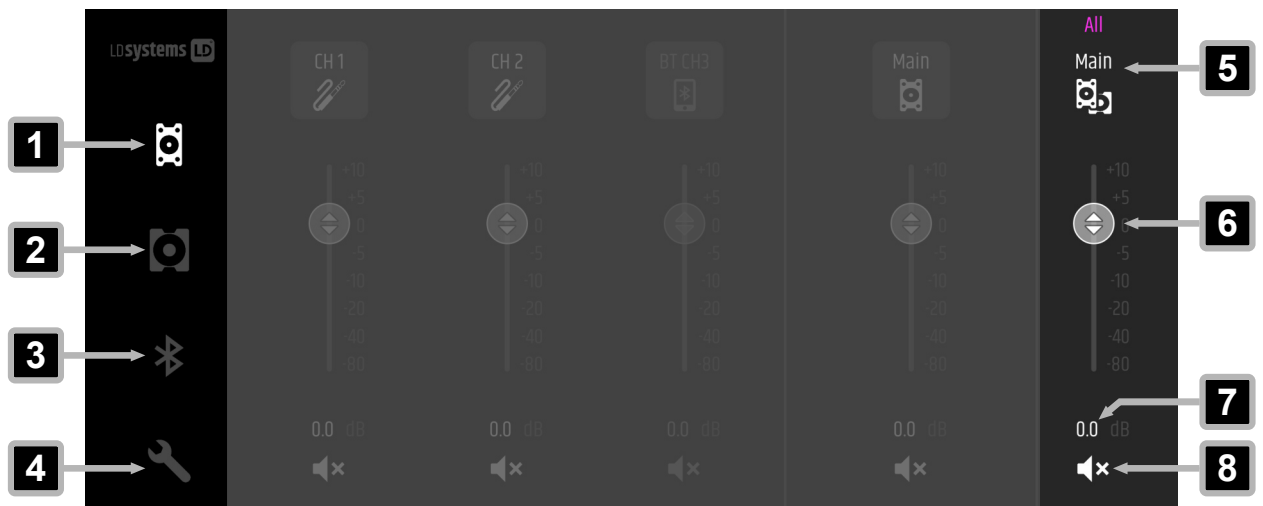


5 When the firmware update was successful, the progress bar shows **100%** and **Update Successful**. **6**

6 Tap on **OK** **7** to complete the firmware update.

8.4.3 APP OVERVIEWS

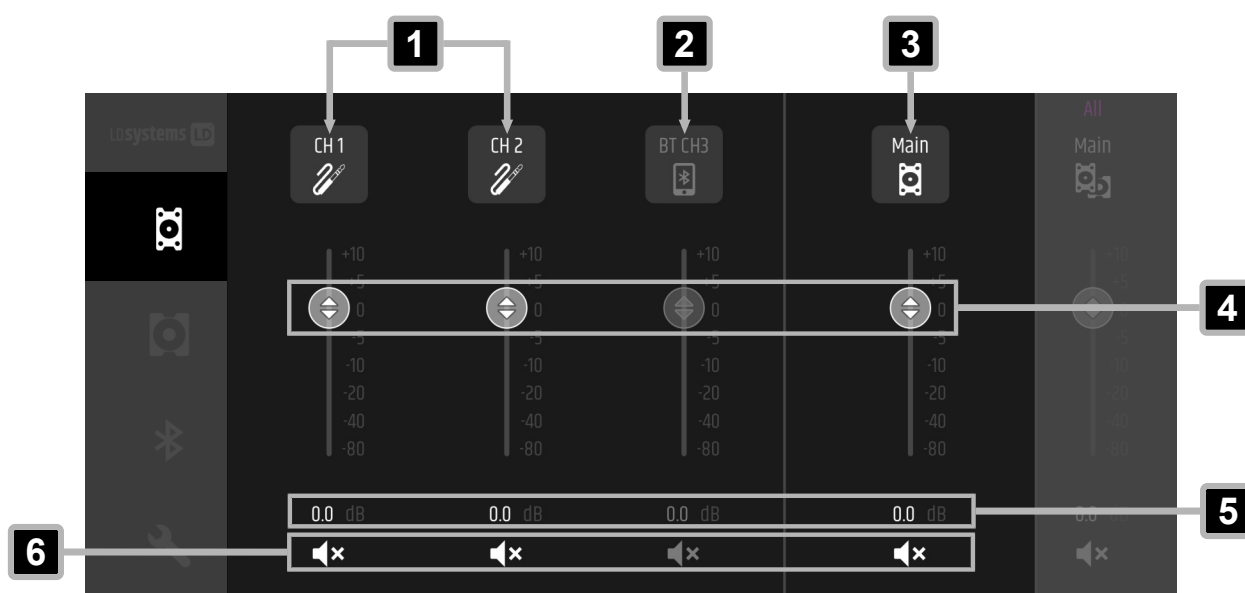
8.4.3.1 SIDEBARS SECTION OVERVIEW



- 1** **Main Section** - Opens the section to control input and output channels of main loudspeakers
- 2** **Subwoofer Section** - Opens the section to control subwoofers
- 3** **Bluetooth® Section** - Opens the Bluetooth® section
- 4** **Settings Section** - Opens the settings section
- 5** **Main** - Indicates the main output channel name
- 6** **Main Channel Fader** - Adjusts the volume of the main output (-80 dB...+10 dB)
- 7** **Fader Value** - Indicates the main output channel fader value in dB (-80 dB...+10 dB)
- 8** **Mute** - Toggles mute on / off

8.4.3.2

MAIN SECTION OVERVIEW



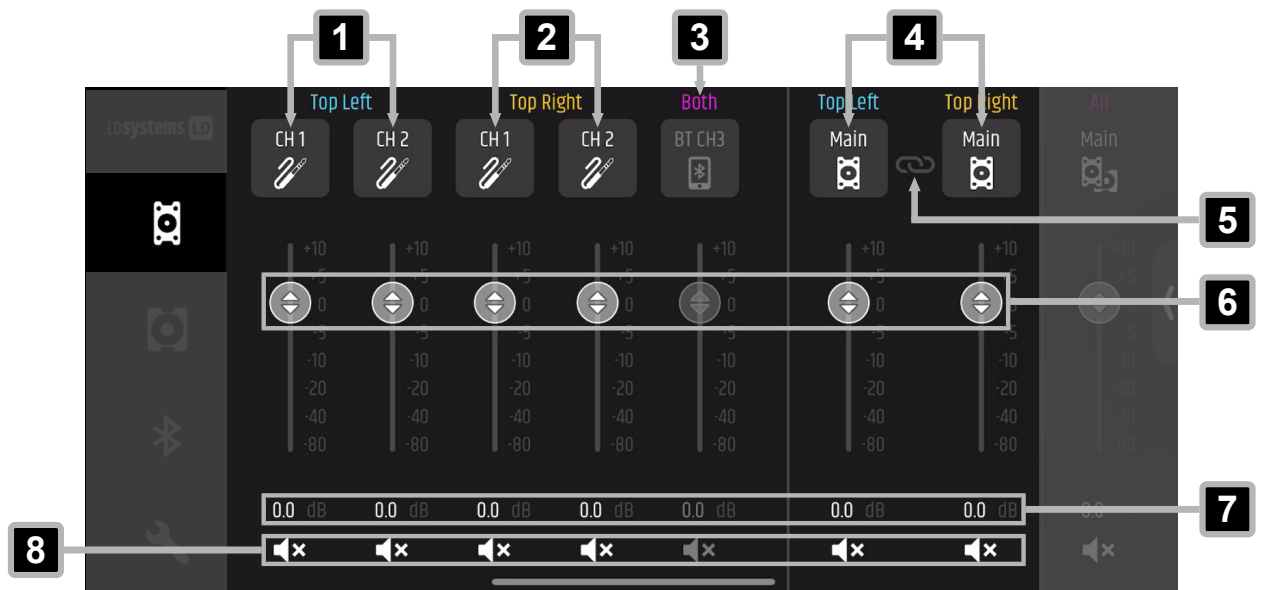
- 1** **Input Channels** - Indicates the input channels of the **ICOA® PRO**. Tap to open the channel settings.
- 2** **Bluetooth® Channel** - Indicates the Bluetooth® channel. Tap to open the channel settings.
- 3** **Main Channel** - Indicates the main output of the **ICOA® PRO**. Tap to open the channel settings.
- 4** **Faders** - Adjust the volume of the corresponding channel (-80 dB...+10 dB)
- 5** **Fader Values** - Indicate the corresponding fader level in dB (-80 dB...+10 dB)
- 6** **Mute** - Toggles mute on / off

8.4.3.3

MAIN SECTION OVERVIEW IN TRUE WIRELESS STEREO (TWS)



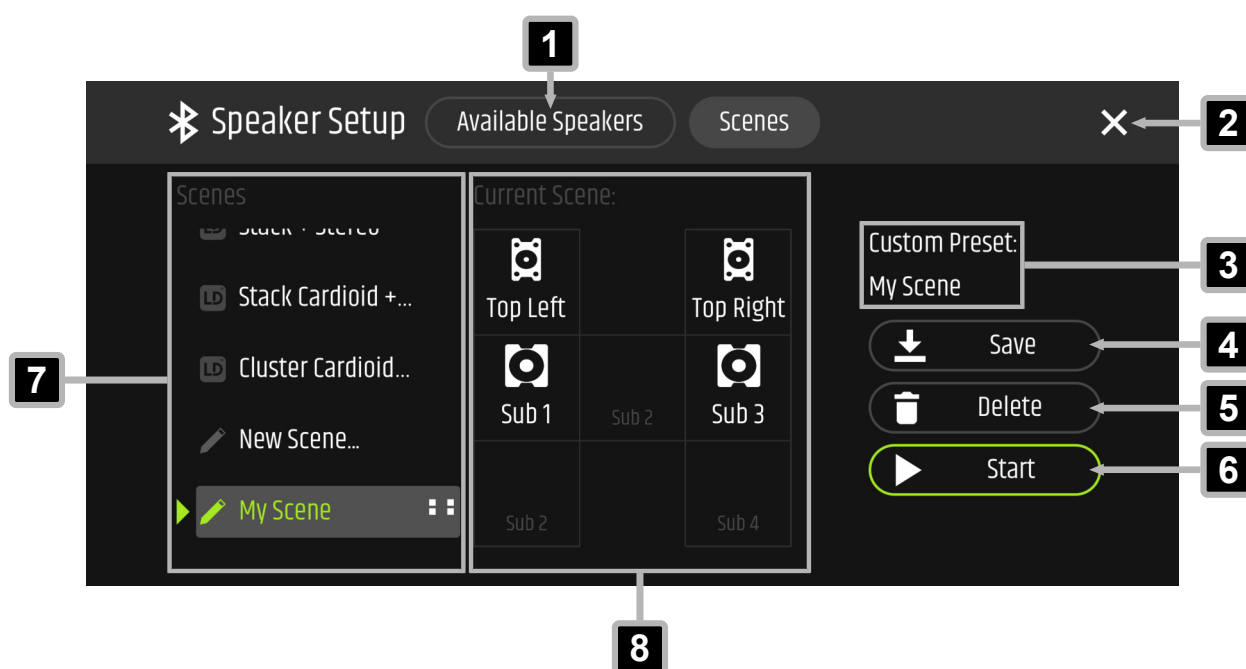
When using True Wireless Stereo (TWS), the main section shows the inputs and main channels of both **ICOA® PRO**.



- 1** **Top Left** - Indicates the input channels of the **ICOA® PRO** configured as **Top Left**. Tap to open the channel settings.
- 2** **Top Right** - Indicates the input channels of the **ICOA® PRO** configured as **Top Right**. Tap to open the channel settings.
- 3** **Bluetooth® Channel** - Indicates the Bluetooth® channel. Tap to open the channel settings.
- 4** **Top Left / Top Right** - Indicates the main outputs for the **ICOA® PRO** configured as **Top Left / Top Right**. Tap to open the channel settings.
- 5** **Main Coupling** - Activates the main coupling for the main channels. When main coupling is active, the chain icon is highlighted white.
- 6** **Faders** - Adjust the volume of the corresponding channel (-80 dB...+10 dB)
- 7** **Fader Values** - Indicate the corresponding fader level in dB (-80 dB...+10 dB)
- 8** **Mute** - Toggles mute on / off

8.4.3.4

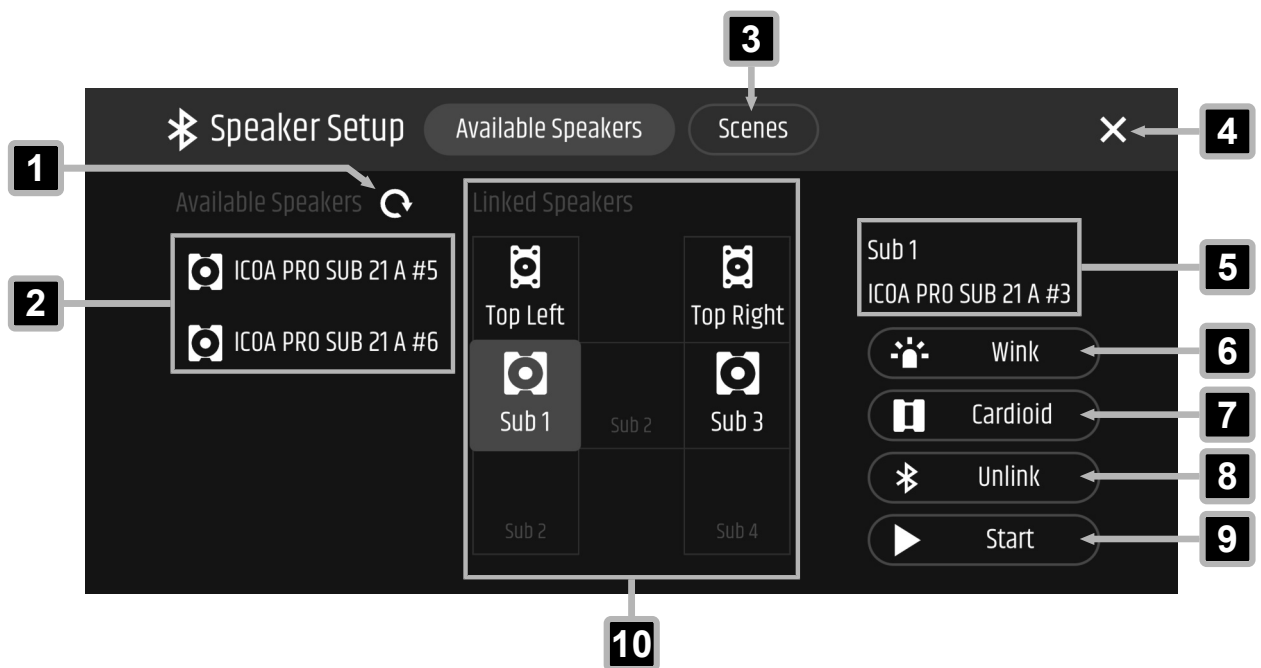
SCENES SECTION OVERVIEW



- 1 Available Speakers** - Opens the **Available Speakers** section
- 2** **X** - Closes the section
- 3 Preset Information** - Indicates the name of the selected scene
- 4 Save** - Saves the selected scene
- 5 Delete** - Deletes the selected scene
- 6 Start** - Activates the scene and deploys settings to connected loudspeakers
- 7 Scenes** - List of available scenes. The white squares to the right of the selected scene name show the loudspeaker configuration for which the respective scene contains settings.
- 8 Current Scene / Scene Preview** - Indicates the current configuration of the scene. Under **Scenes** **7**, select a scene to show a preview in this area.

8.4.3.5

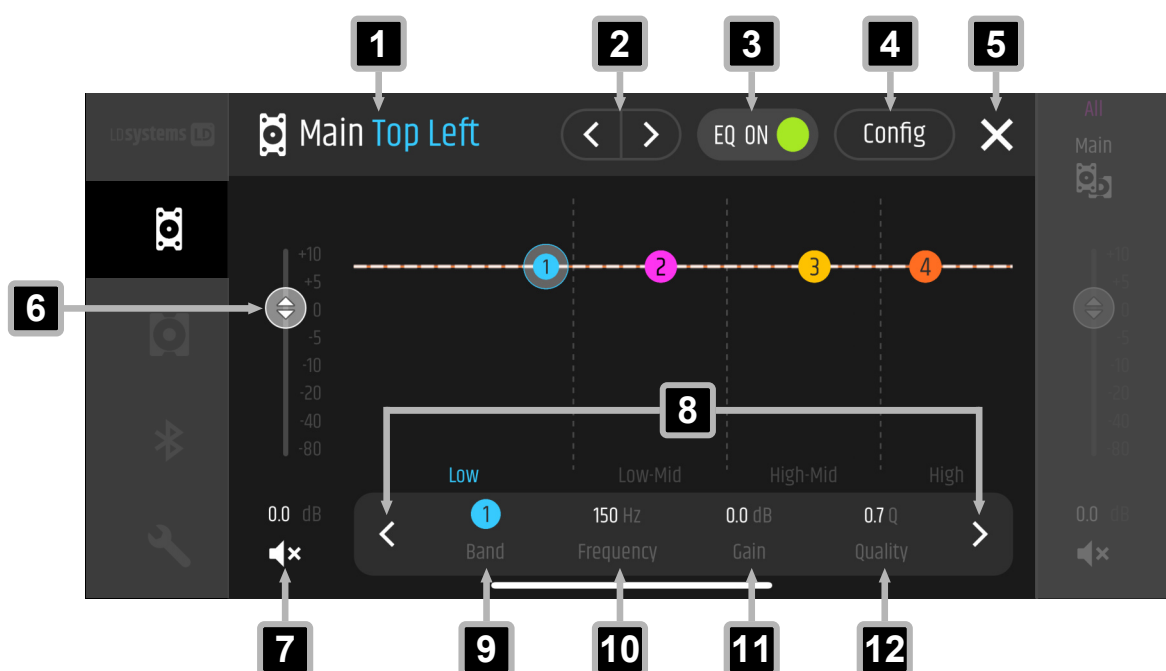
AVAILABLE SPEAKERS SECTION OVERVIEW



- 1** **Refresh** - Updates the list of available loudspeakers
- 2** **Available Speakers** - List of available loudspeakers
- 3** **Scenes** - Opens the scenes section
- 4** **X** - Closes the section
- 5** **Loudspeaker Information** - Indicates the grid position and the name of the selected loudspeaker
- 6** **Wink** - Flashes the front LED
- 7** **Cardioid** - Sets a selected subwoofer as cardioid subwoofer
- 8** **Unlink** - Cancels the link for the selected loudspeaker
- 9** **Start** - Deploys the settings to the selected loudspeakers and closes the section
- 10** **Linked Speakers Grid** - Indicates the linked loudspeakers on the respective grid position

8.4.3.6

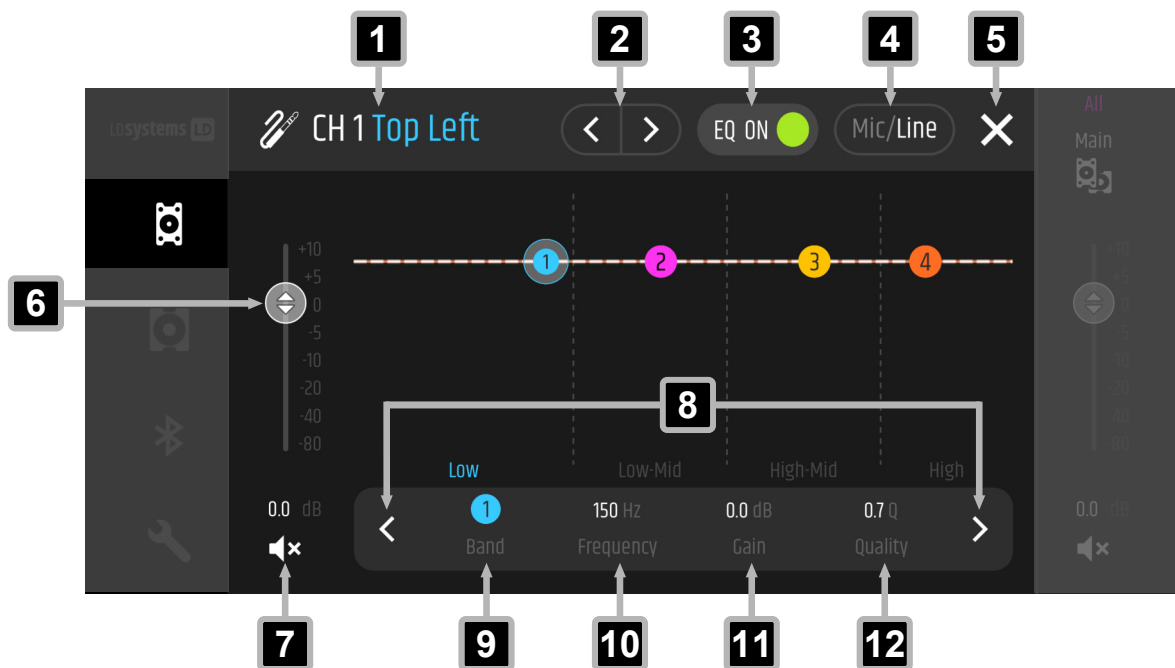
MAIN EQ SECTION OVERVIEW



- 1** **Channel Name** - Indicates the input channel name of the selected channel
- 2** **Channel Selection** - Choose **<** or **>** to switch between channels
- 3** **EQ ON / EQ OFF** - Toggles the equaliser on / off
- 4** **Config** - Opens the configuration for the corresponding channel
- 5** **X** - Closes the section
- 6** **Channel Fader** - Adjusts the channel volume
- 7** **Mute** - Toggles mute on / off
- 8** **EQ Band Selection** - Choose **<** or **>** to switch between equaliser bands
- 9** **Band** - Indicates the selected equaliser band
- 10** **Frequency** - Indicates the set frequency for the respective equaliser band
- 11** **Gain** - Indicates the set gain for the respective equaliser band
- 12** **Quality** - Indicates the set quality for the respective equaliser band

8.4.3.7

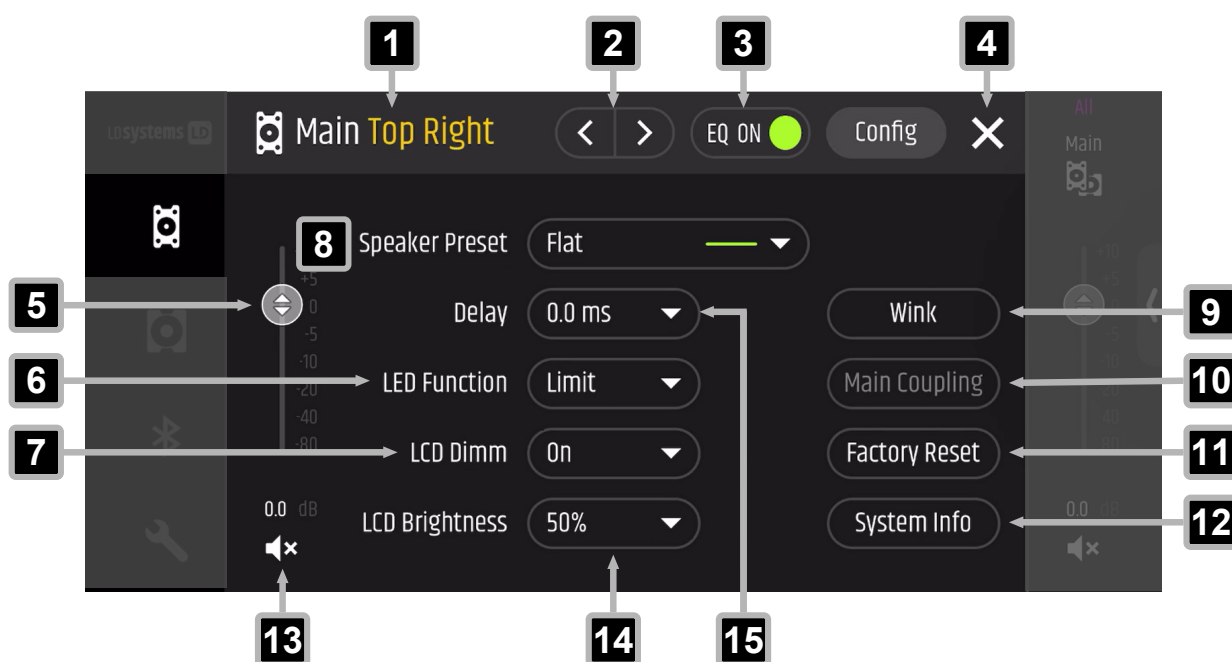
CHANNEL EQ SECTION OVERVIEW



- 1** **Channel Name** - Indicates the input channel name of the selected channel
- 2** **Channel Selection** - Choose **<** or **>** to switch between channels
- 3** **EQ ON / EQ OFF** - Toggles the equaliser on / off
- 4** **Input type** - Toggles the input type (**Mic**, **Line**)
- 5** **X** - Closes the section
- 6** **Channel Fader** - Adjusts the channel volume
- 7** **Mute** - Toggles mute on / off
- 8** **EQ Band Selection** - Choose **<** or **>** to switch between equaliser bands
- 9** **Band** - Indicates the selected equaliser band
- 10** **Frequency** - Indicates the set frequency for the respective equaliser band
- 11** **Gain** - Indicates the set gain for the respective equaliser band
- 12** **Quality** - Indicates the set quality for the respective equaliser band

8.4.3.8

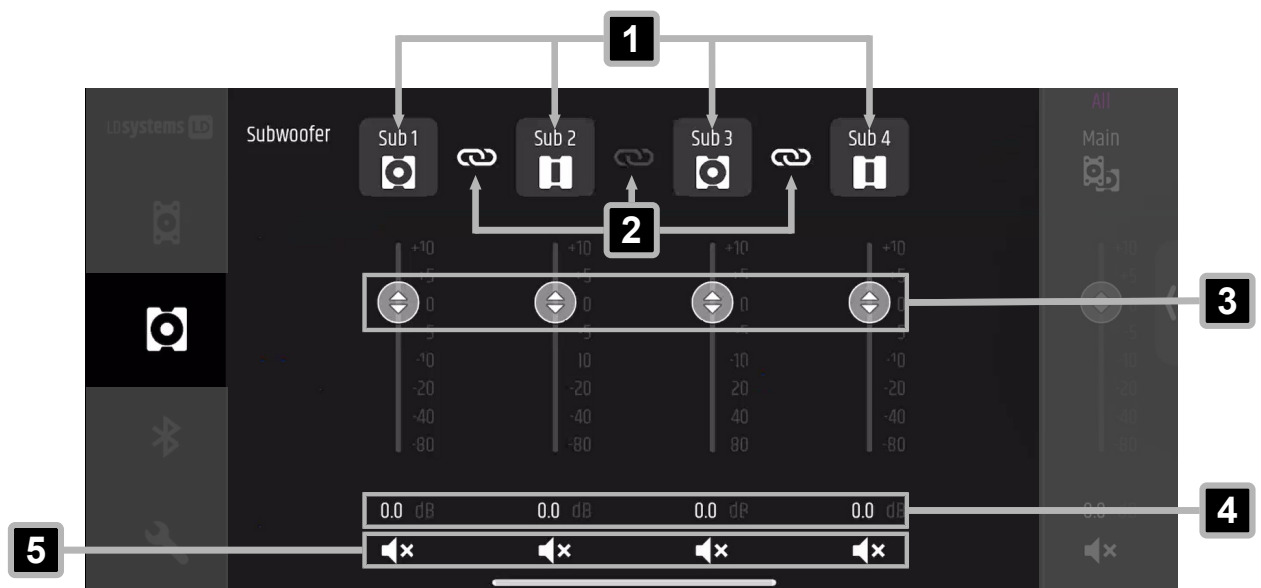
MAIN CONFIG SECTION OVERVIEW



- 1 Main Channel Name** - Indicates the selected main channel
- 2 Channel Selection** - Choose **<** or **>** to switch between channels
- 3 EQ ON / EQ OFF** - Toggles the equaliser on / off
- 4 ✕** - Closes the section
- 5 Main Channel Fader** - Adjusts the volume of the selected main channel (-80 dB...+10 dB)
- 6 LED Function** - Sets the function for the front LED
- 7 LCD Dimm** - Toggles the dimming function for the LCD display on / off. If the function is switched on, the display is dimmed after approximately 30 seconds of inactivity.
- 8 Speaker Preset** - Selects the preset for the selected loudspeaker (**Full Range, Satellite, Monitor, Flat**)
- 9 Wink** - Flashes the front LED
- 10 Main Coupling** - Activates the coupling for the main channels
- 11 Factory Reset** - Resets the selected **ICOA® PRO** to factory settings
- 12 System Info** - Indicates information on your device, firmware and DSP version
- 13 Mute** - Toggles mute on / off
- 14 LCD Brightness** - Sets the brightness for the LCD display of the **ICOA® PRO** (50 %...100 %)
- 15 Delay** - Adjusts the signal delay of the selected main channel (0.0 ms...147 ms)

8.4.3.9

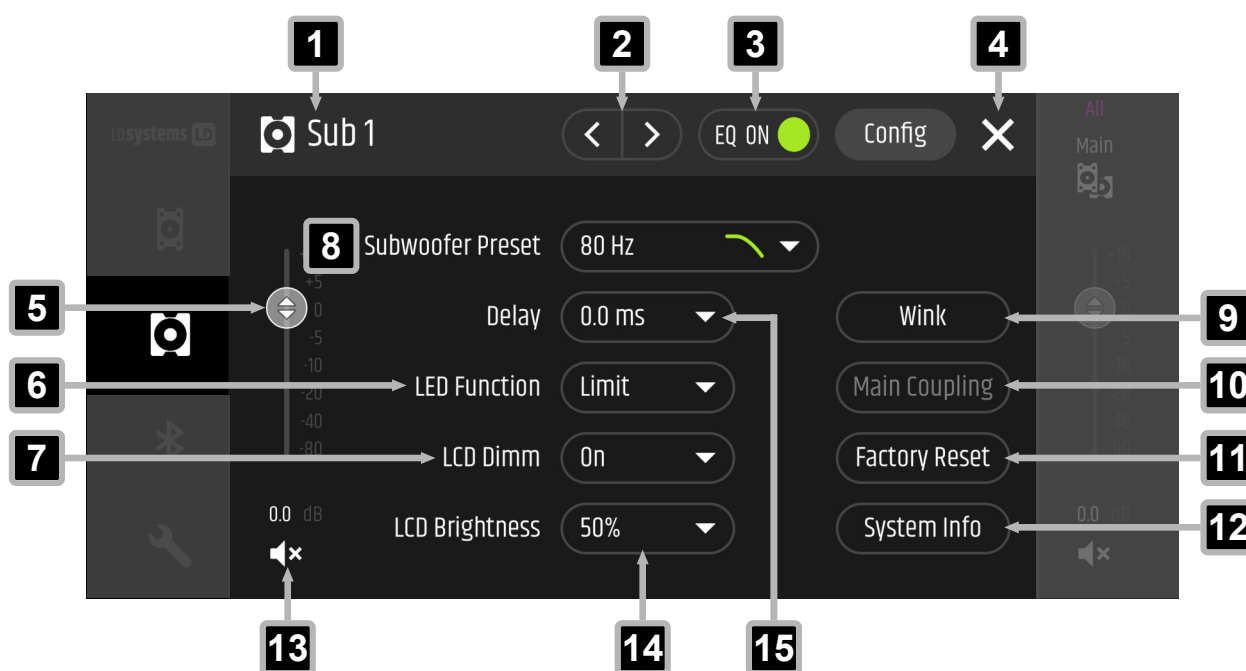
SUBWOOFER CHANNELS OVERVIEW



- 1 SubwooferOutput Channels** - Indicates the output channels for the subwoofers. Tap to open the channel settings.
- 2 Main Coupling** - Indicates the coupling status (White: Coupling is active, Grey: Coupling is not active)
- 3 Faders** - Adjusts the volume for the corresponding subwoofer output channel
- 4 Fader Value** - Indicates the fader level in dB (-80 dB...+10 dB)
- 5 Mute** - Toggles mute on / off

8.4.3.10

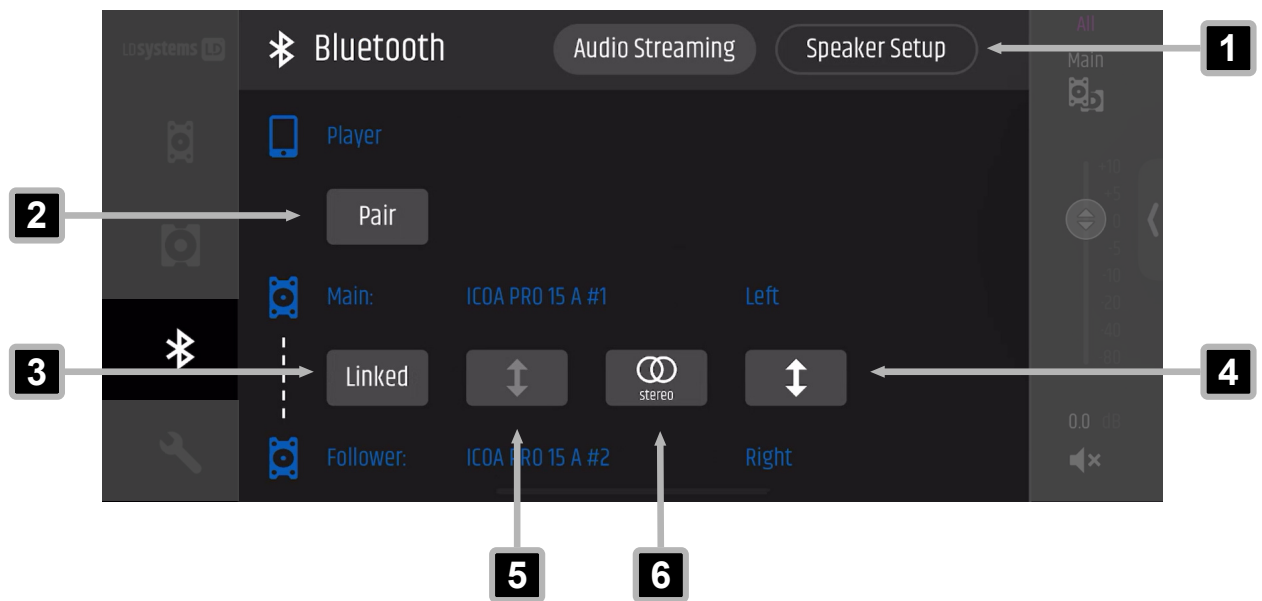
SUBWOOFER CONFIG OVERVIEW



- 1 Subwoofer Channel Name** - Indicates the selected subwoofer channel
- 2 Channel Selection** - Choose **<** or **>** to switch between channels
- 3 EQ ON / EQ OFF** - Toggles the equaliser on / off
- 4** **✕** - Closes the section
- 5 Sub Channel Fader** - Adjusts the volume of the selected subwoofer channel (-80 dB...+10 dB)
- 6 LED Function** - Sets the function for the front LED
- 7 LCD Dimm** - Toggles the dimming function for the LCD display on / off
- 8 Subwoofer Preset** - Selects the preset for the selected subwoofer (**80 Hz highcut**, **100 Hz highcut**, **120 Hz highcut**, **Cardioid**, **100 Hz Mon**, **Cardio Mon**)
- 9 Wink** - Flashes the front LED
- 10 Main Coupling** - Activates the coupling for the main channels
- 11 Factory Reset** - Resets the selected **ICOA® PRO** to factory settings
- 12 System Info** - Indicates information on your device, firmware and DSP version
- 13 Mute** - Toggles mute on / off
- 14 LCD Brightness** - Sets the brightness for the LCD display of the **ICOA® PRO** (50 %...100 %)
- 15 Delay** - Adjusts the signal delay of the selected main channel (0.0 ms...147 ms)

8.4.3.11

BLUETOOTH® SECTION OVERVIEW



- 1** **Speaker Setup** - Opens the **Speaker Setup** section
- 2** **Pair** - Starts the Bluetooth® pairing process with a mobile device for audio streaming
- 3** **Linked** - Indicates the linking status between the **Main** loudspeaker and the **Follower** loudspeaker (Link, Linking ..., Linked)
- 4** **Swap Left / Right** - Swaps **Left** and **Right** between the **Main** and **Follower** loudspeaker
- 5** **Swap Speakers** - Swaps the linked loudspeakers between **Main** and **Follower** position
- 6** **Mono / Stereo** - Toggles between stereo and mono configuration

8.4.3.12

SETTINGS SECTION OVERVIEW



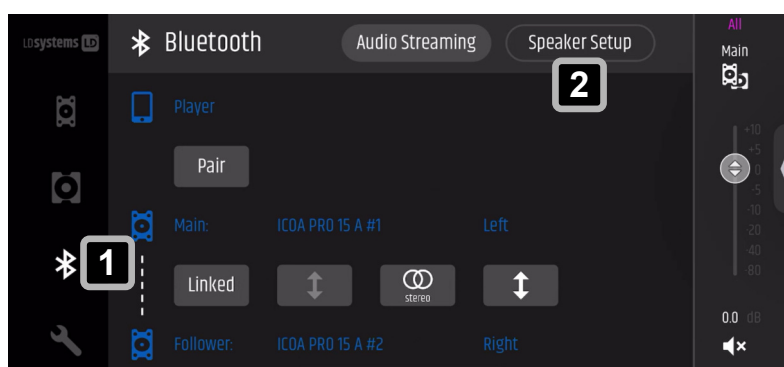
- 1** **ICOA® PRO Remote App - Version** - Indicates the version of your **ICOA® PRO** app
- 2** **Firmware Update** - Opens the **Firmware Update** section
- 3** **Support Manual** - Opens the **ICOA® PRO** user manual in the browser of your device
- 4** **Privacy Policy** - Opens the privacy policy in the browser of your device
- 5** **Scenes** - Opens the scenes section

8.4.4

USING THE APP SPEAKER SETUP

8.4.4.1

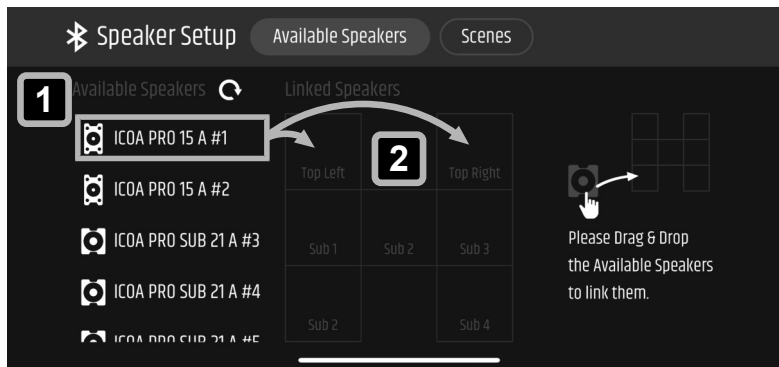
OPENING THE APP SPEAKER SETUP



- 1** In the Bluetooth® section **1**, tap on **Speaker Setup** **2**.
- ⇒ The **Speaker Setup** screen appears.

8.4.4.2

LINKING A LOUDSPEAKER



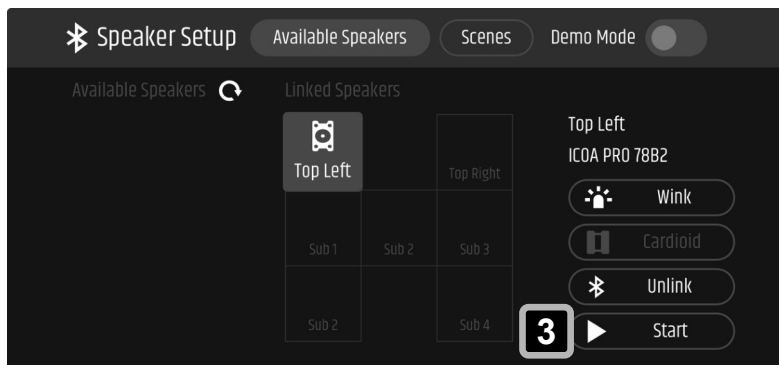
✓ Bluetooth® is switched on on your mobile device.

- 1 Tap and hold the corresponding device **1** to select it.
- 2 Drag and drop the selected device from the **Available Speakers** area to the respective **Linked Speakers** grid position **2**.

⇒ The loudspeaker is linked to the respective position.



You can only drag and drop tops to the **Top Left** or **Top Right** grid position and subwoofers to any **Sub** grid position.

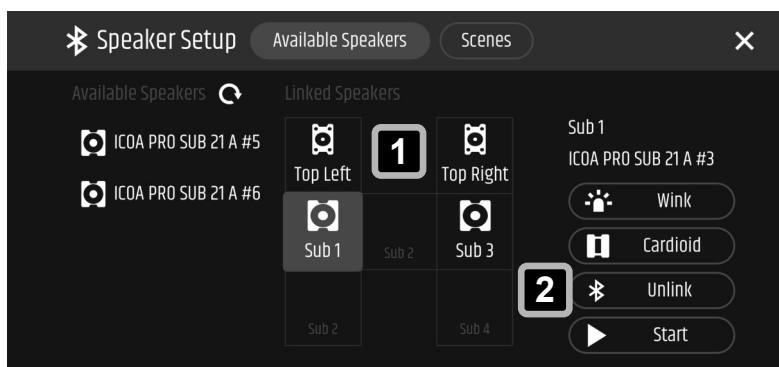


✓ You have linked at least one loudspeaker to a grid position.

- 3 Tap on **Start** **3** to confirm and close the **Speaker Setup**.

8.4.4.3

UNLINKING A LOUDSPEAKER



- 1 Tap on the respective loudspeaker in the grid of the **Linked Speakers** area **1**.

- 2 Tap on **Unlink**. **2**

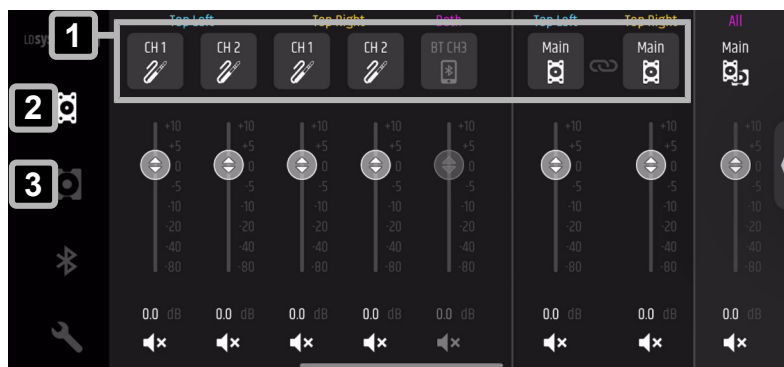
⇒ The loudspeaker is unlinked from the respective grid position.

8.4.5 USING THE EQUALISER (EQ)

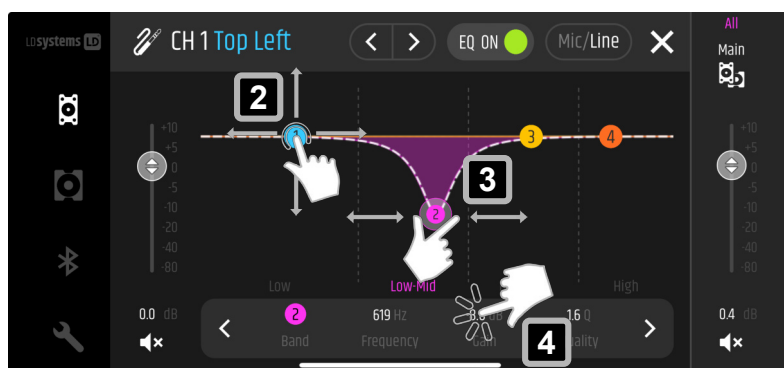
Find instructions below for operating the equaliser using an input channel from the **ICOA® PRO** series.



The software layout in the app differs slightly for main channels and subwoofer channels.



- 1 Tap on any channel **1** in the main section **2** or the subwoofer section **3** to open the equaliser.



Tap **<** or **>** to navigate between channels.

- 2 Tap and hold the respective frequency band **2**:
 - a) Move left or right to select the frequency.
 - b) Move up or down to boost or cut the frequency.

3 Drag the frequency band to the needed position.

4 Pinch in or out to adjust the Q-factor. **3**



Tap on **Frequency**, **Gain** or **Quality** **4** to enter the values using the virtual keyboard.

8.5 INPUT CONNECTIONS

8.5.1 CONNECTING AN INPUT SOURCE TO THE ICOA® PRO SUB



CAUTION

High sound pressure levels

Risk of hearing damage

- a. Make sure that the main volume is turned all the way down, before you connect any input sources.



NOTICE

High Sound Pressure Level

Damage to the loudspeaker

- a. Connect line level devices, such as mixing consoles, to the line input only.

✓ You have a 3-pin XLR cable.

- 1 Turn down the main volume.
- 2 Connect a line input source to **INPUT 1** or **INPUT 2**.
- 3 Turn up the main volume.

8.5.2 CONNECTING AN ICOA® PRO TOP VIA XLR



CAUTION

High sound pressure levels

Risk of hearing damage

- a. Make sure that the main volume is turned all the way down, before you connect any input sources.



NOTICE

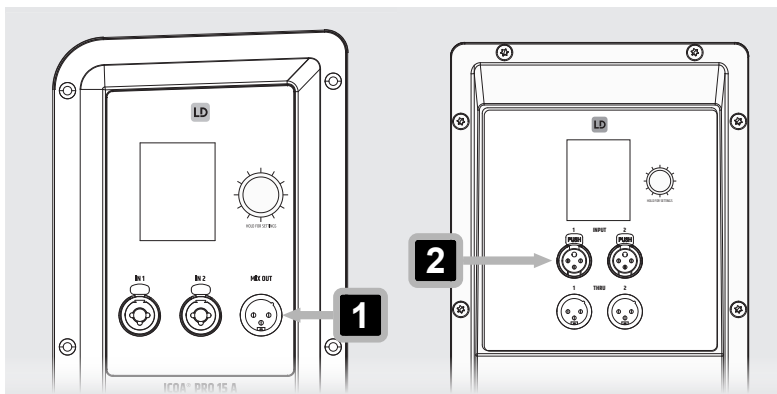
High Sound Pressure Level

Damage to the loudspeaker

- a. Connect line level devices, such as mixing consoles, to the line input only.



When using an **ICOA® PRO** top with your **ICOA® PRO** subwoofer, make sure you are using the **Satellite** loudspeaker preset with your top.



✓ You have a 3-pin XLR cable.

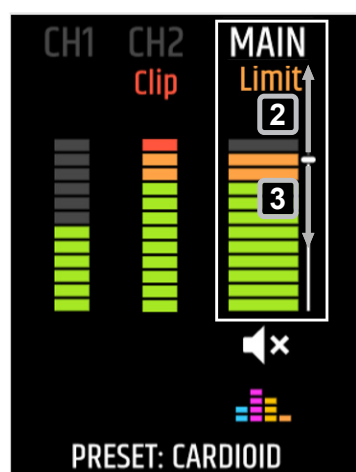
- 1 Turn down the main volume.
- 2 Connect the **ICOA® PRO MIX OUT 1** to the **ICOA® PRO** subwoofer **INPUT 1** or **INPUT 2 2**.
- 3 Turn up the main volume.

8.6 AUDIO PLAYBACK

8.6.1 ADJUSTING THE MAIN VOLUME



- 1 Turn the **rotary-push encoder (RPE)** until the **MAIN** channel is highlighted. **1**
- 2 Push the **RPE**.



- 3 Turn the **RPE** clockwise to increase the output volume **2** and anticlockwise to decrease it **3**.

8.7

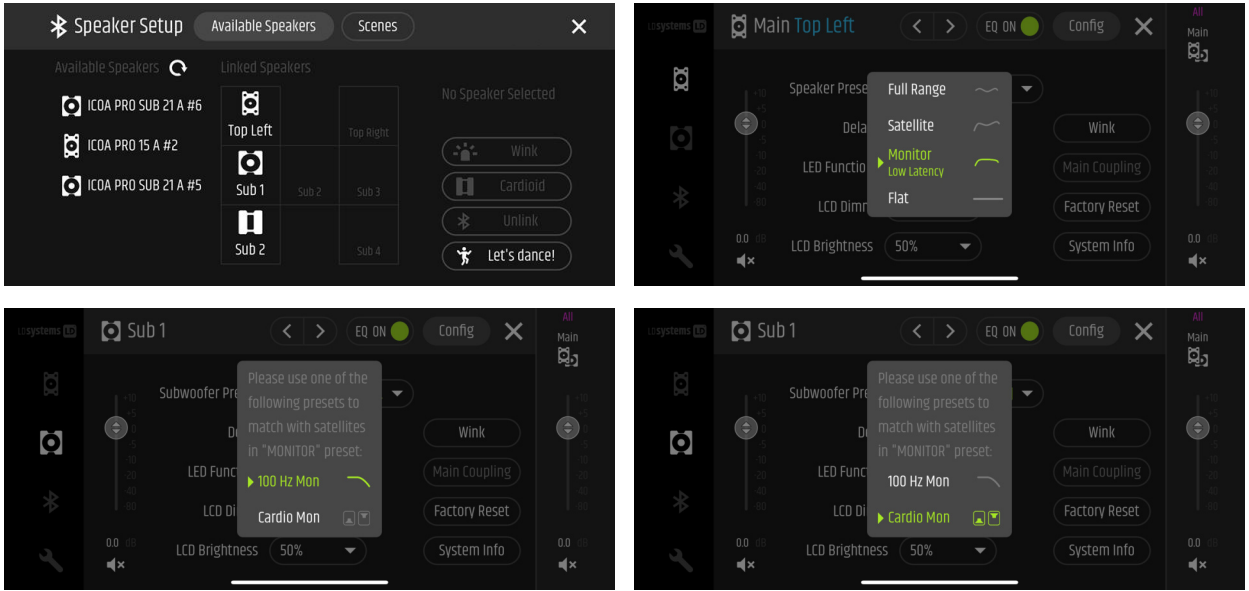
MONITOR MODE USE CASE



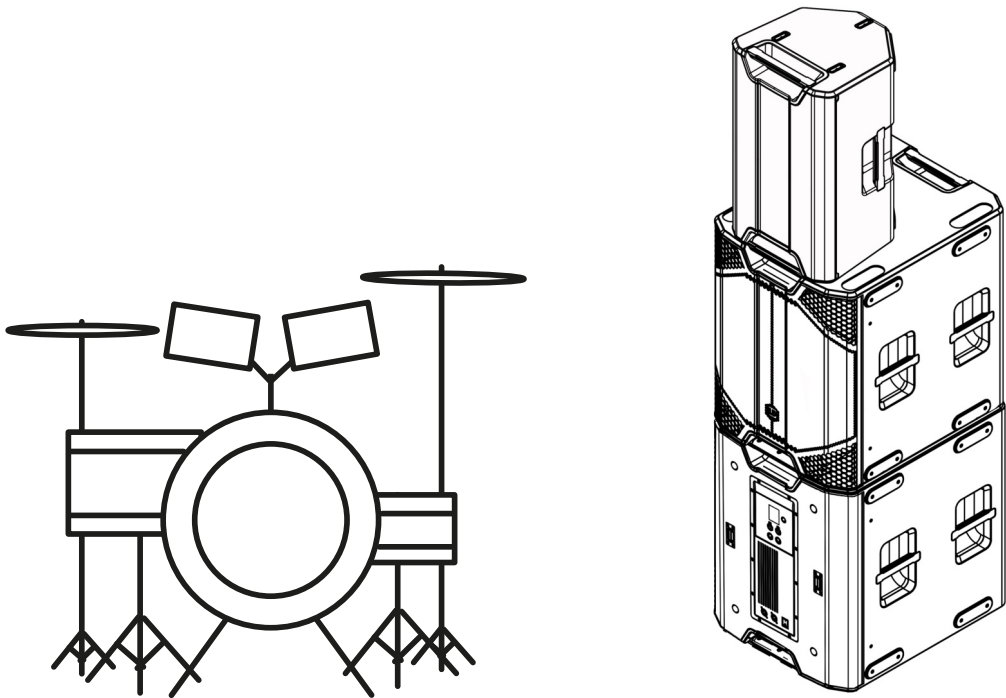
Find below the drum fill / side fill use case with screenshots of the **ICOA® PRO** app showing the corresponding settings.

8.7.1

DRUM FILL / SIDE FILL

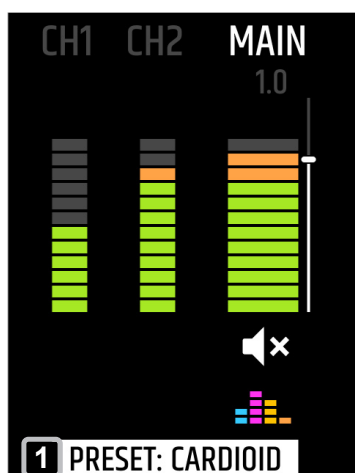


Falling object
Risk of serious injury
Secure the devices against unintentional movements.



8.8 OUTPUT CONNECTIONS

8.8.1 LOADING A SUBWOOFER PRESET ON THE DEVICE



⇒ The **EQ PRESETS** screen appears.

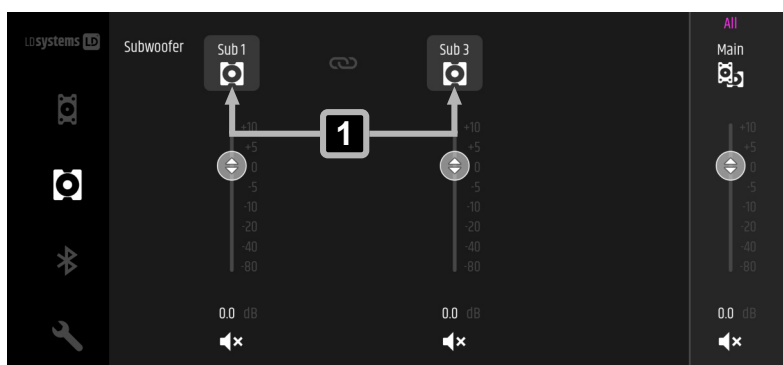


⇒ The corresponding preset is applied to the output signal.

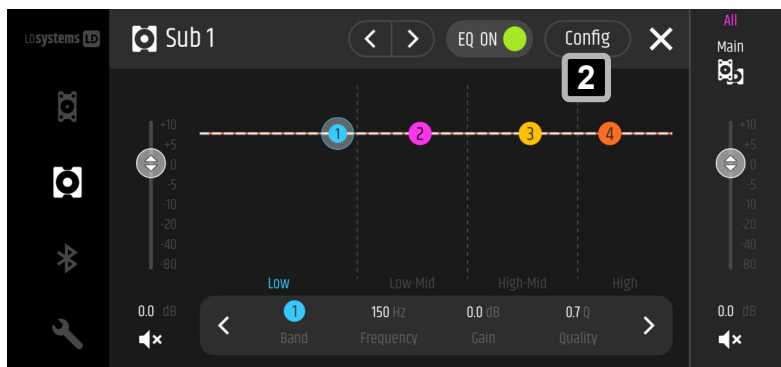
- 1 In the **ICQA® PRO SUB** main screen, turn the **rotary-push encoder (RPE)** until the subwoofer preset is highlighted **1**.
- 2 Push the **RPE**.

- 3 Turn the **RPE** until a preset is highlighted.
 - a) If necessary, select **Monitor ...** and push the **RPE** to access the monitor presets.
- 4 Push the **RPE** to activate the corresponding preset.

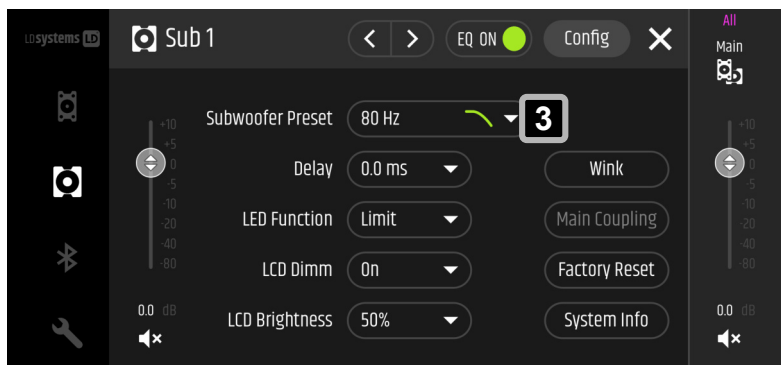
8.8.2 LOADING A SUBWOOFER PRESET IN THE APP



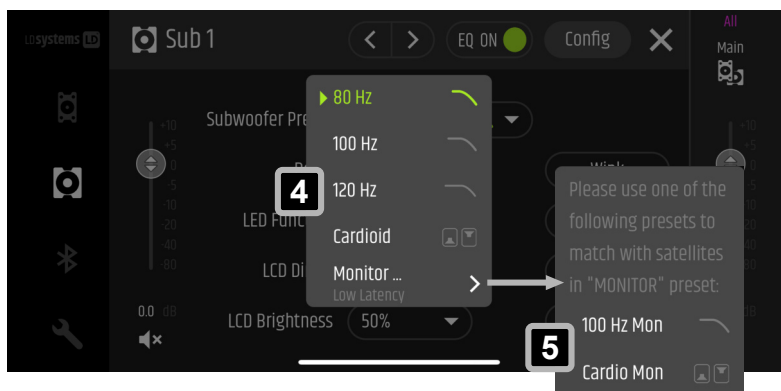
- 1 Tap on any **Subwoofer** channel **1**.



2 Tap on **Config** **2** to open the configuration.



3 Tap on **Subwoofer Preset** **3** to open the preset menu.



4 Select a subwoofer preset from the menu **4**, such as the **80 Hz** highcut **5**.

With the **Monitor** presets, the **ICOA® PRO** operates in **Low Latency** mode.

8.8.3 CONNECTING ADDITIONAL ICOA® PRO SUBWOOFERS

1 Connect the **THRU 1** or **THRU 2** output of the first **ICOA® PRO** subwoofer to the **INPUT 1** or **INPUT 2** of the second unit using a 3-pin XLR cable.



The **THRU 1** output of the **ICOA® PRO** subwoofer provides the signal from **INPUT 1** only. The **THRU 2** output provides the signal from **INPUT 2** only.

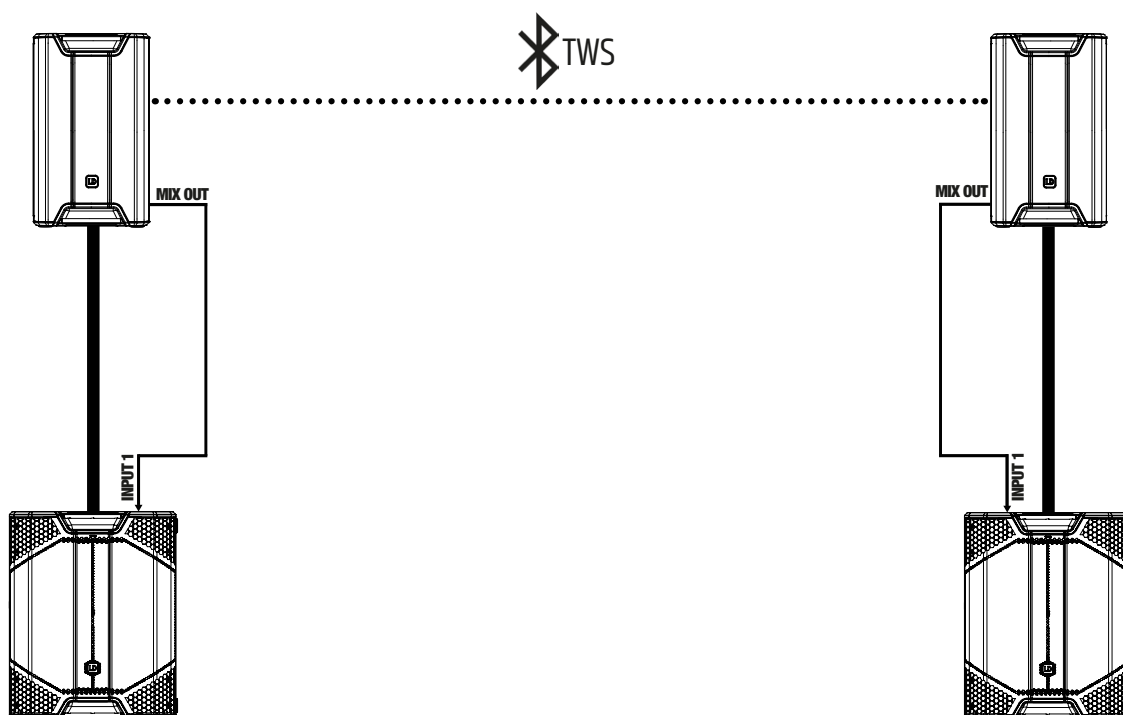
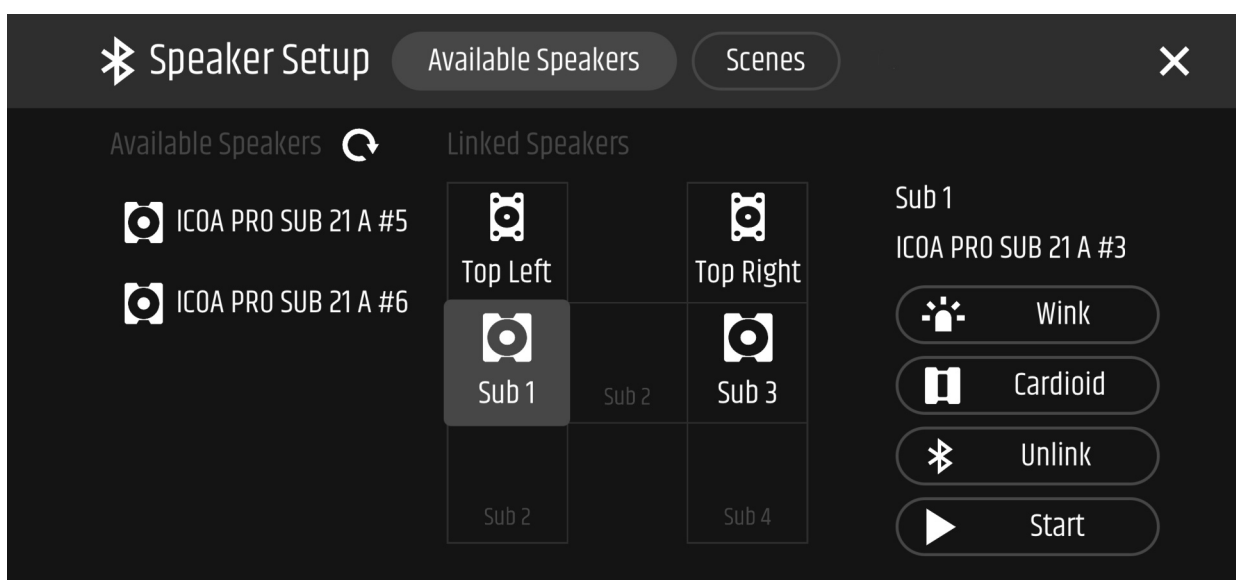
8.9 LOUDSPEAKER SETUPS

8.9.1 ABOUT LOUDSPEAKER SETUPS

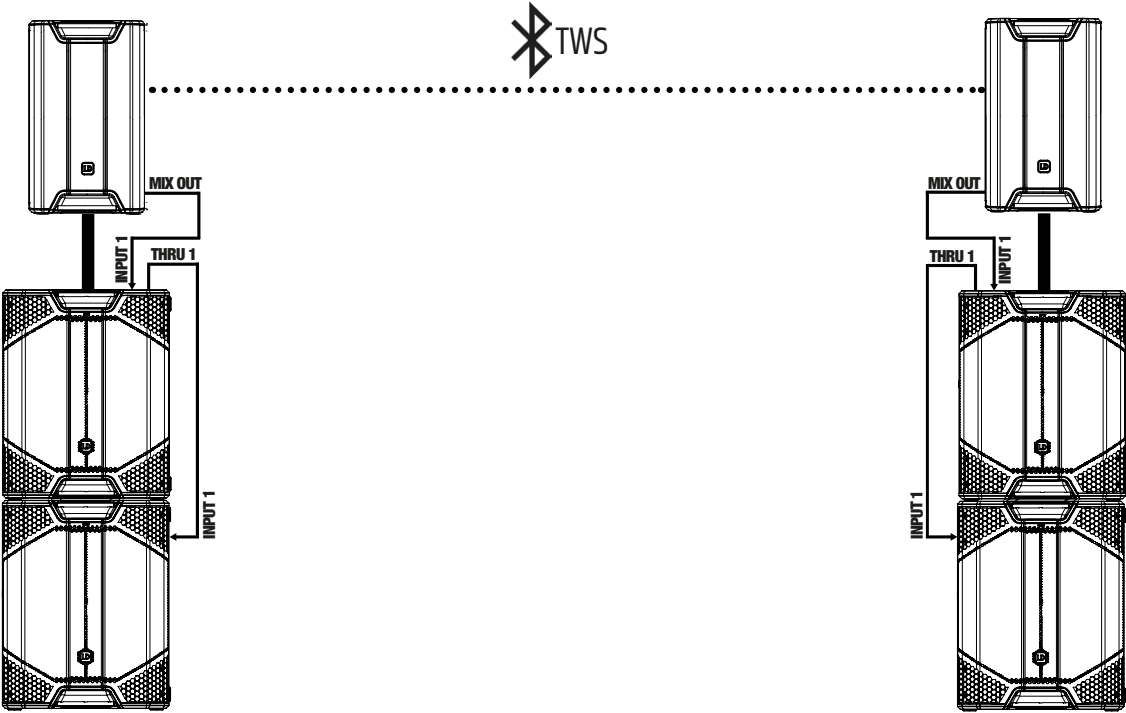
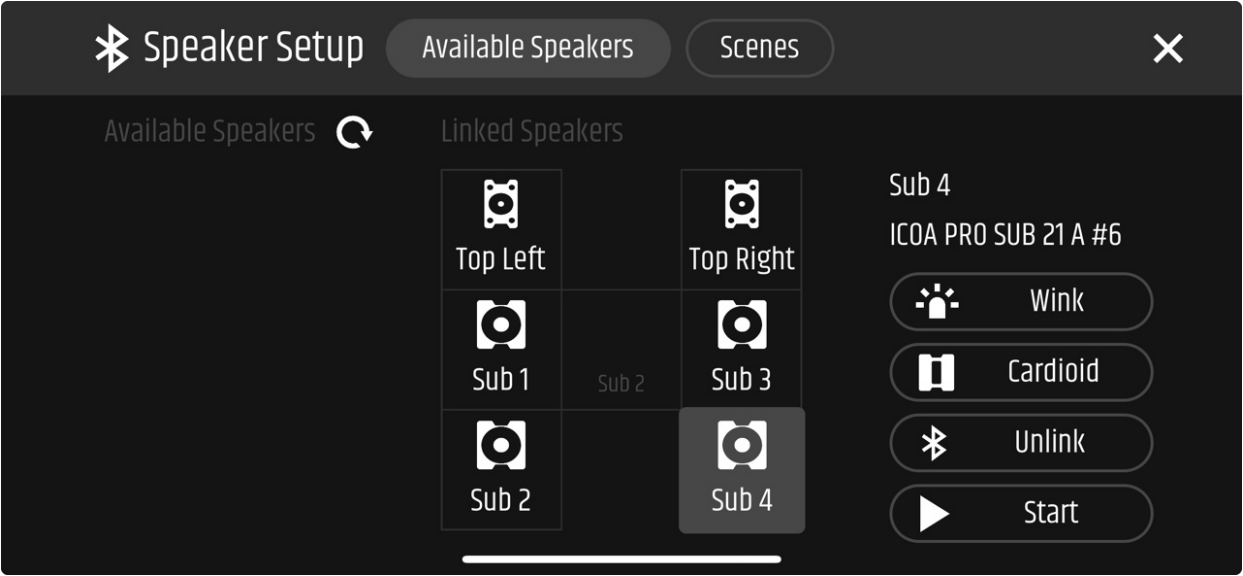
In the following find typical use cases for loudspeaker setups.

In addition you find a corresponding screenshot of the **Speaker Setup** in the **ICOA® PRO** app.

8.9.2 STEREO WITH 2 TOPS AND 2 SUBS

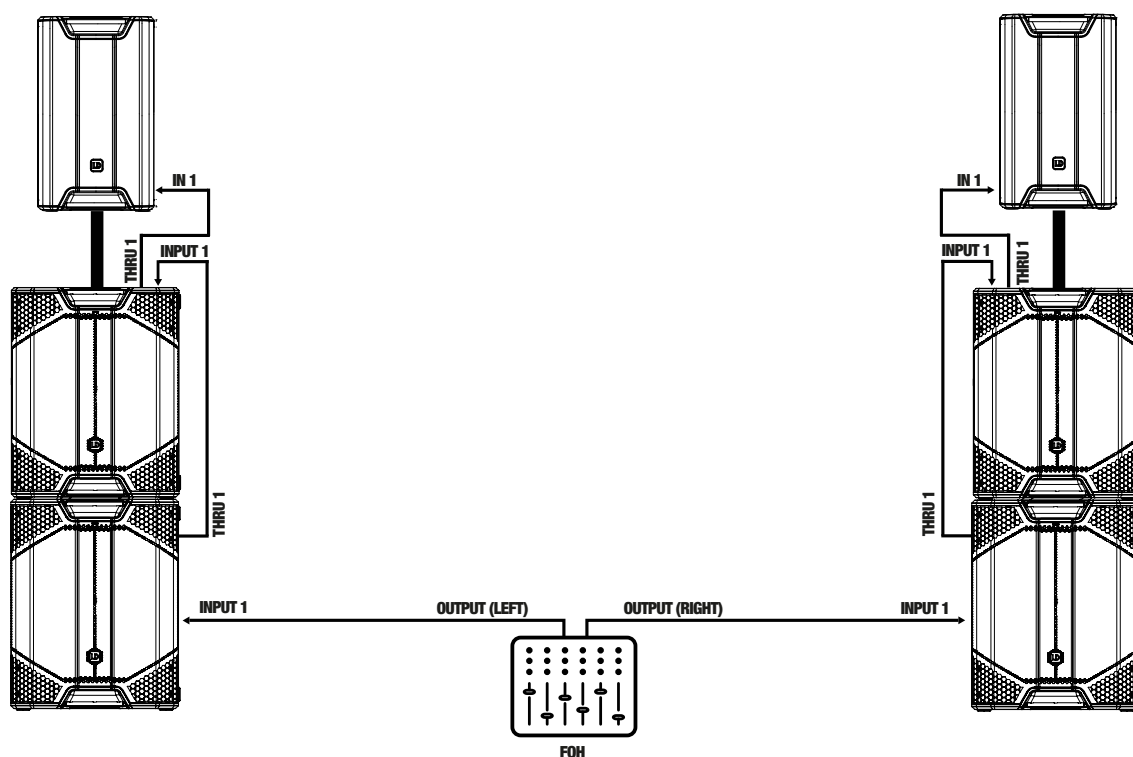
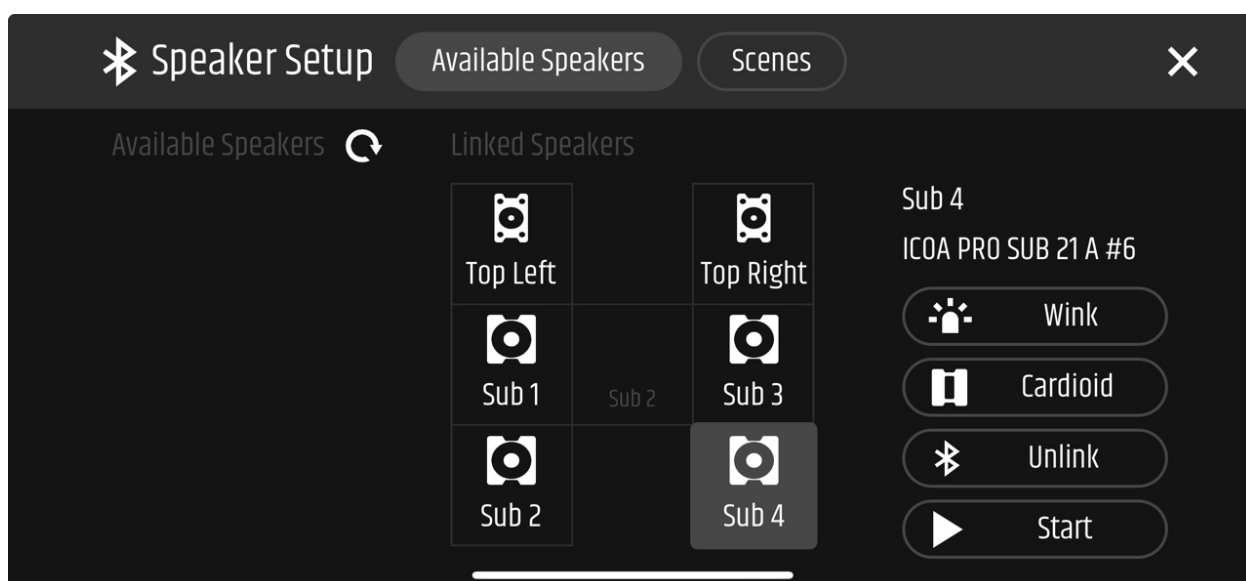


8.9.3 STEREO WITH 2 TOPS AND 4 SUBS



8.9.4

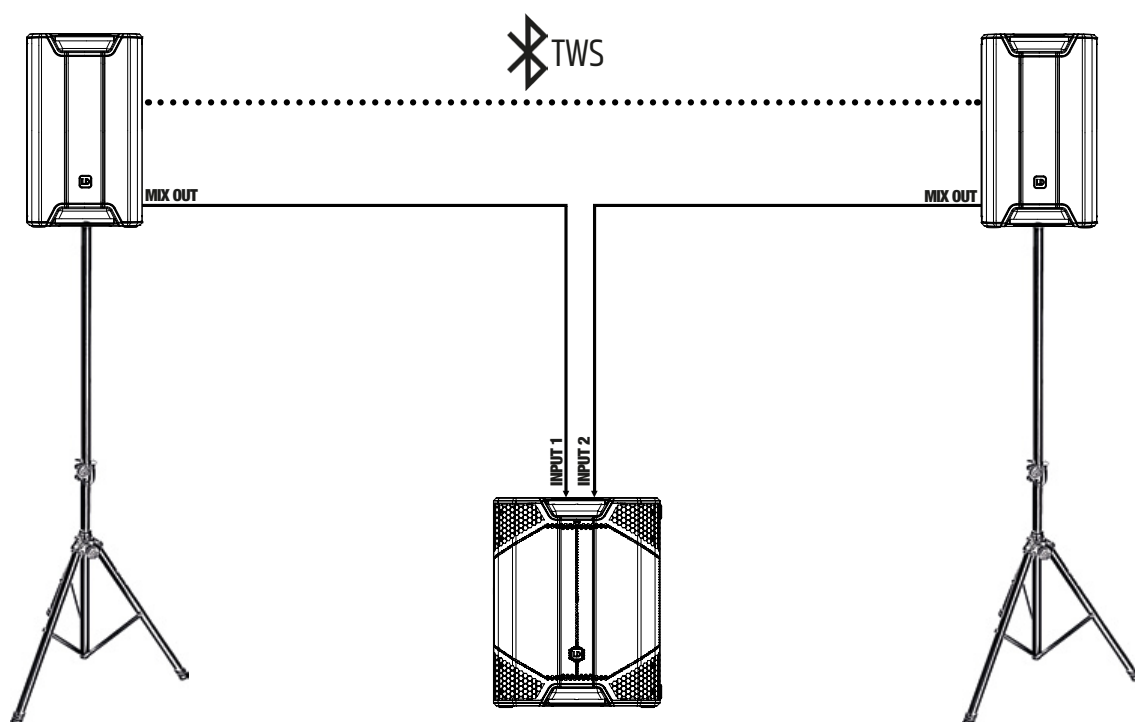
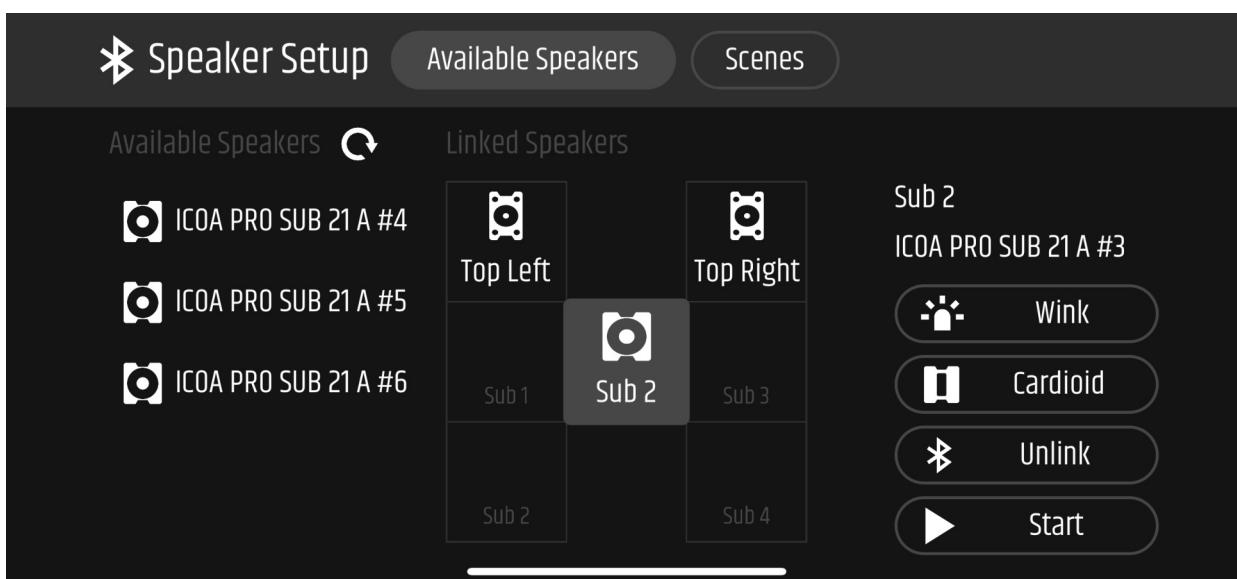
STEREO WITH 2 TOPS AND 4 SUBS - NO TRUE WIRELESS STEREO (TWS)*



* This setup is not suitable for audio transmission via True Wireless Stereo (TWS).

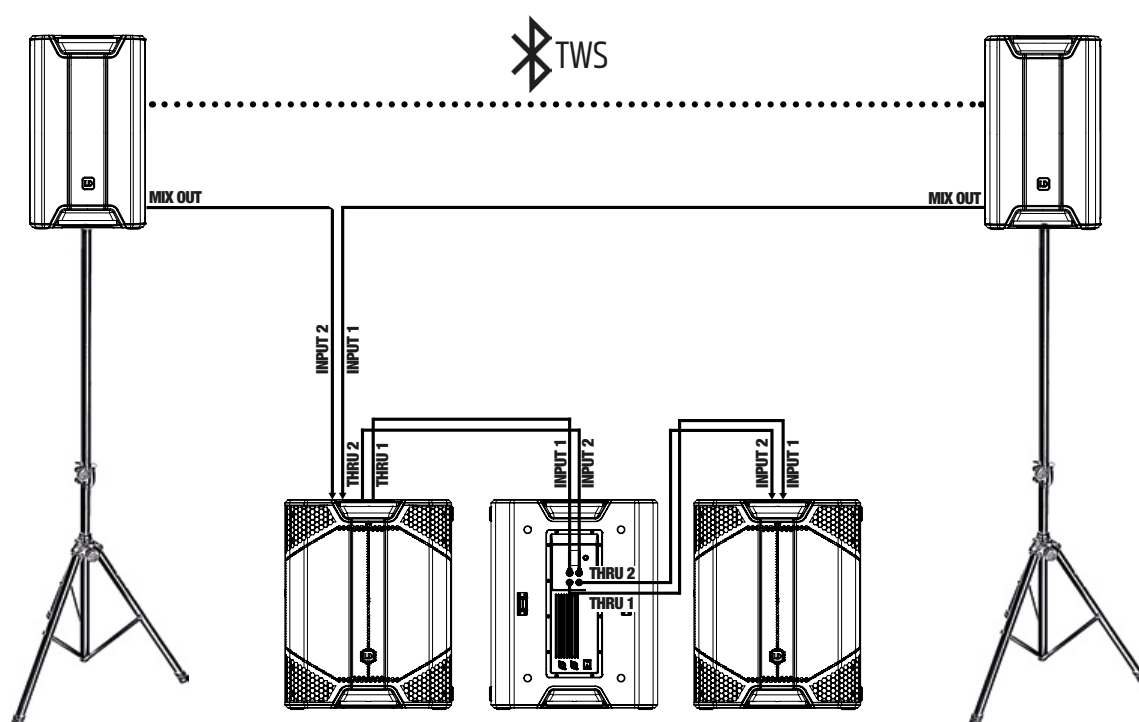
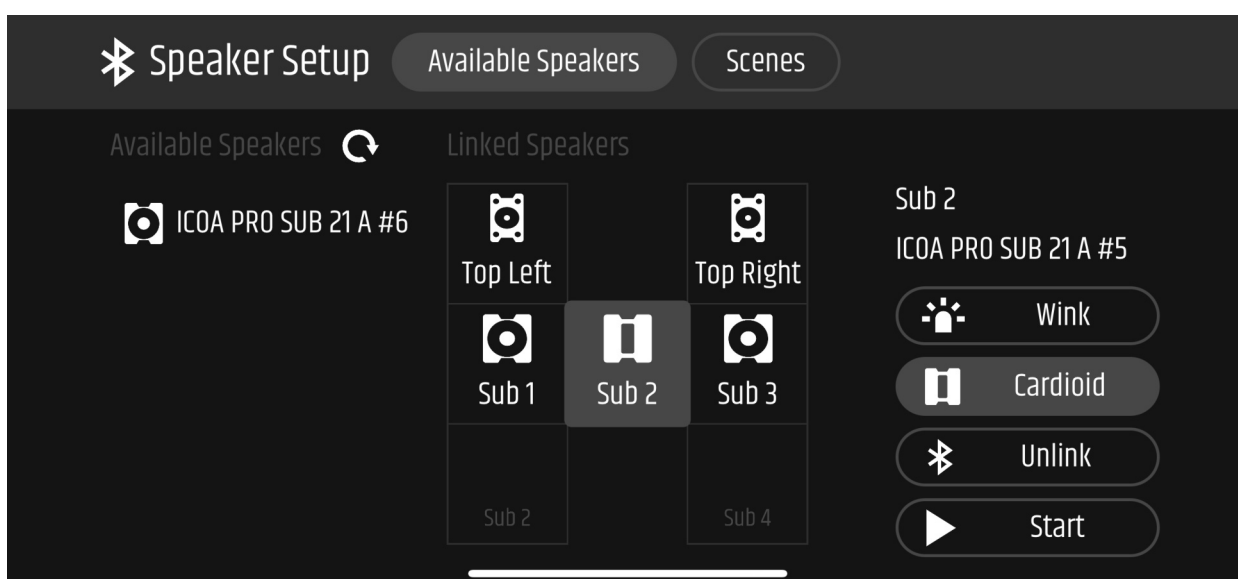
8.9.5

STEREO WITH 2 TOPS AND MONO SUB

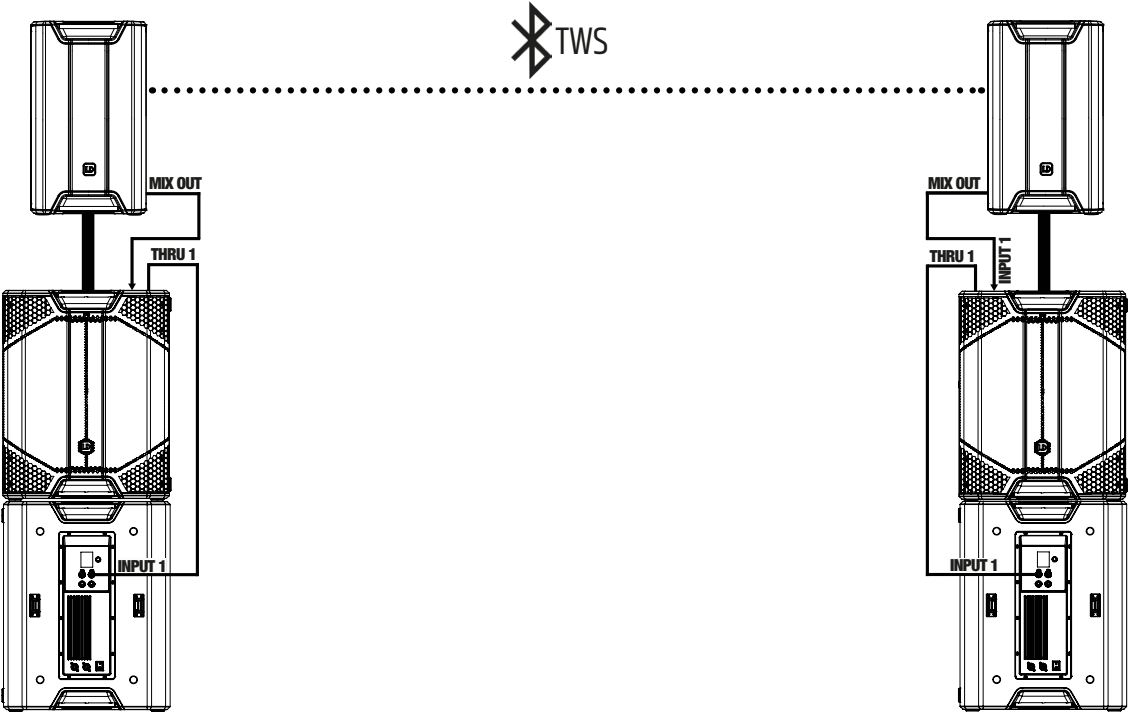
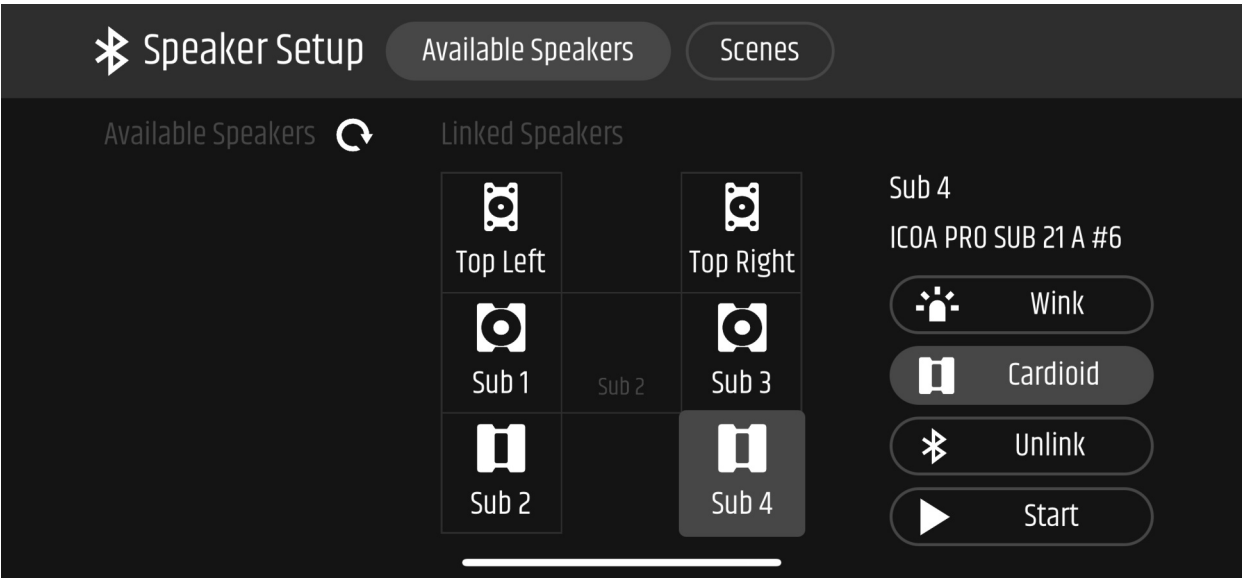


8.9.6

STEREO CARDIOID WITH 2 SUBS AND 3 SUBWOOFERS

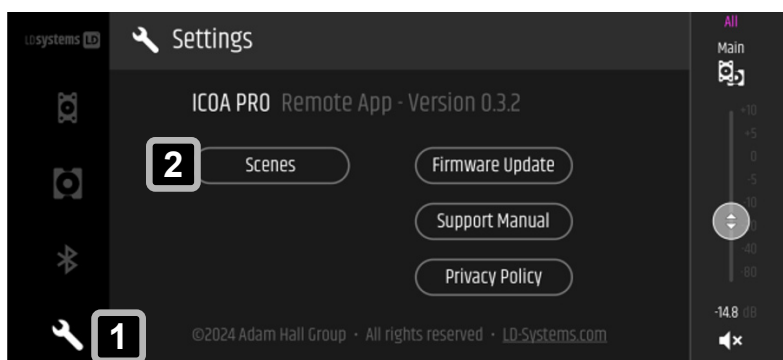


8.9.7 STEREO WITH 2 TOPS AND 4 SUBS (2 SUBS CARDIOID)



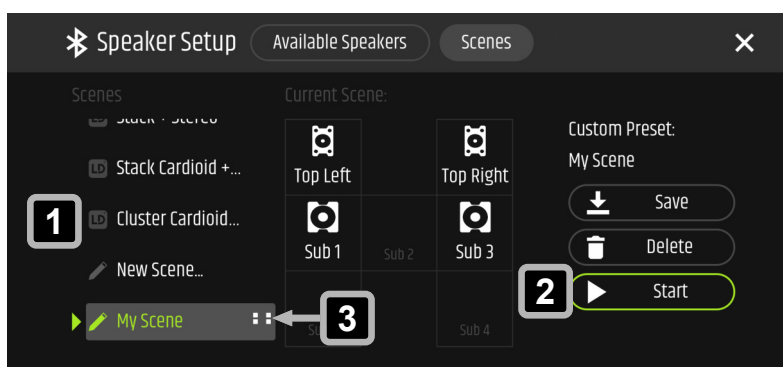
8.10 SCENES

8.10.1 OPENING THE SCENES SECTION



- 1 In the **Settings** section **1**, tap on **Scenes** **2**.

8.10.2 ACTIVATING SCENES



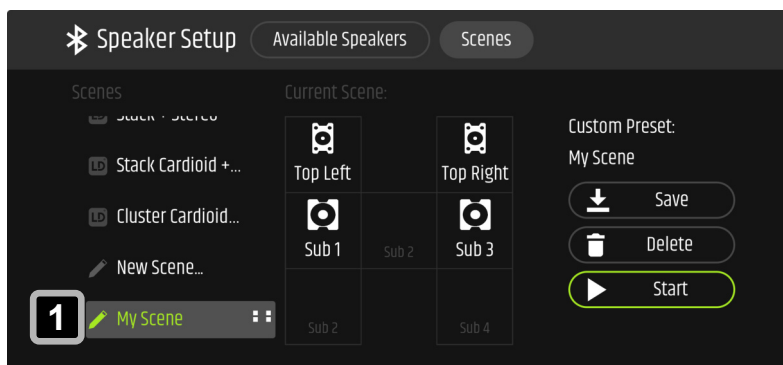
- 1 Tap on a scene from the **Scenes** area. **1**
- 2 Tap on **Start** **2** to activate the scene.



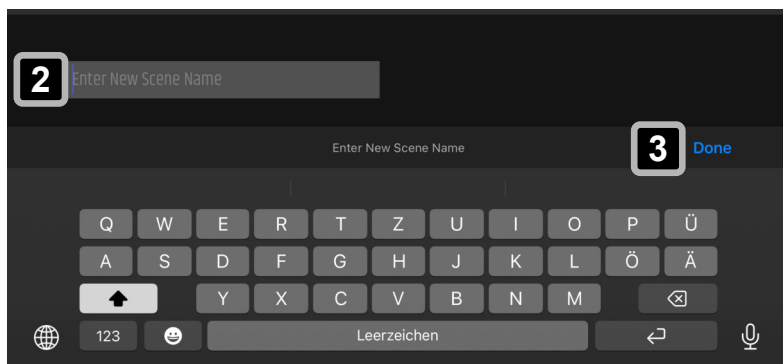
The white squares  to the right of the scene name **3** show the loudspeaker grid configuration for which the respective scene contains settings.

8.10.3 SAVING CUSTOM SCENES

Use custom scenes to save loudspeaker configurations with all associated settings, such as volume levels or EQ settings.



- 1 At the bottom of the **Scenes** list, tap on **New Scene...** **1**



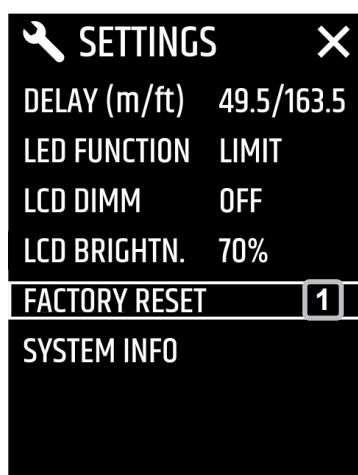
- 2 Enter a name for the new scene. **2**
- 3 Confirm your entry. **3**
⇒ The custom scene appears in the **Scenes** list.

9 | MAINTENANCE

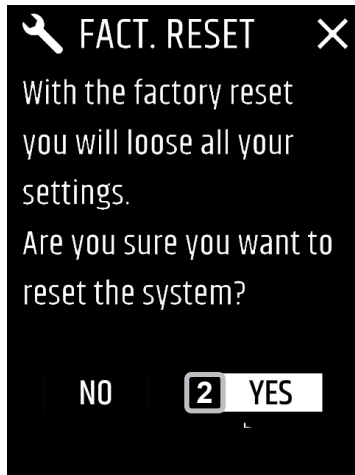
9.1 TROUBLESHOOTING

Problem	Cause	Solution
Bluetooth® connection interrupted or disturbed	Distance between device and ICOA® PRO too great	Reduce distance between device and ICOA® PRO
	Pairing issues	• Switch Bluetooth® off and on again on mobile device • Reboot mobile device and the ICOA® PRO
ICOA® PRO app connection not working	Distance between device and ICOA® PRO too great	Reduce distance between device and ICOA® PRO
Input signal distorted	Defective device or microphone connected to the input	Test with another device or microphone whether the problem persists.
	Cable defective	Test with another cable whether the problem persists.
Main limiter is active (Front LED illuminated red)	Main volume is too loud	Reduce the volume of the input channels and / or the main channels.

9.2 RESETTING THE DEVICE TO FACTORY SETTINGS



- 1 Open the **SETTINGS** section on the **ICOA® PRO**.
- 2 Turn the **rotary-push encoder (RPE)** until **FACTORY RESET 1** is highlighted.
- 3 Push the **RPE**.



- ⇒ The **FACT. RESET** screen appears.
- ⇒ The warning message **With the factory reset you will loose all your settings. Are you sure you want to reset the system?** appears.
- 4** Turn the **RPE** until **YES 2** is highlighted.
- 5** Push the **RPE** to proceed with the factory reset.
 - ⇒ The factory reset is executed.
 - ⇒ The main screen appears.

9.3

CLEANING THE DEVICE



Mains Voltage

Risk of electric shock

- a. Before you perform maintenance work on the device, disconnect the device from all poles.



Damage to the device and void of warranty

- a. Perform maintenance on the device on a regular basis.
- b. Do not use cleaning agents, disinfectants, alcohol, or agents with abrasive effect for cleaning.

Carry out the maintenance measures listed below every 500 hours of operation. In case of less intensive use, perform maintenance work after 1 year at the latest.

- Clean the housing surface with a clean and damp cotton cloth. Wipe off all excess moisture to prevent damage to the internals.
- Clean any air inlets and outlets of dust and dirt. If you use compressed air, make sure that all fans are blocked to prevent damage to the internals.
- Clean all plug contacts from dust and dirt with a dry cotton cloth.

9.4

STORING THE DEVICE

Store the device only in a dry and clean environment. If you are storing the individual components of the device, use special protective covers, bags, and cases. Find such accessories for your product in the Adam Hall Shop (<https://www.adamhall.com/shop>).

10 | REPAIR



CAUTION

Do not repair the device.

- a. Repairs may only be carried out by specialist personnel authorised by the manufacturer.
 - b. If your device is damaged or requires service, contact the Adam Hall Customer Service.
-

See also:
Contacts [► 8]

11 | DISPOSAL

11.1

PACKAGING DISPOSAL



1. You can feed the packaging into the reusable material cycle using the usual disposal methods.
2. Separate the packaging in accordance with the applicable disposal laws and recycling regulations in your country

11.2

DEVICE DISPOSAL



1. This device is subject to the European Directive on Waste Electrical and Electronic Equipment, as amended. WEEE Directive Waste Electrical and Electronic Equipment. Old appliances do not belong in the household waste. The old device must be disposed of via an approved disposal company or a municipal disposal facility. Observe the applicable regulations in your country.
2. Observe all disposal laws applicable in your country.
3. As a private customer, you can obtain information on environmentally friendly disposal options from the seller of the product or the appropriate regional authorities.

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