



ICOA PRO SUB 21 A

POWERED 21" BASS REFLEX PA SUBWOOFER

LDICOASUB21APRO

1 | INTRODUCTION

1.1 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/>

1.2 READ THE COMPLETE DOCUMENTATION



This document is an abridged version of the documentation. Follow the QR code to the complete user manual.

1.3 SCOPE OF DELIVERY

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

1.4 DOWNLOADING THE MOBILE APP

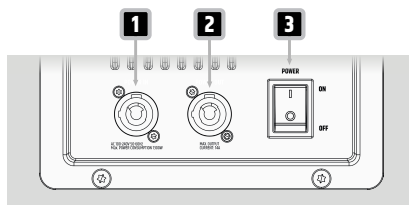


Download the app for full functionality!

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

2 | POWER SUPPLY

2.1 POWER CONNECTIONS



- 1 POWER IN** - Device power socket
- 2 POWER OUT** - Device power output socket
- 3 POWER** - On/Off switch

2.2 CONNECTING A MAINS POWER CABLE



CAUTION

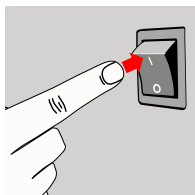
Mains voltage

Risk of electric shock

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

- 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 mains power connector into the mains power socket.

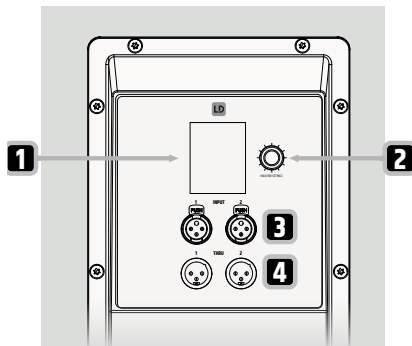
2.3 TURNING THE DEVICE ON OR OFF



- 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.

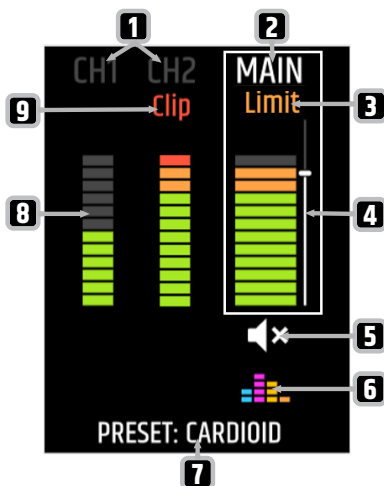
3 | GETTING STARTED

3.1 USER INTERFACE



- 1 **LC Display** - Main graphic colour display
- 2 **Rotary-Push Encoder (RPE)** - Controls the display menu items
- 3 **INPUT 1/2** - Audio input socket (3-pin XLR) for balanced line connections
- 4 **THRU 1/2** - Outputs inputs 1 and 2

3.2 MAIN SCREEN



- 1 **CH1 & CH2** - Channel names for input channels 1 and 2. Select to access the channel fader (4).
- 2 **MAIN** - Channel name for the main mix output channel. Select to access the channel fader (4).
- 3 **LIMIT** - Indicates that the main channel limiter is active
- 4 **Channel Fader** - Turn to increase or decrease the main channel output volume
- 5 **Mute** - Toggle mute or unmute of the main mix channel
- 6 **Equaliser** - Select to access the main mix channel EQ. If the EQ is flat, the icon is white
- 7 **Speaker Preset** - Select to access the speaker preset sub menu (Cardioid, Cardioid Mon)
- 8 **Metering** - 12 segment channel metering
- 9 **CLIP** - Indicates that the corresponding channel is clipping

3.3 USING THE ROTARY-PUSH ENCODER

If you're not using the **ICOA® PRO** app, use the **rotary-push encoder (RPE)** to access the menu items. 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. After 10 seconds of inactivity, the cursor jumps back to the **MAIN** screen overview.

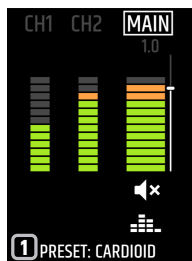
- 1 In the main screen, turn the **RPE** clockwise until  below the **MAIN** channel is highlighted.
 - 2 Push the **RPE** to access the **MAIN EQ** sub menu.
 - 3 Adjust the **EQ**.
 - 4 After you have adjusted the **EQ**, turn the **RPE** until  is highlighted.
 - 5 Push the **RPE** to go back from the **EQ** menu to the main screen.
- ⇒ The **MAIN EQ** is highlighted in colour .

4 | PRESETS

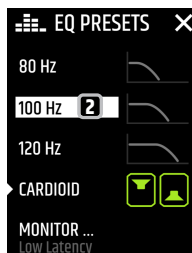
4.1 LOADING AN EQ PRESET



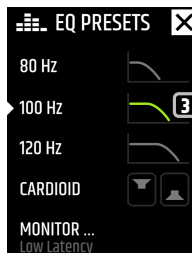
The factory set preset upon the first startup of the **ICOA Pro Subwoofer** is **Full**.



- 1 In the main screen, turn the **rotary-push encoder (RPE)** clockwise, until **Preset**: is highlighted. **1**
- 2 Push the **RPE** to open the **EQ Preset** menu.



- 3 Turn the **RPE** until a crossover frequency is highlighted, such as **100 Hz**. **2**



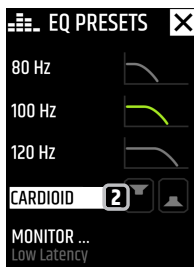
- 4 Push the **RPE** to activate the EQ preset. **3**
- ⇒ The corresponding EQ preset shows the  icon in front
- ⇒ The corresponding EQ preset is highlighted.



4.2 LOADING THE CARDIOID PRESET



- 1 In the main screen, turn the **rotary-push encoder (RPE)** clockwise, until **Preset:** is highlighted. **1**
- 2 Push the **RPE** to open the **EQ Preset** menu.



- 3 Turn the **RPE** until **CARDIOID** is high-lighted. **2**

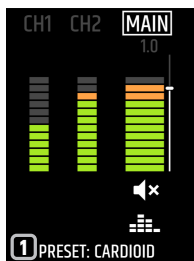
- 4 Push the **RPE** to activate the **CARDIOID** preset.

- ⇒ The **CARDIOID** preset shows the icon in front.
- ⇒ The cardioid icon is highlighted.

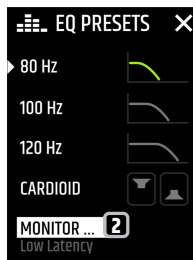
4.3 LOADING A MONITOR PRESET



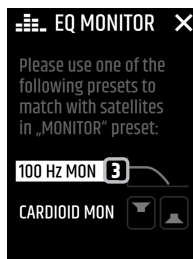
When using a **MONITOR** preset, make sure that you have a **MONITOR** preset activated for the **ICOA Pro** tops as well as for the subwoofers. If not, the delay time between the speakers may cause frequency-dependent cancellation.



- 1 In the main screen, turn the **rotary-push encoder (RPE)** clockwise, until **Preset:** is highlighted. **1**
- 2 Push the **RPE** to open the **EQ Preset** menu.



- 3 Turn the **RPE** until **MONITOR...** is high-lighted. **2**
- 4 Push the **RPE** to enter the **EQ MONITOR** menu.



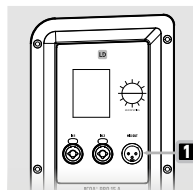
- 5 Turn the **RPE** until the corresponding preset, such as **100 Hz MON**, is highlighted. **3**
- 6 Push the **RPE** to activate the preset.

5 | EXTERNAL CONNECTIONS

5.1 CONNECTING AN ICOA® PRO TOP VIA XLR



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



- 1 Connect the **ICOA® PRO MIX OUT 1** to the **ICOA® PRO** subwoofer **INPUT 1** using a 3-pin XLR cable.

5.2 CONNECTING TWO 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.

6 | ADVANCED LOUDSPEAKER SETUPS

6.1 STEREO CONFIGURATION WITH 2 TOPS AND 2 SUBWOOFERS

See the link below for a wiring example for this loudspeaker setup.

See also:

Stereo Configuration (2 Subs) [▶ 6]

6.2 STEREO CARDIOID CONFIGURATION WITH 2 TOPS AND 3 SUBWOOFERS

See the link below for a wiring example for this loudspeaker setup.

See also:

Stereo Cardioid Configuration (3 Subs) [▶ 7]

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC warning:

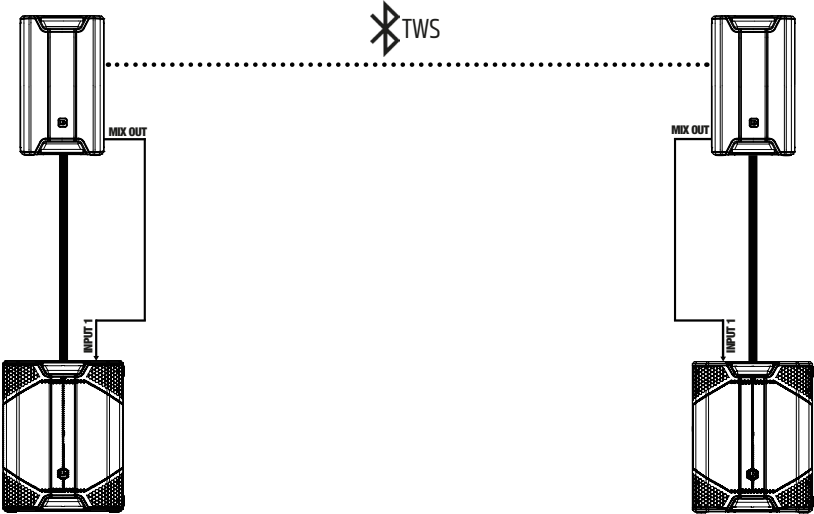
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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:

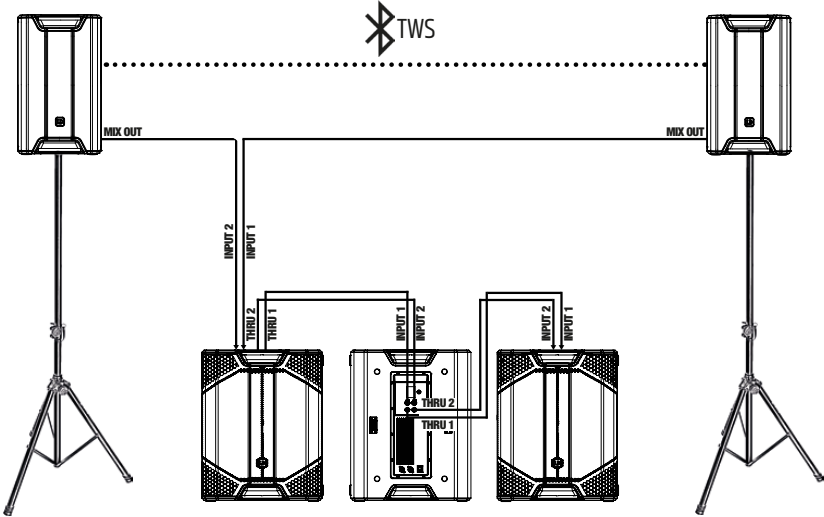
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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 & your body.

STEREO CONFIGURATION (2 SUBS)



STEREO CARDIOID CONFIGURATION (3 SUBS)



NOTES

[illegible]

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[illegible]

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