



# 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

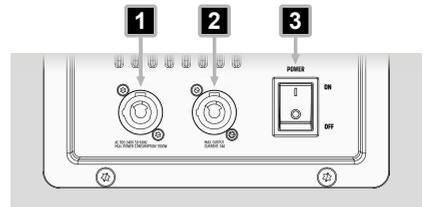


Download the app for full functionality!

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 - 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.

**Damage to the Device**

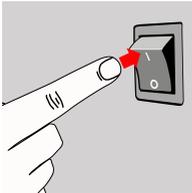


**NOTICE**

- 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.

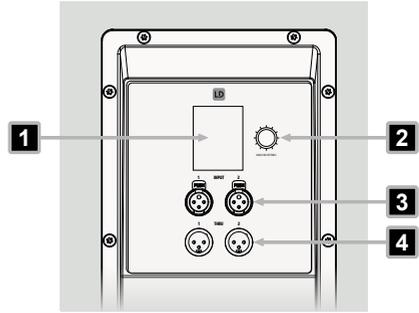
## 2.3 TURNING THE DEVICE ON OR OFF



- 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

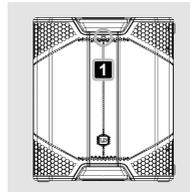
### 3.1 USER INTERFACE



- 1 **LC Display** - Main graphic colour display
- 2 **Rotary-Push Encoder (RPE)** - Controls the 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.

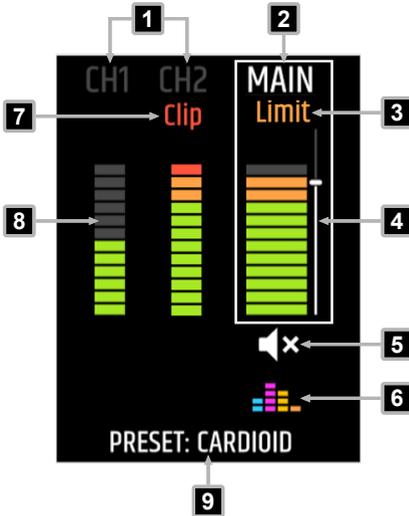
### 3.2 FRONT LED

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.

3.3 MAIN SCREEN

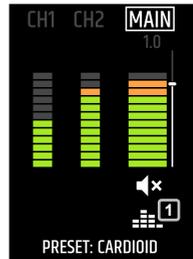


- 1 CH1 / CH2 - Indicates the input channel names
- 2 MAIN - Indicates the main channel name
- 3 Limit - Indicates that the main channel limiter is active
- 4 MAIN Channel Fader - Adjusts the main channel output volume
- 5 Mute - Toggles mute on / off
- 6 Equaliser - Opens the equaliser. If the equaliser 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

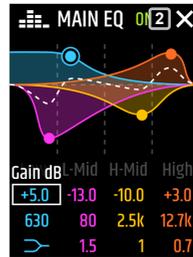
3.4 USING THE ROTARY-PUSH ENCODER

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.

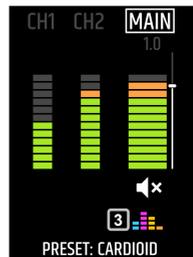
The menu follows a left to right and top to bottom grid structure. When you reach the bottom right menu item, the grid starts again at the top left. The cursor jumps back to the **MAIN** channel after approximately 10 seconds of inactivity.



- 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.

### 3.5 LOADING A SUBWOOFER PRESET ON THE DEVICE



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

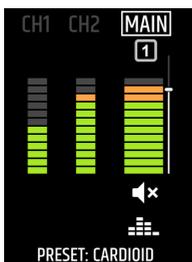
⇒ The **EQ PRESETS** screen appears.



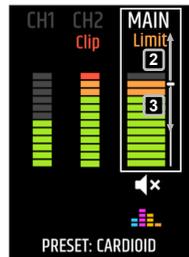
- 3 Turn the **RPE** until a preset is highlighted.
  - a) If necessary, select **Monitor ...** and push the **RPE** to access the monitor presets.
- 4 Push the **RPE** to activate the corresponding preset.

⇒ The corresponding preset is applied to the output signal.

### 3.6 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**.

## 4 | INPUT CONNECTIONS

### 4.1 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.

4.2 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

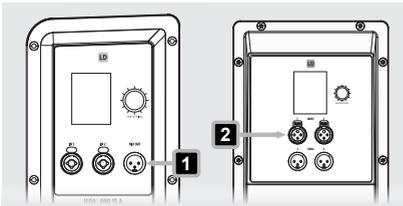
- a. Connect line level devices, such as mixing consoles, to the line input only.



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.



5 | OUTPUT CONNECTIONS

5.1 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.

6 | LOUDSPEAKER SETUPS

6.1 STEREO CONFIGURATION WITH 2 TOPS AND 2 SUBWOOFERS

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

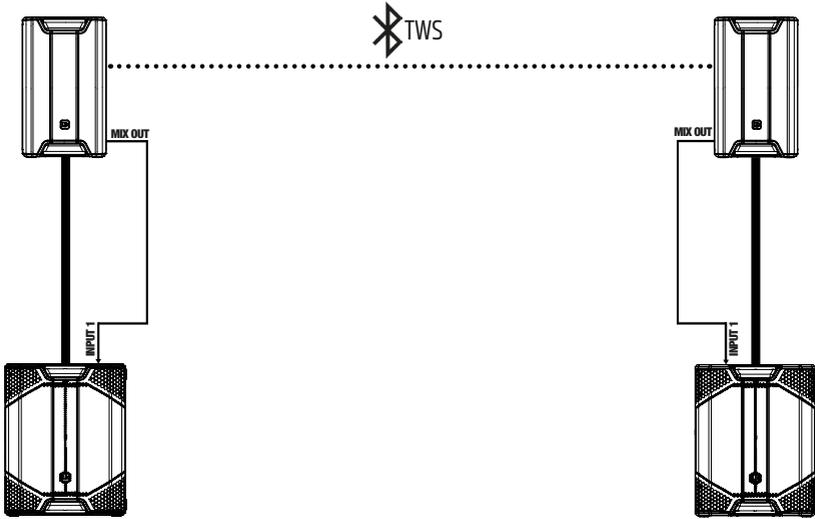
See also:  
Stereo Configuration (2 Subs) [▶ 6]

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]

STEREO CONFIGURATION (2 SUBS)



STEREO CARDIOID CONFIGURATION (3 SUBS)

