



ICOA® PRO 12 A / 15 A

12" & 15" POWERED COAXIAL HIGH-PERFORMANCE PA LOUDSPEAKER WITH BLUETOOTH® AND APP
LDICOA15APRO(W); LDICOA12APRO(W)

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.



ICOA PRO 12 A



ICOA PRO 15 A

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

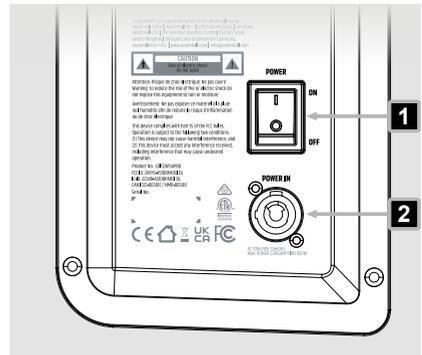


Download the app for full functionality!

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 - On / Off switch
- 2 POWER IN - Device power socket

2.2 CONNECTING A MAINS POWER CABLE



Mains voltage

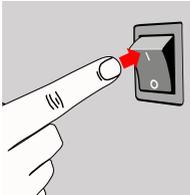
Risk of electric shock

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

CAUTION

- 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.

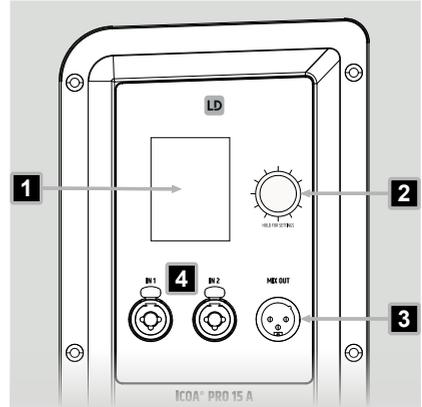
2.3 TURNING THE DEVICE ON OR OFF



- 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

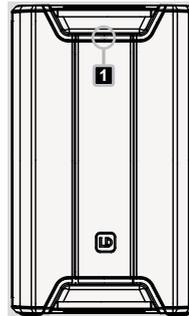
3.1 USER INTERFACE



- 1 **LC Display** - Main graphic colour display
- 2 **Rotary-Push Encoder (RPE)** - Controls the main menu items. Push and hold 2 seconds to access the settings.
- 3 **MIX OUT** - Audio output socket (balanced 3-pin XLR). Outputs the prefade main mix.
- 4 **IN 1 & IN 2** - Balanced XLR / 6.35 mm jack combo sockets for mic or line connections

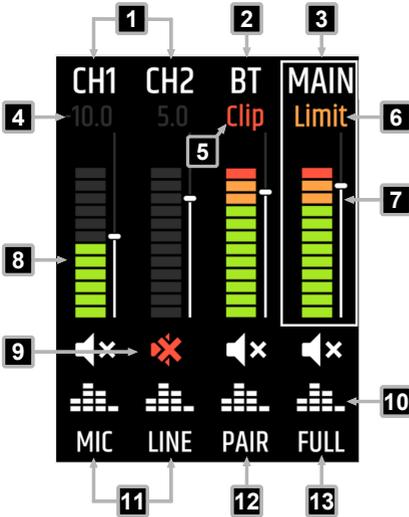
3.2 FRONT LED

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 OVERVIEW



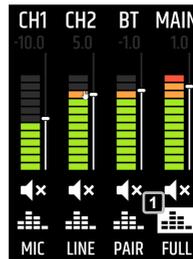
- 1 **CH1 / CH2** - Channel names for input channels 1 and 2. Select to access the channel fader (see 7)
- 2 **BT** - Channel name for the Bluetooth® channel. Select to access the channel fader (see 5)
- 3 **MAIN** - Channel name for the main output channel. Select to access the channel fader (see 7)
- 4 **Fader Value** - Indicates the fader value in decibels (-80 dB ... +10 dB)
- 5 **Clip** - Indicates that the corresponding input channel is clipping
- 6 **Limit** - Indicates that the **MAIN** channel limiter is active
- 7 **Channel Fader** - Increases / decreases the output volume of the corresponding input channel
- 8 **Metering** - 12-segment channel metering
- 9 **Mute** - Toggles mute on or off for the corresponding channel

- 10 **Equaliser** - Opens the equaliser sub menu. If the equaliser is flat, the icon is white.
- 11 **MIC / LINE** - Toggles **MIC** or **LINE** input for the corresponding channel
- 12 **PAIR** - Opens the Bluetooth® channel pairing menu
- 13 **Speaker Preset** - Opens the speaker preset sub menu (**FULL**, **FLAT**, **MON**, **SAT**)

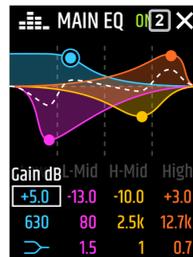
3.4 USING THE ROTARY-PUSH ENCODER

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.

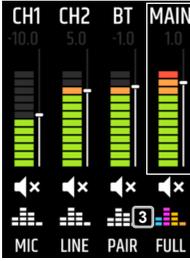
The menu follows a left to right and top to bottom grid structure. When you reach the bottom right menu item, the grid starts again at the top left. The cursor jumps back to the **MAIN** channel after approximately 10 seconds of inactivity.



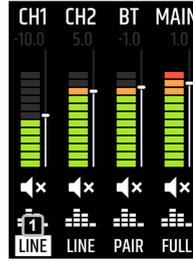
- 1 In the main screen, turn the **RPE** clockwise until is highlighted. **1**
- 2 Push the **RPE** to access the **MAIN EQ** sub menu.



- ⇒ 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.



- 2 Set the input to mic level or line level:
 - a) Turn the **rotary-push encoder (RPE)** until **MIC** or **LINE** in the corresponding channel is highlighted. **1**
 - b) Push the **RPE** to toggle the **MIC** or **LINE** input.

- 3 Connect a mic or line input source to **IN 1** or **IN 2**.
- 4 Turn up the volume of the corresponding channel.

4 | AUDIO PLAYBACK

4.1 CONNECTING AN INPUT SOURCE TO THE MIC / LINE INPUT



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.



The **ICOA[®] PRO** does not support 48 V phantom power.



When using the mic level input, a lowcut filter (100 Hz) is applied to the channel.

✓ You have a 3-pin XLR cable.

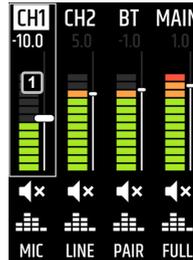
- 1 Turn down the volume of the corresponding channel.

4.2 ADJUSTING THE CHANNEL VOLUME

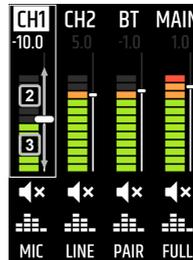
Find the procedure to adjust the channel volume for **CH1** below as an example. Proceed in the same way for **CH2** and the Bluetooth[®] (**BT**) channel.



The **ICOA[®] PRO** does not have a separate gain control. The preamp adjusts depending on the input source.

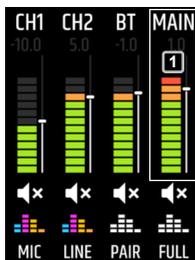


- 1 Turn the **rotary-push encoder (RPE)** until **CH1** is highlighted. **1**
- 2 Push the **RPE**.

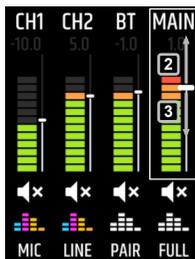


- 3 Turn the **RPE** clockwise to increase the input volume **2** and anticlockwise to decrease it **3**.

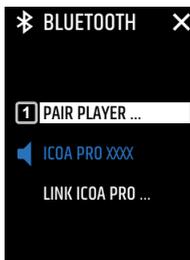
4.3 ADJUSTING THE MAIN VOLUME



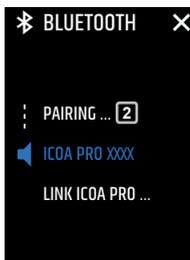
- 1 Turn the **rotary-push encoder (RPE)** until the **MAIN** channel is highlighted. **1**
- 2 Push the **RPE**.



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



- 1 If necessary, turn the **rotary-push encoder (RPE)** until **PAIR PLAYER ...** is highlighted. **1**



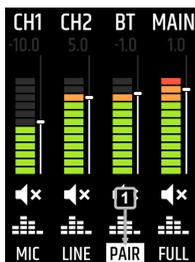
- 2 Push the **RPE** to start the pairing process.
⇒ **PAIRING ...** is indicated. **2**

i After starting the pairing process, it will remain active for approximately 1 minute.

5 | WIRELESS CONNECTIONS

5.1 BLUETOOTH®

5.1.1 OPENING THE BLUETOOTH® MENU ON THE DEVICE



- 1 In the **ICOA® PRO** main screen, turn the **rotary-push encoder (RPE)** until **PAIR** **1** is highlighted.
⇒ The **Bluetooth®** menu appears.

5.1.2 PAIRING A MOBILE DEVICE VIA BLUETOOTH® FOR AUDIO PLAYBACK

- ✓ You have a Bluetooth®-ready mobile device, such as a smartphone or tablet.

- 3 If necessary, turn on Bluetooth® on your mobile device.
- 4 On the Bluetooth® devices list of your mobile device, choose the **ICOA® PRO** to pair.

i The **ICOA® PRO** shows up as **ICOA® PRO XXXX**. The four digits represent the individual device ID.



- ⇒ If the pairing process was successful, your mobile device shows up as **PLAYER 3**.
⇒ Your mobile device is paired and ready for audio playback.

 If your **ICOA® PRO** is already paired via Bluetooth®, it will not appear in the Bluetooth® menu of other mobile devices. Unpair the currently paired mobile device and repeat the pairing process to make the **ICOA® PRO** available for other devices.

5.1.3 UNPAIRING A BLUETOOTH® DEVICE



- ✓ You have a Bluetooth®-ready device paired to your **ICOA® PRO**.
 - 1** Turn the **RPE** until **UNPAIR 1** is highlighted.
 - 2** Push the **RPE**.
- ⇒ Your device is no longer paired with the **ICOA® PRO**.

5.2 TRUE WIRELESS STEREO (TWS)

5.2.1 ABOUT TRUE WIRELESS STEREO (TWS)

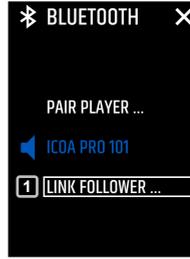
True Wireless Stereo (TWS) is a Bluetooth®-based technology. It is used to connect wireless audio devices with each other providing high sound quality and stereo playback capabilities.

 For TWS linking use only **ICOA® PRO** devices with the same loudspeaker size (12" or 15").

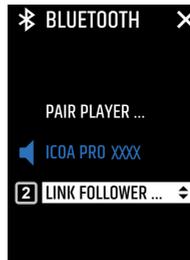
The **(M)** next to the name of the first **ICOA® PRO** indicates that this device is the **Main** device. The **(F)** next to the name of the second **ICOA® PRO** indicates that this device is a **Follower**.

 While using TWS, you can only pair Bluetooth® audio playback devices to your **Main ICOA® PRO**, not to the **Follower ICOA® PRO**.

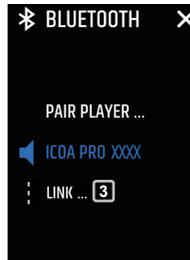
5.2.2 PREPARING THE ICOA® PRO AS MAIN (M) DEVICE FOR LINKING



- 1** In the Bluetooth® menu, turn the **rotary-push encoder (RPE)** until **LINK FOLLOWER ...** is highlighted. **1**
- 2** Push the **RPE** to access the linking menu.



- 3** If necessary, turn the **RPE** to select **Link Follower ...** **2**.
- 4** Push the **RPE** to start the linking process.



- ⇒ **Link ...** **3** is indicated and a second **ICOA® PRO** can be linked as follower.

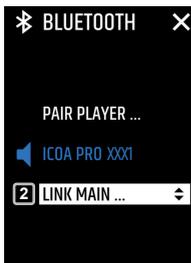
 After starting the linking process, it will remain active for approximately 1 minute.

5.2.3 LINKING A SECOND ICOA® PRO AS FOLLOWER (F) DEVICE

- ✓ Two ICOA® PRO are switched on and accessible via True Wireless Stereo (TWS).
- ✓ You have started the linking process with **LINK FOLLOWER ...** on another ICOA® PRO.



- 1 In the Bluetooth® menu, turn the rotary-push encoder (RPE) until **LINK FOLLOWER ...** **1** is highlighted.
- 2 Push the RPE to access the linking menu.



- 3 Turn the RPE until **LINK MAIN ...** is highlighted. **2**
- 4 Push the RPE to start the linking process.

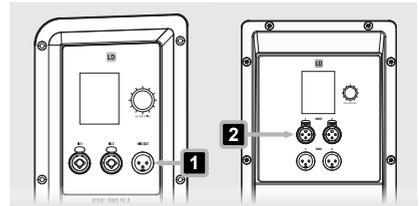


⇒ After a successful linking process, the **ICOA® PRO (F)** shows up on the **ICOA® PRO (M)** and vice versa. **3**

6 | OUTPUT CONNECTIONS

6.1 CONNECTING AN ICOA® PRO SUBWOOFER VIA MIX OUT

- 1 Connect the **ICOA® PRO MIX OUT** **1** to the **ICOA® PRO subwoofer INPUT 1** **2** using a 3-pin XLR cable.
- ⇒ The **ICOA® PRO** subwoofer is fed by the **ICOA® PRO** prefade main mix.



7 | LOUSPEAKER SETUPS

7.1 STEREO CONFIGURATION WITH 2 TOPS AND 2 SUBWOOFERS

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

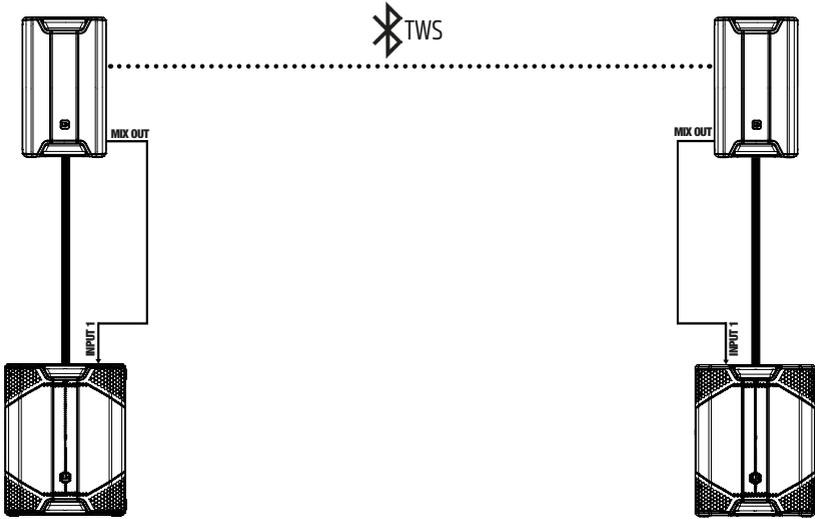
See also:
Stereo Configuration (2 Subs) [▶ 8]

7.2 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) [▶ 9]

STEREO CONFIGURATION (2 SUBS)



STEREO CARDIOID CONFIGURATION (3 SUBS)

