

PANEL 2 + PANEL 4 (P2 / P4)

2x2 and 4x4 Audio Interfaces

Next level Design. Exceptional Performance.

The iCON P2 and P4 combine striking modern design with clear, purposeful control. With clean lines and a minimal footprint, both models offer an elegant, refined solution for modern audio workflows. The P2 delivers focused, compact control, while the P4 expands on the same design language to suit broader creative demands. Built for clarity, speed, and flexibility, each Panel unit features an intuitive layout, professional connectivity, and a bold visual presence that stands out in any creative workspace







Safety Precautions

Carefully read these Usage and Safety Precautions <u>before</u> use to ensure proper handling of the product. This section uses symbols to highlight important precautions aimed at preventing harm or damage to users or others due to improper use. Below are the symbols and their meanings:

WARMING

Indicates actions that may result in severe injury or death.

⚠ CAUTION

Indicates actions that may lead to injury or equipment damage.

Other symbols used

Indicates a prohibited action.

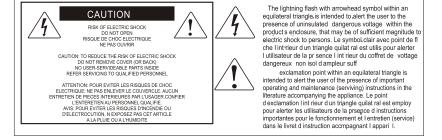
Indicates an action that is mandatory.

WARNING:

Power

Products that use external DC power supplies:

- Always use the specified DC power supply adapter.
- Never exceed the ratings of outlets and other electrical wiring equipment.
- Prior to using equipment in a foreign country or region with a different electrical voltage, always consult with your local iCON distributor/retailer that carries iCON Pro Audio products or iCON Pro Audio support. Always use the approved, appropriate DC adapter as specified by iCON Pro Audio.
- Carefully study the warning indications regarding the DC power supply before use.



WARNING: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture

Repairs and Alterations

 Do not open the case or make a repair to the device yourself. Always refer repairs or required alteration to iCON Pro Audio's tech support.

△ CAUTION:

■ How to Handle the Product

- Handle the product carefully to prevent drops, bumps, or applying excessive force to the unit.
- Avoid allowing liquids or foreign objects to enter the unit.

■ Operational environment

- O Do not use in extremely high or low temperatures.
- O Do not use near heaters, stoves and other heat sources.
- Avoid high humidity or areas prone to water splashes.

■ AC Adapters + DC Adapters

- Always disconnect the plug, not the cord, when unplugging.
- Unplug the adapter when the unit is not in use for extended periods or during lightning storms.

■ Connecting cables and devices

- Ensure all equipment is powered off before connecting any cables or external devices.
- Disconnect all cables and accessories before moving the device to avoid damage.

Microphones

- Turn off the power to the device before connecting any microphones.
- Handle microphone plugs gently to prevent damage.

■ Volume

• Avoid prolonged use at high volume levels to protect your hearing.

Precautions for Operational Use

■ Interference

This product is designed to limit electromagnetic emissions and resist external interference. However, placing it near devices that are highly sensitive to interference or emit strong electromagnetic waves may cause disruptions. If interference occurs, increase the distance between this product and the other equipment. Try reorienting the devices, changing frequency/channel (if appropriate).

Electromagnetic interference can affect any electronic device, potentially causing malfunctions, data corruption, or other issues. Exercise caution when using this product in proximity to other electronic devices.

■ Cleaning

To clean the exterior, use a soft, dry cloth. If required, very slightly dampen a suitable cloth.

For rubber or silicone components, gently clean with a damp, lint-free cloth. Avoid abrasive cleaners, waxes, or solvents such as alcohol, benzene, or paint thinners.

■ Malfunction

In the event that the device malfunctions or is damaged, immediately turn it off, disconnect the power source, remove batteries, and unplug all cables and connected devices. Contact iCON Pro Audio technical support.

In addition, please....

- 1. Do not block any ventilation openings or interfere with the proper ventilation of this unit. Install in accordance with the manufacturer's instructions.
- 2. Do not interfere with the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. These are designated for your safety. If the provided plug does not fit into your outlet, consult an electrician.
- 3. Protect the power cord from being walked on or otherwise damaged by items placed on or against them. Particular attention should be given to the plugs, receptacles, and the point where the cord exits the appliance.
- 4. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
- 5. Only use attachments/accessories specified by iCON.

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Introduction

Firstly, congratulations on your purchase of the iCON Pro Audio Panel 2 or the Panel 4, (the P2 and P4). They are very similar with one major difference - the type and amount of inputs. Functionality remains largely the same otherwise.

Panel4 (P4)

2x high quality Combo XLR with 1/4 inch (6.35mm) jacks for mic, line or instruments

Panel2 (P2)

1x high quality Combo XLR with 1/4 inch (6.35mm) jack for a line input and 1x 1/4 inch (6.35mm) instrument input

In these pages, you'll find a detailed description of the features of the Panel devices (which will also be referred to as 'Panel series' devices or the P2 and P4), as well as a guided tour through their top, front and rear panels, step-by-step instructions for their setup and use and a full list of specifications.

As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event that the product is returned for servicing, the original packaging (or reasonable equivalent) is required. With proper care and adequate air circulation, your Panel device will operate flawlessly for many years to come.

We trust that this product will provide years of excellent service and in the unlikely event that your product does not perform to the highest standard, every effort will be made to address the issue.

What's in the package?

- Panel 2 or Panel 4 device
- 1.2-meter A-C dual magnetic ring USB data cable x1
- OTG cable x1



Also included:

- IO Pro software
- Free technical support



Register your ICON Pro Audio product to your User Center

1. Check the serial number of your device

Please go to http://iconproaudio.com/registration or scan the QR code below.



Input your device's serial number and the other information on the screen. Click "Submit".

A message will pop up showing your device information such as model name and its serial number. Click "Register this device to my account". If you see any other message, please contact our after-sales service team

2. Log in to your User Center for existing users or sign up as a new user

Existing user: Please log into your User Center by inputting

your user name and password.

New user: Please click "Sign Up" and fill in all the information.

3. Download all useful materials

All your registered devices under your account will show on the page. Each product will be listed along with all its available files such as drivers, firmware, user manuals in different languages and bundled software etc. for download.

Overview

Welcome to the iCON Pro Audio family and to the P-series of devices - form and function working beautifully together.

The Panel 2 and Panel 4 audio interface devices (or P2 and P4) feature a bold, high-quality metal construction, offering both durability and a sleek, professional design suited for studio or mobile setups.

Both the P2 and P4 high end preamps boast 116dB Analog to Digital conversion and 116dB Digital to Analog conversion. The mic preamp (connected to the high quality Combo XLR input), on the P2 boast an impressive 0-65dB of gain and both preamps for the P4 boast a notable -8dB - 65dB gain range.

Both units feature a choice of 1/8 inch (3.5mm) and 1/4 inch (6.35mm) 'headphone out' sockets located at the front of the device, making it easy for collaborators when recording in a session, producing a streaming production, playing live or switching between headphone types to help monitor what your audio sounds like using a variety of headphone and earphone models.

No need for headphone splitters when say a guitarist and a vocalist are working together – simply plug in and your headphone monitoring is easily accessed.

The high gain headphone amplifier is exceptional on both devices - almost any set of headphones can be powered with plenty of gain so even the quietest audio passages can be analysed forensically.

The P4 offers two combo XLR connectors, whereas the P2 offers one. Both combine an XLR connection and a 1/4 inch (6.35mm) jack input in one housing.

The P2 also has a 1/4 inch (6.35mm) instrument input. This is for instruments like electric guitar or bass. In order to adjust the gain input, simply press the INS IN button and adjust the rotary encoder to taste. To switch to adjusting the gain for input 2 (the XLR/1/4 inch (6.35mm) combo input), simply ensure the INS IN button is not activated and adjust the rotary encoder.

Connect line level devices such as a drum machine via the 1/4 inch (6.35mm) input/s on the combo connectors on both devices. Typically, a TRS cable (balanced) is used for these line level connections.

The P4 features an INST button which switches the 1/4 inch (6.35mm) input from a line level input to an instrument level input, suitable for an electric guitar, for example.

Responsive and easy-to-read 9-segment stereo LED meters sit atop the device, providing accurate output level monitoring. Combined with dynamic ring LEDs for each mic, line, or INST input, they offer an intuitive and visually engaging workflow.

Both Panel series devices feature a +48V button which activates phantom power for microphones that require it. This can also be activated via the iO Prosoftware.

The devices can also be connected to iCON's innovative and highly popular AirMic devices. This means that the signal received from this wireless mic system (via its receiver) can be recorded directly to a DAW on your computer via the P2 or P4. This allows you to combine the AirMic's wireless signal with another mic. Ideal for podcasting from two separate locations

The possibilities don't end there, as other devices can be connected via the AirMic input - meaning that CD players or iPods can provide backing tracks for singers if desired, for example.

Direct monitoring (effectively bypassing processing on the computer) can be accessed by activating the illuminated button on top of the P2 and P4 devices.

The iO Pro software (which comes free with your device), and the Panel series devices work seamlessly together. This is partly due to the use of hardware controls, which can be recognised by iO Pro. For example, users may turn on +48V power within iO Pro or on the hardware itself, which will result in the '+48V' button becoming illuminated and 48 volts of power being assigned to the XLR connection (for use with certain mics). Similarly, adjusting input gain, Monitor On/Off etc. within the iO Pro software will result in the same adjustment on the Panel series devices.

Please note that Master Out and HP controls are not available in iO Pro for the P2 and P4 devices.

The iO Pro manual is available for download inside the application or on the product page at the iCON Pro Audio website, (https://iconproaudio.com/iopromanuals).

In summary, the iCON P2 and P4 audio interfaces deliver a perfect balance of funky modern design, intuitive functionality, high grade components and professional performance. Built for creators, engineers, and performers alike, they offer flexible connectivity, seamless software integration, and outstanding audio quality - all in a compact, stylish form.

Whether in the studio or on the move, these devices provide the control, clarity, and reliability needed to meet the demands of today's creative workflows.

Panel 4 (P4) Features

- 24-Bit 192KHz 4x4 analog I/O full duplex simultaneous recording and playback
- USB 2.0 high speed
- Extremely strong and durable metal chassis
- Very high audio quality (116dB Analog to Digital conversion 116dB Digital to Analog conversion)
- High-resolution analog mic preamps with OdB 65dB of gain
- 9 segment stereo LED output level meters
- Semi-circular, brightly colored LED indicators show gain settings and input gain level (once a signal is received, the LED fluctuates dynamically to reflect input gain)
- Stylish digital rotary gain encoders also allows users to control gain via iCON's iO Pro software
- Master Out & Headphone level potentiometers (hardware control only)
- Ability to use plugins in a live context whilst streaming/live via iCON iO Pro software
- +48V Phantom Power
- 4x illuminated buttons for +48V and INST options
- Illuminated MON button for direct monitoring
- Ability to connect to streaming services via iCON's super stable, high audio quality UNI OTG output
- Recessed UNI OTG port for cable protection and longevity
- Rock solid reliability with ARM M7 500MHz technology
- 2x high quality combo XLR with 1/4 inch (6.35mm) jacks for line or instrument inputs
- AirMic IN 1/8 inch (3.5mm) port for iCON Pro Audio's wireless mic system or other devices
- 2x headphone outputs (1/4 inch (6.35mm) + 1/8 inch (3.5mm) jacks)
- 2x line out 1/4 inch (6.35mm) unbalanced outputs
- OTG cable included allows connection to lightning/USB-C Android/iPhones together with phone charging capability
- Power input port for instances when the PC does not supply sufficient power
- Class-compliant with MacOS 10.15 or above & Windows 10 or above

P4 Top Panel



1. Input gain rotary encoders 1-2

These knobs control the input level for Mic/Inst/Line inputs 1 and 2. The semicircular LED ring surrounding the gain knob serves a dual purpose: When the knob is turned, the LED ring lights up statically, indicating the current gain setting – this provides a visual reference for how much preamp gain has been applied.

Once a signal is present (e.g. from a microphone), the LED ring becomes dynamic, fluctuating in real-time to reflect the incoming signal level. If a red light appears at the far right of the semi-circular LED indicator, it means the signal is clipping (distorting). In this case, you should lower the gain level to prevent distortion. Louder input causes the ring to expand and brighten, providing immediate visual feedback on signal strength and potential clipping.

2.+48V phantom power buttons

Press to supply +48V phantom power to the associated XLR input. This phantom power circuit is suitable for most condenser microphones. When powered on, the button text will illuminate in a red color.

3. INST buttons

This button switches the input source from the XLR input to the 1/4 inch (6.35mm) input and configures the signal path for instrument-level signals (e.g. electric guitars; use a TS cable).

When connecting line-level devices via the 1/4 inch (6.35mm) input, the INST button should be left off (use a TRS cable for line-level signals).

When activated, the INST button illuminates green.

4. MON button

When engaged, the MON button enables direct hardware monitoring by routing the microphone input signal straight to the headphone and master outputs, bypassing the computer and any associated drivers or processing. This provides a near-zero latency monitoring path. During this mode, playback from the computer (e.g. DAW output or system audio) is still audible, allowing both the direct input signal and host playback to be monitored simultaneously.

When the MON button is disengaged, input signals are routed through the computer via the audio driver. Monitoring and signal routing in this mode are handled by the DAW or host application, allowing for real-time processing, effects, or mixing prior to output. The MON button illuminates blue when engaged.

5. LED Meter

A 9-segment stereo LED meter which accurately displays the signal levels for the stereo output.

6. UNI OTG encoder

This control adjusts the output level for the UNI OTG signal path.

7. MASTER potentiometer

This dial controls the overall signal output.

8. Headphone volume potentiometer

Connect one or two pairs of stereo headphones to the 1/4 inch (6.35mm) and 1/8 inch (3.5mm) headphone output jacks.

This potentiometer controls the volume level for both headphone outputs simultaneously. (Note: Both outputs can be connected at the same time, but overall performance may vary depending on headphone impedance).

9. Power LED

This blue LFD indicates the device is ON

P4 Front Panel



1. 2 x combo XLR connectors (for mics) with 1/4 inch (6.35mm) jacks for instruments or line inputs

These are unbalanced instrument/balanced line inputs and balanced mic level inputs (XLR), connected to the P4 pre-amp. These hybrid connectors will accept a standard 3-pin XLR plug or a ¼ inch (6.35mm) TS or TRS connector.

The inner 1/4 inch connector is for line and instrument inputs and the XLR is intended for microphones. Use a TRS cable (balanced) for LINE inputs, (with the INST button OFF). A TS cable (unbalanced) can be used for instruments, (a TRS cable can also be used, but will become unbalanced in the same way as a TS cable), when INST is selected.

Ensure INST is selected when using an instrument like an electric guitar and OFF when connecting external equipment like a drum machine or preamp.

2. Headphone (HP) outputs

Connect your headphones to this 1/4 inch (6.35mm) jack output (2a) or 1/8 inch 3.5mm headphones (2b). Both outputs can be used simultaneously. However, overall performance may vary depending on headphone impedance. The headphone gain is controlled via the encoder on the top panel of the device.

3. UNI OTG port

The USB-C UNI OTG port allows you to connect a smart device (e.g. Android device or iOS device with a compatible OTG adapter or Apple Camera Kit). This port offers high dynamic range and excellent audio stability.

Important: The UNI OTG port includes a security feature which protects the cable. To ensure a proper connection, the USB-C plug must be <u>fully inserted</u> into the recessed port until it locks into place.

(See page 29 for more information about OTG).

P4 Back Panel



1. Power button

Press and hold to power the unit on. Press and hold for two seconds to turn the unit off. When powered, the button will illuminate in green.

2.+5V DC Power port

Use this port to connect an external power supply (e.g. a standard phone charger with USB-C cable) if your computer's USB port cannot provide sufficient power.

3. USB-C Port

Connect the device to your computer using this port and the included USB-C cable.

4. LINE OUT ports

Use these (unbalanced) ports to connect external speakers or other audio output devices.

5. AirMic IN

If you own the iCON Pro Audio AirMic system, connect the receiver here to capture high-quality wireless audio directly into the unit. You can also use this input for other sources, such as a CD player or MP3 player. Note that the input has a fixed gain on the P4, so volume must be controlled directly from the connected device. Unlike the P4, the P2 allows onboard gain adjustment for this input.

Panel 2 (P2) Features:

- 24-Bit 192KHz 2x2 analog I/O full duplex simultaneous recording and playback
- USB 2.0 high speed
- Extremely strong and durable metal chassis
- Very high audio quality (116dB Analog to Digital conversion 116dB Digital to Analog conversion)
- High-resolution analog mic preamp with 65dB of gain
- 9 segment stereo LED output level meters
- A semi-circular, brightly colored LED indicator showing gain setting and input gain level (once a signal is received, the LED fluctuates dynamically to reflect input gain)
- Stylish digital rotary gain encoders also allows users to control gain via iCON's iO Pro software
- Master Out & Headphone level potentiometers (hardware control only)
- Ability to use plugins in a live context whilst streaming/live via iCON iO Pro software
- +48V Phantom Power
- Illuminated buttons for +48V and INST options
- Illuminated MON button for direct monitoring
- Ability to connect to streaming services via iCON's super stable, high audio quality UNI OTG output
- Recessed UNI OTG port for cable protection and longevity
- Rock solid reliability with ARM M7 500MHz technology
- 1x high quality combo XLR with 1/4 inch (6.35mm) jack for line inputs
- 1x 1/4 inch (6.35mm) input for instruments (to control gain press INST button, then adjust the green rotary encoder)
- AirMic IN 1/8 inch (3.5mm) port for iCON Pro Audio's wireless mic system or other devices
- 2x headphone outputs (1/4 inch (6.35mm) + 1/8 inch (3.5mm) jacks)
- 2x line out 1/4 inch (6.35mm) unbalanced outputs
- OTG cable included allows connection to lightning/USB-C Android/iPhones together with phone charging capability
- Power input port for instances when the PC does not supply sufficient power
- Class-compliant with MacOS 10.15 or above & Windows 10 or above

P2 Top Panel



1. Input gain encoder

This knob controls the input level for input 1 and Input 2 as well as the gain level received from AirMic IN. AirMic IN shares gain control with input 2 and cannot be independently adjusted.

By default, the top left encoder adjusts the input level for Input 1. Pressing the INST button (4) switches control to Input 2 – specifically, the INST IN 1/4 inch (6.35mm) connector. In this mode, the encoder also affects the signal from the AirMic IN input, if connected.

If both inputs are used at the same time (e.g., an electric guitar via INST IN and a CD/MP3 player or iCON AirMic via AirMic IN), users must carefully manage signal levels. Since the encoder controls a shared gain circuit, it cannot adjust INST IN and AirMic IN separately.

As such, the output volume of the device connected to AirMic IN should be adjusted manually at the source.

The semicircular LED ring surrounding the gain knob serves a dual purpose: When the knob is turned, the LED ring lights up statically, indicating the current gain setting - this provides a visual reference for how much preamp gain has been applied.

Once a signal is present (e.g. from a microphone), the LED ring becomes dynamic, fluctuating in real-time to reflect the incoming signal level. Louder input causes the ring to expand and brighten, providing immediate visual feedback on signal strength and potential clipping. If the input level is too high and clipping occurs, the far-right section of the LED ring illuminates red, providing a clear warning to reduce the gain.

2. UNI OTG encoder

This control adjusts the output level for the UNI OTG signal path.

3.+48V phantom power button

Press to supply +48V phantom power to the XLR input. This phantom power circuit is suitable for most condenser microphones. When powered on, the button text will illuminate in a red color.

4. INST button

Pressing this button switches the input to the 1/4 inch (6.35mm) INST IN jack (and AirMic IN if connected), optimising it for instrument-level signals like electric guitars. When the INST button is on (lit green), the green dial controls the gain for the INST IN input (Input 2). When it's off, the green dial controls the gain for the XLR/1/4 inch combo input (Input 1). *Reminder:* the 1/4 inch input in the XLR combo input is for line level inputs only.

See page 20 for a visual reference.

5. MON button

When engaged, the MON button enables direct hardware monitoring by routing the microphone input signal straight to the headphone and master outputs, bypassing the computer and any associated drivers or processing. This provides a near-zero latency monitoring path. During this mode, playback from the computer (e.g. DAW output or system audio) is still audible, allowing both the direct input signal and host playback to be monitored simultaneously.

When the MON button is disengaged, input signals are routed through the computer via the audio driver. Monitoring and signal routing in this mode are handled by the DAW or host application, allowing for real-time processing, effects, or mixing prior to output. The MON button illuminates blue when engaged.

6. LED Meter

A 9-segment stereo LED meter which accurately displays the signal levels for the stereo output.

7. MASTER potentiometer

This dial controls the overall output signal level.

8. Headphone volume potentiometer

Connect one or two pairs of stereo headphones to the 1/4 inch (6.35mm) and 1/8 inch (3.5mm) headphone output jacks.

This potentiometer controls the volume level for both headphone outputs simultaneously.

9. Power LED

This blue LED indicates the device is ON.

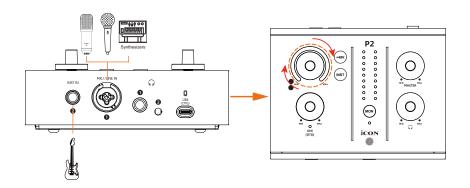
P2 Front Panel



1. INST IN

A 1/4 inch (6.35mm) input for instruments. The amount of gain applied is controlled via the top-left knob on the device, when the 'INST IN' button is activated (illuminated in a green color). Input 2's gain circuit is shared with the AirMic IN connector. If an AirMic or alternative device is connected, ensure the output of this device is managed to complement the INST IN signal.

See the diagram below for an easy visual guide on how to use the gain for input 1 (XLR/LINE IN) and input 2 (INST IN).



Note: INST IN and AirMic IN share the same input channel within the device. The gain knob controls the overall input level for this channel, so you must manually adjust the output volume of any device connected to the AirMic IN port to achieve the desired level.

2.1 x combo XLR (for mics) with 1/4 inch (6.35mm) jack for line inputs

This a balanced line input and balanced mic level input (XLR), connected to the P2 pre-amp. This hybrid connector will accept a standard 3-pin XLR plug or a 1/4 inch (6.35mm) TS or TRS connector.

A TRS cable (balanced) is recommended for LINE inputs.

3. Headphone (HP) outputs

Connect your headphones to this 1/4 inch (6.35mm) jack output (3a) or 3.5mm headphones (3b). Both outputs can be used simultaneously. The headphone gain is controlled via the encoder on the top panel of the device. Overall performance may vary depending on headphone impedance

4. UNI OTG

The USB-C UNI OTG port allows you to connect a smart device (e.g. Android or iOS device). The OTG cable provided offers connections to lightning and USB-C devices, coupled with the ability to charge your phone.

This port offers high dynamic range and excellent audio stability.

Important: The UNI OTG port includes a security feature which protects the cable. To ensure a proper connection, the USB-C plug must be **fully inserted** until it locks into place.

(See page 29 for more information about OTG).

P2 Rear Panel



1. Power button

Press and hold to power the unit on or off. When powered, the button will illuminate in green.

2.+5V DC Power port

Use this port to connect an external power supply (e.g. a standard phone charger with USB-C cable) if your computer's USB port cannot provide sufficient power.

3. USB-C Port

Connect the device to your computer using this port and the included USB-C cable.

4. LINE OUT ports

Use these (unbalanced) ports to connect external speakers or other audio output devices.

5. AirMic IN

If you own the iCON Pro Audio AirMic system, connect the receiver here to capture high-quality wireless audio directly into the unit. Alternative devices may be used (MP3 players etc.).

A Brief Explanation of the Differences Between 'Line in' and 'Instrument Inputs'
"Line in" and "instrument in" are two types of inputs found on audio interfaces, and they differ in terms of the type of signal they can receive.

A line in input is designed to receive a line level signal, which is a signal that has been pre-amplified and has a higher voltage than an instrument-level signal. Line level signals are typically used for sources such as mixers, CD players, or other audio playback devices. The line in input is usually a balanced input that accepts a TRS (Tip-Ring-Sleeve) connector.

An instrument input, on the other hand, is designed to receive a lower instrument level signal. This type of signal is generated by instruments such as guitars, basses, keyboards, and other electronic instruments. Instrument level signals are usually unbalanced, meaning they have a single signal wire and a ground wire. The instrument in input is usually an unbalanced TS (Tip-Sleeve) connector.

As a general rule, it is always best to connect external devices with the input and output volume low, for ear safety and the protection of equipment, (in case of feedback or unexpected interference.

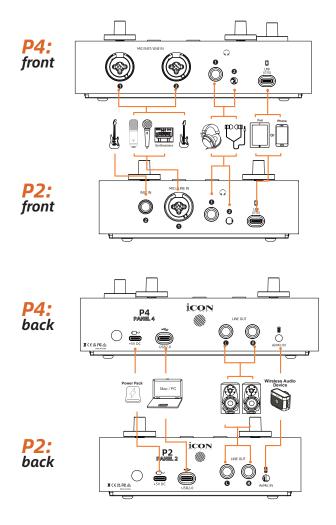
See 'TRS, TS and XLR Connections' on Page 25 for more details.

Hardware Connections

Connect the P2 or P4 outputs to your amplifier, powered monitors or surround system.

If you are monitoring through headphones, connect your headphones to the device's headphone output.

Connect your microphones, instruments or other line level analog sources to the device's analog inputs. Ensure the +48V switch is turned OFF for microphones that <u>do not</u> require phantom power. For safety reasons, please ensure headphones are not worn when connecting devices and that all input and output volumes (of all devices) are at a low level or zero.

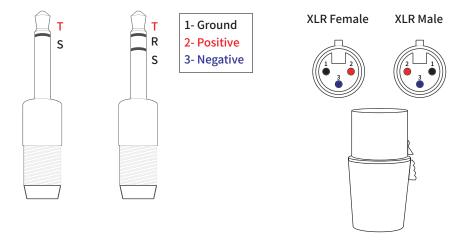


TRS, TS and XLR Connections

Line outputs are unbalanced on the P2 and P4 devices. These connections are suitable for TS (unbalanced) cables, although TRS (balanced) cables *can* be used for these connections, (they will be unbalanced, however). You will be able to distinguish a ¼ inch (6.35mm) TRS (balanced) cable from a TS (unbalanced) cable by their appearance.

A TS cable has two contact points: the Tip (T) and the Sleeve (S) as seen in the diagram, below. These cables are typically used for mono and unbalanced signals such as an electric guitar.

A TRS cable adds an extra layer - the ring. It has three conductors: Tip, Ring, and Sleeve.



The 1/4 inch (6.35mm) input portion of the combo input at the front of the device is automatically assigned as a LINE input on the Panel 2. When using a combo XLR/ $\frac{1}{4}$ inch (6.35mm) input, Panel 4 users may switch to a LINE input either using the device itself (by deselecting INST so that it is not lit) or via iO Pro. In so doing, you are providing a suitable input level for your device when using the $\frac{1}{4}$ inch (6.35mm) connector.

Connect an external device/s (whilst powered off) using TRS to TRS connections (1/4 inch (6.35mm) connectors) or, if preferred and available, an XLR to TRS 1/4 inch connector, (using the TRS connector on the audio interface and the XLR connector on the outboard equipment). As +48V phantom power only travels via an XLR connection, the TRS connection will be safe.

If your microphone requires phantom power and you have connected outboard equipment such as a preamp to your interface, always use the phantom power (+48V) on the outboard equipment rather than your audio device. If you have correctly ensured the outboard equipment is connected to the audio interface via a LINE connection using a TRS cable to the ¼ inch (6.35mm) portion of the XLR combo inputs, even if +48V is accidently selected, phantom power will be safely bypassed.

The advice is to NEVER connect an external device such as a preamp to an audio interface using an XLR to XLR connection. Whilst this might seem like a good idea at first, (as XLR connections are balanced), if the +48V phantom power is accidently activated on the audio interface, this will send unneeded additional power through the XLR connection and may lead to damage to the interface device as well as preamp, (especially if the preamp has +48V phantom power already activated). Equally, it is possible that any connected equipment, regardless of whether it has phantom power, when receiving an unexpected 48V charge may be damaged. Therefore, as a general rule, when connecting equipment;

Use the 1/4 inch (6.35mm) portion of the XLR/ 1/4 inch (6.35mm) combo inputs using a TRS balanced cable only (bypasses +48V phantom power supply) - (ensure INST is OFF for the P4).

NEVER use XLR-XLR connections.

Remembering this may help eliminate some potentially expensive repair bills in the future!

If connecting an external device such as a channel strip to the audio interface, in order that you may complete tasks like perform high pass filters, add compression and coloration using 'tube' simulators and so on, you may be concerned that the signal will effectively pass through two preamps, adding unwanted additional signal coloration. Users can be assured that any coloration is negligible and that gain controls will be fully accessible to control the input signal of the channel strip.

The following paragraph applies to the P4 only.

Connecting instruments is normally executed using TS cables (unbalanced), although TRS cables can also be used. The connection is unbalanced when selecting INST, so even if you are using a TRS cable, the signal will remain unbalanced. It is important to remember when using an XLR/1/4 inch (6.35mm) combo input to connect an instrument such as an electric guitar, that INST has been previously selected and that input gain is at a reasonably low level before connecting the cable/s.

Users of the P2 are reminded that they should only use the 1/4 inch (6.35mm) input at the front of the device for instruments connected via a TS/TRS cable - and only use the XLR/1/4 inch (6.35mm) input for LINE inputs (1/4 inch (6.35mm) TRS) and XLR connections only.

In short, the usual practice would be:

Connecting LINE devices (drum machines, outboard gear etc.) - use TRS cables

If using an XLR connection on your outboard equipment to connect to your audio interface, it is best to choose an XLR to TRS 1/4 inch (6.35mm) cable (always using the XLR connection for the outboard equipment and the TRS connection for your audio interface). Otherwise, choose a good quality TRS to TRS 1/4 inch (6.35 mm) cable.

Note: This will remove any possibility of phantom power (+48V) being selected inadvertently on your audio interface and potentially damaging your equipment.

Connecting speakers/monitors – use TS cables (TRS cables are fine but will be equally as unbalanced as TS cables)

Connecting instruments - use TS cables OR TRS cables (both unbalanced)

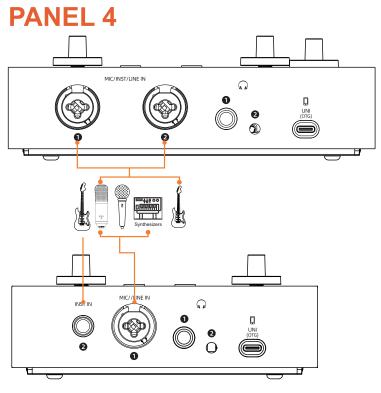
Connecting microphones - use XLR cables

Reminder:

NEVER use XLR cables to connect to external devices such as preamps as phantom power travels via XLR connections, (this is used to power microphones – external devices do not require phantom power and it could lead to damage to your device/s).

It may help to think of the XLR/1/4 inch (6.35mm) combo inputs as balanced unless INST is selected, in which case they become unbalanced (applies to P4 only).

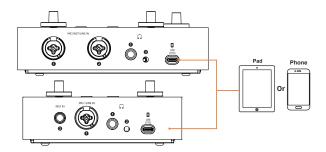
Different types of microphone connection method diagram



PANEL 2

Note: For dynamic microphone users, please make sure +48V phantom power switch is "OFF" before you plug in your microphone, otherwise it may cause damage to your microphone.

UNI OTG Connection



"OTG" connectivity is available via the P4 and P2 devices.

"OTG" stands for "On-The-Go". It refers to a feature available on many modern smartphones and tablets. OTG allows these devices to act as "hosts", enabling them to connect and interact with various USB peripherals.

"UNI" is iCON's own, improved method of OTG connection using new, advanced coding.

Please note: you must download and install the iO Pro software in order to use OTG (this should be running on the computer connected to your P2 or P4). Detailed instructions are in the iO Pro manual.

The Panel series 'UNI OTG' capability allows the user to broadcast on social media, taking advantage of the its superb audio capabilities. One of the unit's two extremely high quality ARM M7 chips along with new, especially created coding is used to enable the UNI OTG connection, resulting in extremely high quality audio and a super stable connection.

In order to use this feature, a special 'OTG cable must be used – a standard USB cable will not work. 'OTG' cables have an additional pin in the mobile phone connector, which allows the device to act as a 'host'.

- 1. Ensure that your smartphone or tablet supports OTG functionality. Most newer Android devices support OTG, but it's always a good idea to verify this in the device specifications or manual.
- 2. Locate the included OTG cable and connect this to your mobile phone or device.
- 3. Turn on the Panel series device. Connect the Panel series device via the USB-C port. Ensure iO Pro is running on your PC, as this will be required to necessitate routing, (more details in the iO Pro manual).
- 4. Plug the other end of the OTG cable into your mobile or tablet's charging or data port. You can choose between lightning or USB-C. Your device should recognize the Panel series device automatically.
- 5. Launch your chosen streaming or recording application on the device.

- 6. Check to see if it is receiving audio from the device. You should be able to hear the output of the Panel series device on your phone/device and/or see the signal of the output (depending on the app you are using).
- 7. Start streaming the audio output from the Panel series device will be reflected in your broadcast.
- 8. When you have completed your broadcast, safely eject the Panel series device. You can usually find an option to eject or safely remove USB 'peripherals' in the settings or notification panel of your device.

Please note that the above steps may vary slightly depending on your mobile/tablet device's manufacturer, model, operating system version, and streaming application. Additionally, not all mobile and tablet devices are guaranteed to work with OTG, as some may require specific drivers or have compatibility limitations.

The included OTG cable has everything you need to start broadcasting or recording via your mobile phone. Simply plug the lightning or USB-C section of the cable into your phone (pulling the lightning connector forward will reveal the USB-C connector). Use either of these to connect to your mobile phone, plugging the USB-C connector at the other end of the cable into your P2 or P4's OTG port.

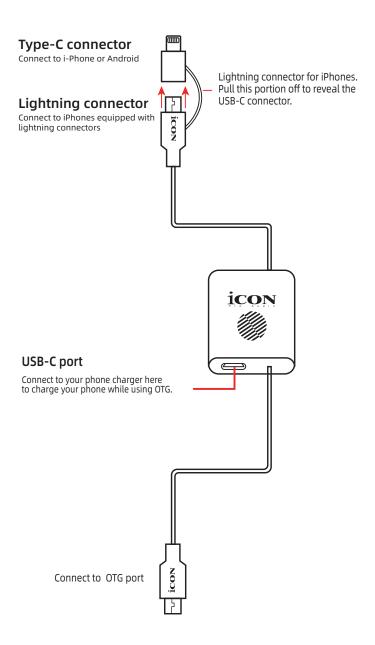
You may be excited to learn that iCON's innovative OTG cable comes equipped with its own power port (which is not standard for OTG cables and/or adapters). This means you can charge your phone while broadcasting or recording using OTG by connecting your standard phone charger's cable. This is significant when considering the amount of battery life recording videos can take.

Please note that if you are not using the included cable, an Apple Camera kit device or OTG adapter plus an OTG enabled USB cable is required when using OTG.

Your phone's settings may require alteration. Please see the latest iO Pro manual for further information on setting up your phone and device for OTG.

For more in-depth advice about using OTG, please see the iO Promanual; https://iconproaudio.com/iopro-manuals/

About the included OTG Cable



Installing your Panel series device

To ensure proper functionality of your P2 or P4 for either Mac or Windows, iCON's iO Pro software should be downloaded and installed.

Please remember to ensure you've connected your device to your computer (PC or Mac) and turned it on, *before* installation of iO Pro commences.

During the installation, iO Pro will install various drivers. For example, the loopback drivers for Mac systems. For Windows systems, iO Pro will prompt the user to install ASIO drivers toward the end of the process. Please note that it is vital for Windows users to install ASIO drivers.

Full installation instructions can be found in the iO Pro manual and the quick start guide for your device.

Steps:

- 1. Connect your device to your computer
- 2. Ensure your interface is powered on
- 3. Download and read the installation instructions (Quick Start Guide or iO Pro manual)
- 4. As a precaution, disconnect other peripheral devices such as sound modules from your computer
- 5. Download iO Pro
- 6. Run the iO Pro installer
- 7. Grant permissions for iO Pro to install drivers (Windows users *must* install the ASIO drivers or the device will not function)

Documentation is periodically updated. Please ensure you are following instructions from the latest version of the Quick Start Guide or iO Pro manual (available on the product page of the iconproaudio.com website).

iO Pro Virtual Mixer and Plugin Host

Experience ultimate audio control with iO Pro, the companion software for iCON Pro Audio interfaces. This powerful tool seamlessly integrates into your system, allowing you to transport audio effortlessly and utilize plugins without the need for a DAW. Store your favorite plugin chains as presets for easy access, whether you're podcasting, streaming, recording, or mixing. iO Pro empowers you to achieve professional-grade results with ease.

Developed through years of dedicated research and development, iO Pro is a mature, stable, and intelligent software solution. It enables live plugin use, flexible channel routing, direct monitoring, and plugin sidechaining, among many other features. Compatible with both Windows and Mac, iO Pro is designed to enhance your audio experience across all platforms.

Full instructions on how to install iO Pro are in the iO Pro manual which can be found on the product page on the iCON website (https://iconproaudio.com/). It is also easy to locate within the iO Pro software itself, by selecting HELP and then MANUAL, (which you won't be able to do until you install the software obviously!).

Whilst it is important to read the instructions in the iO Pro manual/Quick Start Guide, users are hereby advised to ensure that their devices are connected and switched on prior to the installation process.

Windows ASIO drivers will be installed once the installation of the iO Pro software is complete. It is important that you complete the process and ensure the computer can 'read' the interface, by leaving it on during the installation process. Additionally, Mac users should note that loopback drivers are installed via iO Pro.

If, for any reason you stop the process before you successfully install iO Pro (and/or the ASIO drivers for Windows users), it is good practice to uninstall iO Pro completely, (checking to make sure it is deleted from your program files) and begin the installation afresh (should you run into issues with multiple attempted installations, you may wish to try this). Ordinarily, you may simply reinstall iO Pro over the existing instance of the software.

To be clear - you do not need to have iO Pro running when using your interface in day-to-day operations if you wish to use it as a traditional interface with a DAW (you can simply download the necessary drivers and not use it again if you so wish).

Windows users: Install iO Pro and ASIO drivers **Mac users:** Install iO Pro and loopback drivers*

^{*} no special steps are required - iO Pro will install loopback drivers automatically

Using your device with iO Pro

Using ICON iO Pro in conjunction with your P2 or P4 provides many advantages and you will note many of the functions of the device are mirrored in the software. Every compatible iCON device has its own unique version of iCON iO Pro.

Please see the diagram below to see how the P4 functions are reflected in iO Pro.

P4:





P2:





As the diagrams on the previous pages suggest, functions such as '+48v phantom power' can be activated on the Panel series devices via iCON iO Pro. This is likely to prove extremely useful if say, an engineer is stationed at a computer with the iO Pro software and/or a DAW running and the Panel series device is located some distance away. The engineer doesn't constantly need to leave their area in order to make changes to the equipment. Not only is this convenient, but it will likely prove over time, a labor saving factor.

The iO Pro software provides opportunities to do what the hardware can't do alone. For example, the use of loopback, using software plugins in a live context or for streaming productions (without the use of a DAW), and flexible routing. For example, any input can be routed to any output within iO Pro.

PANEL 2:



PANEL 4:



In order to gain a full understanding of the software, please download and read the iO Pro manual.

Specifications: Panel 4 (P4)

Input/Output	4 inputs 4 outputs	
Input/Output	4 inputs 4 outputs	
Microphone Inputs(XLR-balanced)	2	
Analog Line Inputs	2	
Analog Monitor Outputs(DC coupled)	2	
Digital Output Port	1(USB OTG)	
Audio to Digital Conversion		
Dynamic Range	116dB(A-weighted)	
Signal-to-Noise Ratio	-116dB(A-weighted)	
Total Harmonic Distortion(THD+N)	-108dB(@ -1dBFS)	
Digital to Audio Conversion		
Dynamic Range	116dB(A-weighted)	
Signal-to-Noise Ratio	-116dB(A-weighted)	
Total Harmonic Distortion(THD+N)	-110dB(@ -1dBFS)	
Mic Inputs(XLR balanced)		
Frequency Response	20Hz – 20kHz(±0.1dB)	
Gain Range	-8dB - 65dB	
Nominal Input Level	16.5dBu – -66dBu	
Expected Source Impedance	150Ω-4200Ω	
Actual Load Impedance	4200Ω	
1/4" Line Inputs		
Frequency Response	20Hz-20kHz(±0.1dB)	
Gain Range	-8dB – 45dB	
Nominal Input Level	9dBu – -32dBu	
Expected Source Impedance	20kΩ	
Actual Load Impedance	10kΩ	
Headphone Outputs(Stereo,Unbalanced)		
Frequency Response	20Hz~20kHz(±1dB)	
Load Impedance	16~600Ω	
Output Impedance	10Ω	
Maximum Output Level	320mW+320mW , @ 32Ω 143mW+143mW , @ 100Ω 102mW+102mW , @ 150Ω 53mW+53mW , @ 300Ω 27mW+27mW , @ 600Ω	
Frequency Response	180mmX112mmX60.9mm(7.09"×4.41"×2.40")	
Weight	0.645kg	

Specifications: Panel 2 (P2)

Input/Output	2 inputs 2 outputs	
Microphone Inputs(XLR-balanced)	1	
Analog Line Inputs	2	
Analog Monitor Outputs(DC coupled)	2	
Digital Output Port	1(USB OTG)	
Audio to Digital Conversion		
Dynamic Range	116dB(A-weighted)	
Signal-to-Noise Ratio	-116dB(A-weighted)	
Total Harmonic Distortion(THD+N)	-108dB(@ -1dBFS)	
Digital to Audio Conversion		
Dynamic Range	116dB(A-weighted)	
Signal-to-Noise Ratio	-116dB(A-weighted)	
Total Harmonic Distortion(THD+N)	-110dB(@ -1dBFS)	
Mic Inputs(XLR balanced)		
Frequency Response	20Hz – 20kHz(±0.1dB)	
Gain Range	0dB - 65dB	
Nominal Input Level	26dBu – -66dBu	
Expected Source Impedance	150Ω – 2000Ω	
Actual Load Impedance	1200Ω	
1/4" Line Inputs		
Frequency Response	20Hz - 20kHz(±0.1dB)	
Gain Range	0dB - 30dB	
Nominal Input Level	9dBu – -32dBu	
Expected Source Impedance	20kΩ	
Actual Load Impedance	10kΩ	
Headphone Outputs(Stereo,Unbalanced)		
Frequency Response	20Hz~20kHz(±1dB)	
Load Impedance	16~600Ω	
Output Impedance	10Ω	
Maximum Output Level	320mW+320mW , @ 32Ω 143mW+143mW , @ 100Ω 102mW+102mW , @ 150Ω 53mW+53mW , @ 300Ω 27mW+27mW , @ 600Ω	
Frequency Response	150mmX112mmX60.9mm(5.91"×4.41"×2.40")	
Weight	0.54kg	

Services

If your P2 or P4 needs servicing, follow these instructions.

Check our online Help Center at **http://support.iconproaudio.com**, for information, knowledge, and downloads such as:

- 1. FAQ
- 2. Download
- 3. Product Registration
- 4. Video Tutorials

Very often you will find solutions on these pages. If you don't find a solution, create a support ticket at our online Help Center at the link below, and our technical support team will assist you as soon as we can.

Navigate to http://support.iconproaudio.com and then sign in to submit a ticket. Once you have submitted an inquiry ticket, our support team will assist you to resolve the problem with your ICON Pro Audio device as soon as possible.

To send defective products for service:

- 1. Ensure the problem is not related to operation error or external system devices.
- 2. Pack the unit in its original packaging including end card and box. This is very important. If you have lost the packaging, please make sure you have packed the unit properly. ICON is not responsible for any damage that occurs due to non-factory packing.
- 3. Ship to the ICON tech support center or the local return authorization. See our service centers and distributor service points at the link below:

If you are located in the **United States** please visit our help centre - https://support.iconproaudio.com and submit a ticket to the technical support team.

If you are located in **Europe**, please email the support team and wait for a response before sending the product to: **Sound Service GmbH European Headquarters**

Moriz-Seeler-Straße3 D-12489 Berlin Telephone: +49 (0)30 707 130-0

Fax: +49 (0)30 707 130-189 E-Mail: service@sound-service.eu If you are located in **Hong Kong** please email the support team and wait for a response before sending the product to:

ASIA OFFICE:

Unit F, 15/F., Fu Cheung Centre, No. 5-7 Wong Chuk Yueng Street, Fotan.

Sha Tin, N.T., Hong Kong. Tel: (852) 2398 2286

Fax: (852) 2789 3947

Email: info.asia@icon-global.com

For additional update information please visit our website at: www.iconproaudio.com



























www.iconproaudio.com