U44

USB2.0 High-Speed

4x4 software controlled audio interface with a large display screen

The U44 is a software-controlled, simple to use audio interface packed with features for your live, karaoke and studio performances.

In addition to great sounding preamps, the U44 boasts impressive AD/DA conversion rates, (122dB analog to digital conversion/127dB digital to analog conversion), two Neutrik ® Combo XLR Mic/line In Connectors, and 2 line/inst in 1/4 inch (6.35mm) jacks.

The parameters on the brightly lit, easy to read 7 inch TFT display can be adjusted via iCON's own ground breaking iO Pro software. 'Set it and forget it' or tinker to your hearts content! There is no need to remember your physical knob, button and faders settings - save all your settings as various 'snapshots' in iO Pro!

All the convenience. All the features. None of the hassle!

User manual

Important Safety Instructions

1. Read this manual thoroughly before using this unit.

2. Keep this manual for future reference.

3. Take notice of and comply with all warnings included in the user's manual or indicated on the appliance.

4. Follow all instructions included in this manual.

5. Do not expose this unit to rain or moisture. Avoid having water or other liquids spilled on this unit.

6. When cleaning the cabinet or other parts of this appliance, use only a dry or slightly damp soft cloth.

7. Do not block any ventilation openings or interfere with the proper ventilation of this unit. Install in accordance with the manufacturer's instructions.

8. Do not use or store near any heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.

9. 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.

10. 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.

11. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.

12. Only use attachments/accessories specified by the manufacturer.

13. Unplug this unit and all connected electrical equipment during lightning storms or when left unused for a long period of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way or fails to operate normally.

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

Contents

Introduction

Firstly, congratulations on your purchase of the U44 audio interface! In these pages, you'll find a detailed description of the features of the U44, as well as a guided tour through its 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 U44 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?

- U44 Audio Interface
- Quick Start Guide x 1
- USB 2.0 cable (Type-C to Type-A) x 1
- Power adapter (12V DC)

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 personal User Center for existing users or sign up as a new user**
   Existing user: Please log into your personal 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.

Features Pt. 1

Welcome to the U44 experience! Whether you are a studio owner, a live performer, or a karaoke aficionado, the U44 has you covered!

The key feature of the U44 is that it boasts a large display screen and no knobs, no switches, no faders and no dials. Everything is controlled by iCON iO Pro software.

iCON iO Pro is a sophisticated Virtual Mixer and Plugin Host designed exclusively for iCON Pro Audio interfaces. Serving as the ultimate audio control center for your computer, this software allows you to seamlessly manage audio across your system, utilize plugins without the need for a DAW, and save your favorite plugin chains as presets for quick access.

Whether you're podcasting, streaming, recording, or performing live, iO Pro empowers you to achieve professional quality results effortlessly.

Developed from years of dedicated research and development by iCON's expert programmers, iO Pro is a mature, stable, and intelligent software solution. It enables live plugin use without a DAW, supports flexible channel routing, direct monitoring, plugin sidechaining, and much more, providing exceptional value to both Windows and Mac users.

With impressive127dB Digital to Analog conversion and 122dB Analog to Digital conversion, the U44 hardware simply outperforms similar devices in its class and price range in terms of performance and features. The U44 boasts an open, natural sound that challenges dedicated high-end converters and premium audio interface devices.

Two 'headphones out' sockets conveniently placed either side of the U44 make it easy for collaborators when recording in a session or monitoring live performances or internet broadcasts. Each headphone out connection provides up to 78dB gain.

The U44 features two high grade Combo XLR Mic/Line In Connectors, which combine an XLR connection and a 1/4 inch jack in one housing as well as two separate 1/4 inch (6.35mm) line inputs. Each of these four channels has its own display section on the LCD display. Each microphone input offers up to 62dB of gain.

With two 1/4 inch (6.35mm) balanced outputs, the U44 gives you plenty of scope to manage your analog I/O needs.

The UNI OTG USB-C connector port allows the user to directly connect to internet streaming services - very useful if you are a producer, engineer or artist who broadcasts to the internet, (OTG cable and Apple camera kit required).

UNI OTG is iCON's own advanced and especially coded, proprietary method of accessing OTG connectivity.

A super fast and reliable chip, the ARM-M7/500MHz is used internally, facilitating extremely stable signal processing. Two instances of the chip are used, one for the UNI OTG connection, (which provides a super stable connection and high audio quality) and one for the USB-C connection to your computer.

The generously sized, high quality full color 7 inch TFT display sits atop the device and features colorful, easy to read and responsive 17 segment metering indicators as well as instrument/mic/line and +48K phantom power indicators. Digital potentiometers allow users to control parameters such as gain via iCON's iO Pro software, resulting in corresponding changes to the bright, easy to read U44 display.

Manipulate the faders, buttons and dials in iO Pro to effect a change on the U44's display and within the device itself.

The LCD display screen also features dB input/output level readouts for all channels, set within semi-circular indicators. If MUTE is selected within the iO Pro software, this will be shown on the display in place of dB values in the relevant channel position.

A direct monitoring indicator sits in between channels 1 and 2 and a LINK facility exists for channels 3 and 4, (its indicator is situated between these channels) whereby the user may use both line in channels together, (i.e. applying input gain for both channels in equal measure).

Mic In 1+2, Line In 3+4, UNI OTG, Headphones 1+2 and Master Out sections are conveniently color-coded for easy visual reference.

You will need to connect to your computer to enable the iO Pro software. The U44 is controlled via this software. This is ideal for engineers and studio owners who wish to make all necessary changes via their computer, rather than interact physically with faders, knobs and buttons. This may prove beneficial for those with specific mobility issues.

After iO Pro is downloaded and installed (remember to ensure your device is connected to the computer whilst installing and to install the ASIO drivers if you are a Windows user - you will need these for the device to work), you will be able to make alterations to the parameters of your choice, including input gain for inputs 1-4, OTG output gain and both headphone output levels. You can also activate +48V phantom power, choose input types (channels 1-2), link line inputs 3+4 and alter the headphone 1+2 and master out levels.

Features Pt. 2

- 24-Bit 192KHz 4 in 4 out analog audio interface
- Software controlled
- High-resolution analog mic preamps with 62dB of gain
- Excellent sound quality
- Digital to Analog conversion: 127 dB
- Analog to Digital conversion: 122 dB
- High quality full color 7 inch TFT display
- Ability to make adjustments via iCON iO Pro software
- Two high quality Combo XLR (balanced) with 1/4 inch (6.35mm) jacks for mic, line or instruments (unbalanced)
- Two analog outputs on 1/4 inch (6.35mm) jacks (balanced)
- High visibility digital metering and dB data readout
- +48v phantom power (on/off controlled via iO Pro)
- Mic/Inst/Line input options (buttons on iO Pro)
- Mute option for input channels (controlled via iO Pro)
- Ability to link input channels (controlled via iO Pro)
- Two 1/4 inch (6.35mm) headphone outputs with individual digital volume controls (controlled via iO Pro)
- Direct monitoring available (switchable via iO Pro)
- UNI OTG connection with high dynamic range and extremely stable performance
- USB-C connector for PC/Mac connectivity
- Ability to use plugin compressors, reverbs etc. in a live context whilst streaming via iCON iO Pro
- Ability to switch between different monitoring set ups
- Loop Back function possible with iCON iO Pro for both Mac and Windows platforms
- Class-compliant with MacOS 10.15 or above & Windows 10 or above
- +12 V DC power supply connector supplied
- ARM-M7/500MHz processing power
- High grade ARM Codec A7 processor to enable high quality touchscreen functionality
- USB 2.0 true high speed
- Supports Direct Sound, WDM and ASIO 2.0
- Rugged, high quality construction
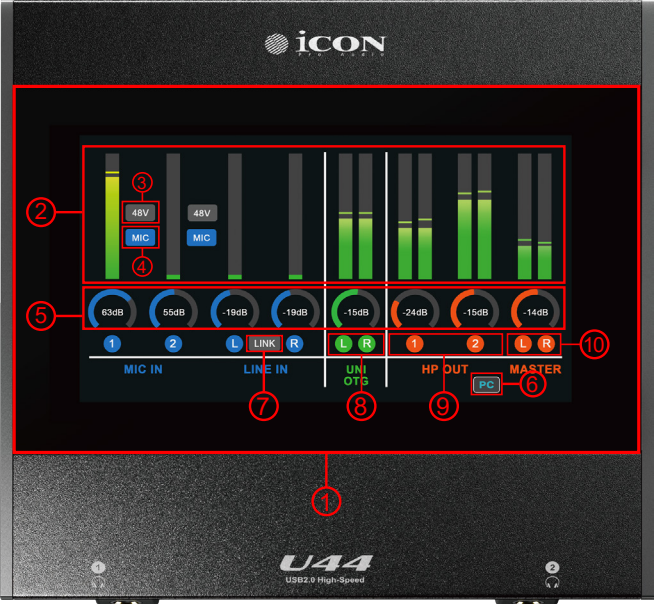
Top Panel (Display Screen)

All adjustments to parameters are carried out via iCON's iO Pro software. Please ensure this has been successfully downloaded and installed, (Windows users should also ensure the ASIO driver has been installed - this is achieved via the iO Pro installer).

1. TFT Display screen
High quality, full color wide angled view LCD display screen (can be seen from multiple directions).

2. Meters
17 segment, bright and clear meters for inputs 1-4, UNI OTG output, headphones 1 and 2 and master out.

3. +48V phantom power button
Press to supply +48V phantom power to the associated XLR input. This phantom power circuit is suitable for most condenser microphones. The button is accessed via the iO Pro software.

4. Input select button (channels 1+2)
Use this button to choose between the following in iO Pro;
Mic - XLR connection
Line - using 1/4 inch (6.35mm) connection
Inst - using 1/4 inch (6.35mm) connection

5. Input/Output gain virtual knobs
Input and output gain levels of Mic In channels 1-2, line in channels 3-4, UNI OTG output gain, headphone out gain and the master out gain level, which can be altered by adjusting the virtual knob in a clockwise or anti-clockwise direction via the iO Pro software.

6. PC/Dir Display
This button shows whether the device is in direct monitor mode (DIR) or the signal is travelling through the computer with associated processing engaged as normal (PC). Users should navigate to the monitoring window in iO Pro to select Direct Monitoring as required. This is available for channels 1 and 2 (mic in).

7. Link button
Pressing this will result in the two associated faders linking and operating in tandem. The two channels will 'snap' together and the same amount of gain will be applied to both (depending on how much the user applies).

8. UNI OTG control
This virtual knob controls the amount of gain supplied to the UNI OTG channel.

9. Headphone volume controls

Connect one or two pairs of stereo headphones to the two 1/4 inch (6.35mm)jack sockets and adjust the volume with these knobs.

10. Master knob

This virtual knob controls the volume of the main output.

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.

Rear Panel
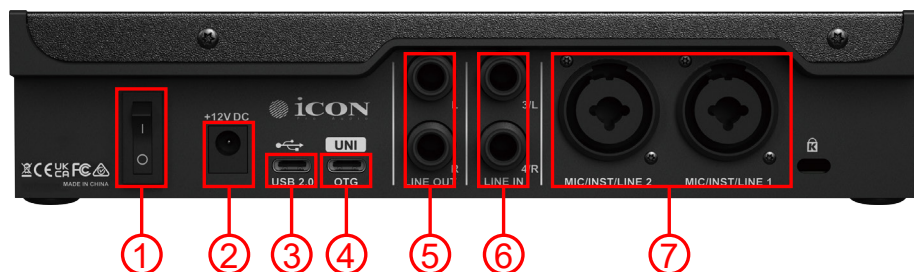
1. Power switch

2. Power supply connector
A +12V DC power supply adapter is required to power the U44 (supplied).
*(**Note:** You can purchase replacement power adapters from ICON distributors/ dealers near you or via special order from support.iconproaudio.com)*

3. USB connector (Type-C)
Connect this port with the provided USB cable (Type-C) to your Mac or PC.

4. UNI OTG
This USB-C UNI OTG port allows you to connect your smart device
(OTG cable/adapter and Apple camera kit required). The connection has a very high dynamic range and is extremely stable, (please see 'UNI-OTG Connection' on page 20).

5. Line Out Outputs
These are balanced analog outputs on 1/4 inch (6.35mm) TRS connectors. These outputs are normally connected to monitors. For best results use TRS cables (balanced).

6. Line In Inputs 3+4
These are balanced analog inputs on standard 1/4 inch (6.35mm) TRS connectors.

7. 2 x Neutrik Combo XLR with ¼ inch TRS jacks for mic, line or instruments

These are unbalanced instrument/line inputs and balanced mic level inputs, connected to the U44 pre-amp. These hybrid connectors will accept a standard 3-pin XLR plug or a 1/4 inch (6.35mm) TRS or TS 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. 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 LINE is selected when connecting external equipment like a drum machne or preamp.

Front Panel

1. Headphone output
These output jacks accept a standard 1/4 inch (6.35mm) stereo TRS headphone connector.

Hardware Connections

Connect the U44 outputs to your amplifier, powered monitors or surround system.

If you are monitoring through headphones, connect your headphones to the device's headphone outputs. Ensure the volume is down or at zero before wearing your headphones.

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 do not require phantom power. 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.

Connect your MIDI device to the MIDI I/O
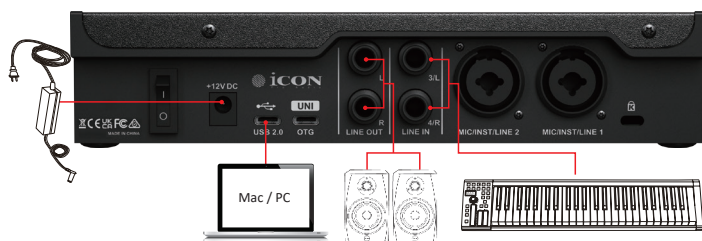
Connect OTG devices via Mobile Out (Digital)
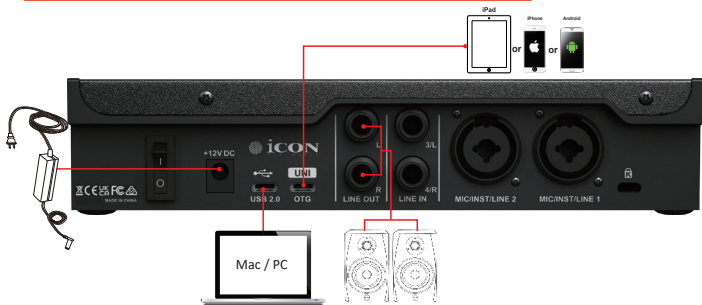
Connect to a Microphone or instrument

TRS, TS and XLR Connections

Line outputs are balanced on the U44 device. TRS (balanced) cables should be used for these connections. 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.
TRS cables can carry balanced mono signals. These are essential for professional audio setups, where noise reduction and interference rejection matter. TRS cables also handle stereo signals such as headphones or connections to audio interfaces from additional outboard equipment.
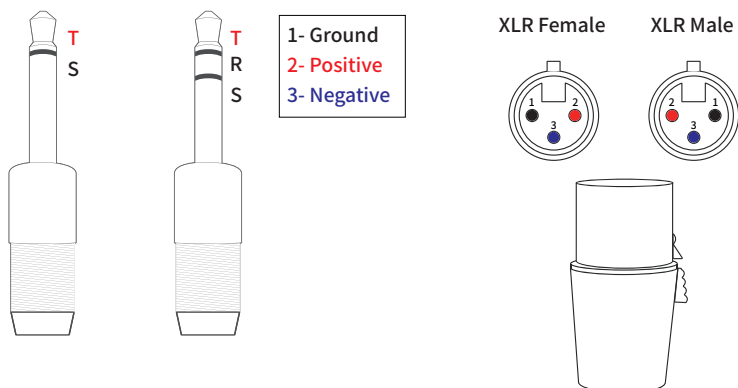

It is usual practice to connect external speakers/monitors using ¼ inch (6.35mm) TRS cables to LINE OUT ports as these connections offer the least amount of interference when compared to ¼ inch (6.35mm) TS cables. If you have ever connected active/non-active monitors to an audio interface with TS (unbalanced) cables, you may have noticed obvious audible interference, if only occasionally. Replacing TS cables with TRS cables may eradicate or vastly reduce this interference.

As mentioned above TRS cables are also capable of stereo connections as opposed to TS cables, which are only capable of mono connections, so they are an ideal choice when connecting an outboard preamp, a channel strip, a CD player, a drum machine or similar item to your interface.

For this, you would select one of the two ¼ inch (6.35mm) LINE inputs. This is normally the preferred and simplest choice.

Alternatively, you may use the ¼ inch (6.35mm) LINE inputs section of the XLR/¼ inch (6.35mm) combo input. Switch to a LINE input via iO Pro. By selecting LINE, you are providing a suitable input level for your device when using the ¼ inch (6.35mm) connector.

Connect the external device/s (whilst powered off) using TRS to TRS connections (¼ inch (6.35mm) connectors) or, if preferred and available, an XLR to TRS ¼ 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 using the XLR/¼ inch (6.35mm) combo input.

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 using a XLR/¼ inch (6.35mm) combo input on your U44 to connect, (this is a moot point if using a dedicated LINE input as these do not carry phantom power).

When using a LINE connection on the combo inputs, if you have ensured the outboard equipment is connected using a TRS cable, to either the ¼ inch (6.35mm) portion of the Neutrik combo inputs (or a ¼ inch (6.35mm) LINE inputs for that matter) 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 general rule, when connecting equipment;

Use LINE IN only ¼ inch (6.35mm) inputs (no +48V phantom power). This is generally the accepted practice for devices that have these dedicated inputs. Use a TRS cable for vastly reduced or eradicated interference.

Select LINE. Use the ¼ inch (6.35mm) portion of the Neutrik XLR/ ¼ inch (6.35mm) combo inputs using a TRS balanced cable only (bypasses +48V phantom power supply).

NEVER use XLR-XLR connections.

If connecting an external device such as a channel strip to the audio interface using the XLR/¼ inch (6.35mm) combo input, 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.

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/¼ 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.

In short, the usual practise 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 ¼ 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 ¼ 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 TRS 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 is usual practise for dedicated LINE inputs to be used when connecting to outboard equipment where possible - this bypasses any possible danger that +48V phantom power may be inadvertently accessed.

It may help to think of the XLR/¼ inch (6.35mm) combo inputs as balanced unless INST is selected, in which case they become unbalanced.

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

Different types of microphone connection method diagram

Or

XLR Balanced

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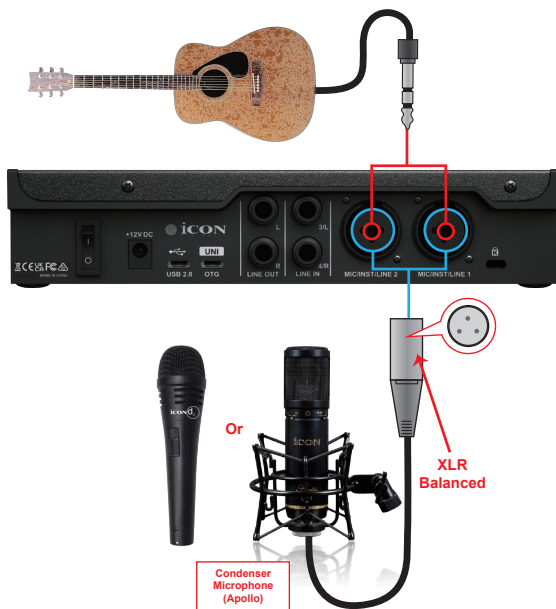
Note: *For dynamic microphone users, please make sure +48V phantom power switch is "OFF" before you plug in your microphone, otherwise it may cause damage to your microphone.*

UNI OTG Connection

"OTG" connectivity is available via the U44.

"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.

The U44's 'UNI OTG' capability allows the user to broadcast on social media, taking advantage of 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. Obtain an OTG cable - you will need an Apple Camera kit to connect.

3. Turn on the U44. Connect the U44 via the USB-C port.

4. Plug the other end of the OTG cable into your mobile or tablet's charging or data port. Your device should recognize the U44 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 U44 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 U44 will be reflected in your broadcast.

8. When you have completed your broadcast, safely eject the U44. 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.

Please note that the Apple Camera kit device is required when using the OTG connection.

Installing your U44

To ensure functionality of your U44 for either Mac or Windows, iCON's iO Pro software should be downloaded and installed, as this is where you control the parameters of the device.

Please remember to ensure you've connected your device to your computer (PC or Mac) and turned it on. Please confirm you have a stable connection to the internet before installation of iO Pro commences.

During the installation, iO Pro will install various drivers - the loopback drivers for Mac systems, for example. 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 it is on and connected to the internet**
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).

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.

iCON iO Pro is the beneficiary of years of research and development by iCON programmers and is a mature, stable and intelligent software, enabling the user to implement live use of plugins without the aid of a DAW, as well as facilitating flexible channel routing, direct monitoring, plugin sidechaining and much more. It will be a great benefit to both Windows and Mac users.

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 U44 is required for operational use of the device. Actions you perform in the software will be shown in the display and actioned on the device itself.

You can set up the U44 for your proposed function i.e. karaoke/live performance and not revisit the software again until you wish to make a change - i.e. 'set it and forget it', if you wish.

Conversely, there will be users who wish to make frequent alterations when using the U44 to record a band, create podcasts etc. Additionally, the U44 may suit those with physical restrictions who are unable, or find it disagreeable to adjust physical controls and may be more comfortable using a mouse/computer keyboard in the fulfilment of tasks.

Every compatible iCON device has its own unique version of iCON iO Pro. Below, we can see the Windows version of the iO Pro software for the U44. Here we can observe the Windows layout for iO Pro;
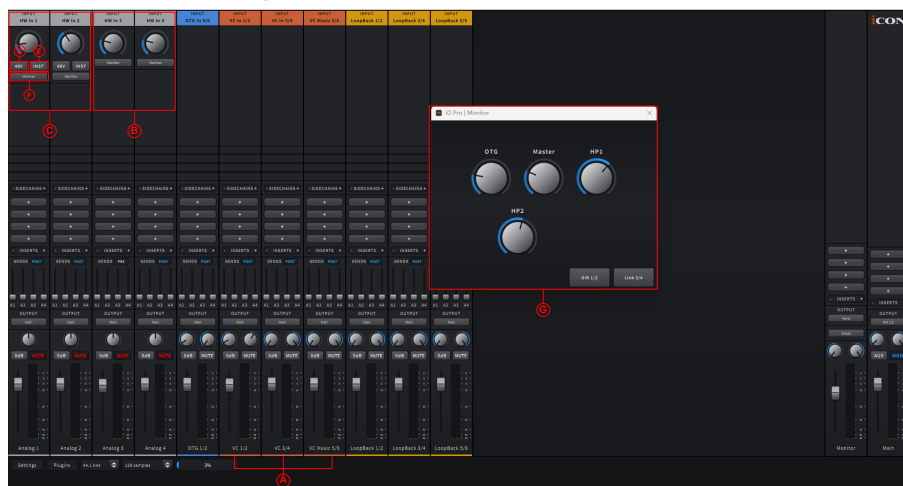
As we can see, there are 'virtual channels' present (A), (these are not present in the Mac version as these are not required - see the iO Pro manual for further details). We can identify, in the top left corner, the input control knobs which can be adjusted. Inputs 3 and 4 (B), because they are line inputs, have less options than the two Mic/Line/Inst inputs (1 and 2) on the far top left (C). Selecting the buttons i.e. '+48v' (D) will engage phantom power. INST (E) will toggle between Line in, Instrument and Mic inputs.

The 'Monitor' button (F) will launch the 'Monitor window' (G), within which several monitoring options can be selected and adjusted i.e. headphone levels.

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

Specifications

U44 Technical Specifications	
I/O	
Microphone Inputs (XLR - balanced)	Two
High Impedance (Hi-Z) Instrument Inputs	Two
Analog Line Inputs	Four
Analog Monitor Outputs (DC coupled)	Three (two stereo headphones and one stereo master)
Digital Output Port	One (USB OTG)
Audio to Digital Conversion	
Dynamic Range	122dB, A-weighted
Signal-to-Noise Ratio	-122dB, A-weighted
Total Harmonic Distortion + Noise	-116dB, -1dBFS
Digital to Audio Conversion	
Dynamic Range	127dB, A-weighted
Signal-to-Noise Ratio	-127dB, A-weighted
Total Harmonic Distortion + Noise	-120dB, -1dBFS
ANALOG I/O	
Mic Inputs (XLR balanced)	
Frequency Response	20Hz to 20kHz (+/-0.3dB)
Minimum voltage gain	0dB (fader @ unity, -8dB pad)
Maximum voltage gain	62dB (fader @ unity, no pad)
Nominal input level	-16dBu through -66dBu (fader @ unity, no pad, @ +4dBu output)
Maximum input level	+16dBu (fader @ unity, -20dB pad)
Expected source impedance	150 to 2000 Ohms
Actual load impedance	1200 Ohms
Instrument Inputs 1/2	
Frequency Response	20Hz to 20kHz (+/-0.3dB)
Input Impedance	390K Ohms, typical
Maximum input level	+16.5dBu (fader @ unity, -20dB pad)
Line Inputs 1/4	
Frequency Response	20Hz to 20kHz (+/-0.3dB)
Maximum level	+24dBu
Nominal input level	+4dBu
Expected source impedance	20000 Ohms or less
Actual load impedance	10 kOhms
Line Outputs 1/2 (6.35mm TRS, Unbalanced)	
Frequency Response	20Hz to 20kHz (+/-0.3dB)
Maximum level	+24dBu
Nominal input level	+4dBu
Minimum load impedance	600 Ohms

Headphone Outputs: (Stereo, Unbalanced)	
Frequency Response	20Hz to 20kHz (+/-2.5dB)
Load Impedance	16 to 600 Ohms
Maximum Output Levell	+18dBu, no load +18dBu, 600Ohms (7.94Vrms) +16dBu, 100 Ohms (6.3Vrms) +14.6dBu, 32 Ohms (5.4Vrms) +8.6dBu, 16 Ohms (2.7Vrms)
Dimensions and Weights	
Dimensions (WxDxH)	213mm x 198mm x 46mm 8.39" x 7.8" x 1.81"
Weight	0.87Kg

Services

If your U44 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

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