







REALTIME PORTAL

Powered by RealTime Audio®

**Connect and play with your bandmates, choir,
writing partners, music students or recording
studio via the internet...in REAL TIME!**



<div style="text-align: center;">  <div style="background-color: black; color: white; padding: 2px 10px; font-weight: bold; margin: 5px 0;">CAUTION</div>  </div> <p style="text-align: center; font-size: small;"> RISK OF ELECTRIC SHOCK DO NOT OPEN RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR </p> <p style="text-align: center; font-size: x-small;"> CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED PERSONNEL </p> <p style="text-align: center; font-size: x-small;"> ATTENTION: POUR EVITER LES RISQUES DE CHOC ELECTRIQUE: NE PAS ENLEVER LE COUVERCLE. AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER L'ENTRETIEN AU PERSONNEL QUALIFIE. AVIS: POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU A L'HUMIDITE </p>	<div style="display: flex; flex-direction: column; align-items: center;">   </div> <p style="font-size: x-small;"> The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure, that may be of sufficient magnitude to electric shock to persons. Le symbol clair avec point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour avertir l'utilisateur de la présence à l'intérieur du coffret de voltage dangereux non isolé d'ampleur suffisante. </p> <p style="font-size: x-small;"> exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour avertir les utilisateurs de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil. </p>
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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. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this unit and all connected electrical equipment during lightning storms or when left unused a long period of time.
12. Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way or fails to operate normally.
13. Protect the power cord from being walked on or otherwise damaged by items placed on or against them.
14. Do not interfere with the mains electrical supply to the unit.

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

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Introduction

It's time to get the band back together! Practise and rehearse with anyone in RealTime via webcam and the 'RealTime Portal' from iCON Pro Audio. Our ultra-low latency technology means you can jam in RealTime within a 1,000-mile radius* & with no discernible lag.

Just plug in your microphone or instrument and headphones into an audio interface. Then, simply connect that to your RealTime Portal. Hook that up to your internet via an ethernet cable and you're ready to go!

Once you've set up the hardware, you'll use the RealTime Audio app to create or join a jam room. Connect and play with your bandmates, your choir, writing partners, music students, a recording studio... there's really no limit to the beautiful music you can make together with RealTime Audio!

**Recommended max of 30 millisecond ping time between users*

What's in the package?

- Real Time Portal hardware device
- Cat-6 ethernet cable
- 9V 3A USB-C Adapter (for 120v outlet)



Register your ICON ProAudio product to your personal account

1. Check serial number of your device

Please go to [http:// iconproaudio.com/registration](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" or if you see any other message, please contact our after-sales service team

2. Log in to your personal account page for existing users or sign up as new user

Existing users: Please log into your personal user page by inputting your user name and password.

New users: 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 manual in different languages and bundled software etc. for download.

Features



- Play or practise with multiple bandmates with virtually no latency
- Connect and play with other musicians within a 1000 Mile (1609.35 Km) radius*
- Seamless communication and social interaction with bandmates via RealTime Audio app
- Ethernet adapter for internet access
- USB 3.0 Connection (for audio interface)
- Easy setup
- Portable, rugged chassis design

*Recommended max of 30 millisecond ping time between users

Requirements for using Real Time Portal

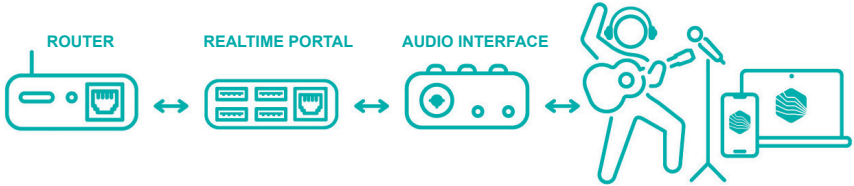
- A wired internet connection (ethernet)
- A USB class-compliant audio interface (not included)
- Real Time Audio App (and subscription) for each user connected to a session
- For optimal performance, connections should be made within a 1000 mile radius.



Set Up



RealTime Audio

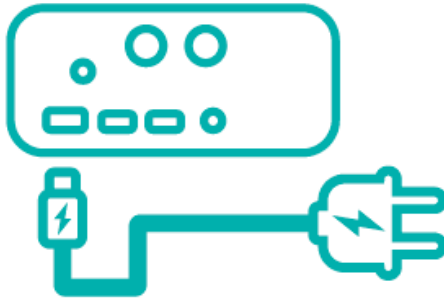


Connecting Your RealTime Portal



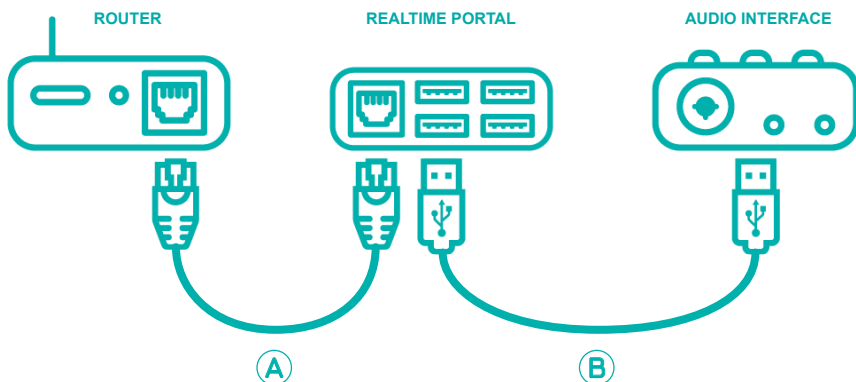
Scan for a setup video

Step 1. Connect Power Supply to RealTime Portal



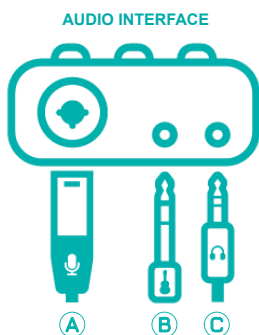
Plug the USB-C power supply into your RealTime Portal and then into the wall.

Step 2. Connect Router & Audio Interface to RealTime Portal



- A** Using the ethernet cable provided, connect your RealTime Portal to your internet router.
- B** Using a USB cable, connect your RealTime Portal to any, class compliant, USB audio interface (not provided).

Step 3. Connect Microphone, Instrument & Headphones



A Plug in your microphone.

The microphone will be used for talkback, singing, and for use with acoustic instruments.

B Plug in your instrument.

C Plug in your headphones.



Only use headphones with two insulating bands on the connector plug (1/8" [3.5 mm] TRS).



D Turn up the volume!



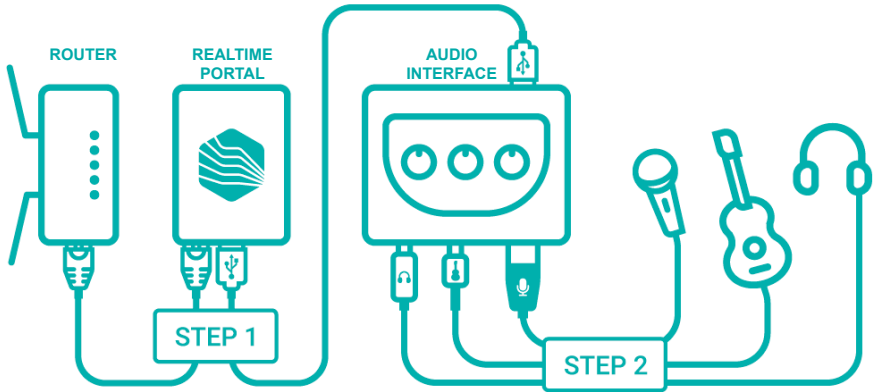
Make sure your audio interface has **Direct Monitor** disabled.




If you have an **"Input/Playback"** knob make sure it's turned all the way to **"Playback"**.



The Complete Setup

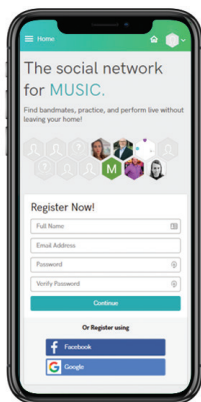


 When you hear “Your RealTime Portal is ready to connect” you are ready to open the RealTime Audio app.

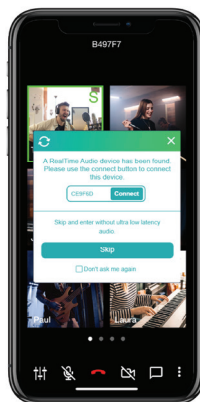
Step 4. Go to:
[www.social.realtimeaudio.com/
?video=tutorial](http://www.social.realtimeaudio.com/?video=tutorial)



Step 5. Register & Pair with your RealTime Portal




A Register your account

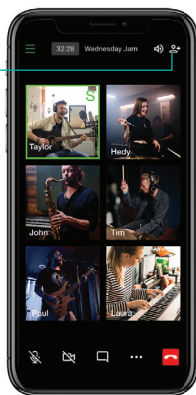


B Wirelessly pair the app with your RealTime Portal


⚠ If prompted, grant access to your microphone and camera.

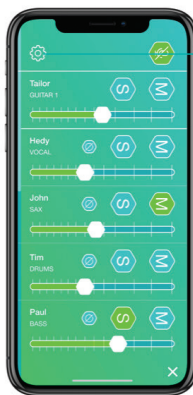
You Are Now Connected! Let's get some friends here!

Click the  icon to invite others with a Realtime Audio powered device to join the jam.



Webcam View

Click the  icon on your personal mixer to explore and change your settings.



Mixer

Have fun jamming!

For more information, contact:
support@realtimeaudio.com
www.realtimeaudio.com



RealTime Audio

Specifications

Hardware

Processor	Rockchip RK3399 - 64bit hexa core
Memory	2GB SD Card
Ethernet Port	Ethernet, GbE LAN
Power Port	USB C
Audio Interface Port	2 x USB 3
Ethernet Cable	5ft Cat 6
USB Cable	USB

Requirements

Ethernet cable	Included
USB Cable (for audio interface)	Included
Power Adapter	Included
USB Audio Interface - Class Compliant	Not Included
Access to Router or Live Ethernet Port	Required
Recommended User Internet Speed	Min of 10mbps Upload

Connection

Self Host ¹	<input checked="" type="checkbox"/>
Client-Server ²	<input checked="" type="checkbox"/>
Ethernet connection required	<input checked="" type="checkbox"/>

Max Group Size

12 (self host), 150 (client-server)

Range / Distance

1,000 miles (varies with user ping times)

Hardware Options

Requires USB Audio Interface	<input checked="" type="checkbox"/>
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Accessibility

IOS App	<input checked="" type="checkbox"/>
Ipad App	<input checked="" type="checkbox"/>
Android App	<input checked="" type="checkbox"/>
Browser App	<input checked="" type="checkbox"/>

Easy of Use / Setup

Software / App	Very Easy
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Hardware	Easy
Robust Customer Support	<input checked="" type="checkbox"/>

Enterprise Features

Customization available	<input checked="" type="checkbox"/>
White label / rebranding available	<input checked="" type="checkbox"/>

Audio Features Mixer Controls

Personal Mix Track Faders	<input checked="" type="checkbox"/>
Reverb	<input checked="" type="checkbox"/>
Pan	<input checked="" type="checkbox"/>
3D Audio	<input checked="" type="checkbox"/>
Mute	<input checked="" type="checkbox"/>
Solo	<input checked="" type="checkbox"/>
Master Mute	<input checked="" type="checkbox"/>
Mute Input	<input checked="" type="checkbox"/>

Advanced Audio Settings

Auto Jitter Buffer ³	<input checked="" type="checkbox"/>
Manual Buffer Slider (Server)	<input checked="" type="checkbox"/>
Manual Buffer Slider (Client)	<input checked="" type="checkbox"/>
Buffer Frame Toggle (Turbo)	<input checked="" type="checkbox"/>
Stereo / Mono/ Stereo in- Mono out	<input checked="" type="checkbox"/>

Metrics Dashboard

Overall Delay	<input checked="" type="checkbox"/>
Ping Time	<input checked="" type="checkbox"/>
Processing Delay	<input checked="" type="checkbox"/>
Dropout Counter	<input checked="" type="checkbox"/>

Host Controls

Toggle Host Role ⁴	<input checked="" type="checkbox"/>
View Every Users Upload Speed	<input checked="" type="checkbox"/>
View Every Users Ping Rate	<input checked="" type="checkbox"/>
Auto Optimize Server Location	<input checked="" type="checkbox"/>
Manual Optimize Server Location	<input checked="" type="checkbox"/>

Sharing and Performing Tools

MP4 Recording	<input checked="" type="checkbox"/>
Multitrack Audio Recording	<input checked="" type="checkbox"/>

Streaming	<input checked="" type="checkbox"/>
Director Mode ⁵	<input checked="" type="checkbox"/>

Quality

Audio Compression	<input checked="" type="checkbox"/>
Audio Quality	48kHz

Music Tools

Metronome	<input checked="" type="checkbox"/>
GPS Metronome ⁶	<input checked="" type="checkbox"/>
Instrument Tuner	<input checked="" type="checkbox"/>
Drum Machine	<input checked="" type="checkbox"/>
Scale Generator	<input checked="" type="checkbox"/>
Chord Generator	<input checked="" type="checkbox"/>
Interactive Keyboard	<input checked="" type="checkbox"/>
Whiteboard	<input checked="" type="checkbox"/>
Sheet Music Library	<input checked="" type="checkbox"/>
Audio File Library	<input checked="" type="checkbox"/>

Video Features

Has Video Component	<input checked="" type="checkbox"/>
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Moderator Permissions

Unlimited Breakout Rooms	<input checked="" type="checkbox"/>
Everyone starts muted	<input checked="" type="checkbox"/>
Everyone starts hidden	<input checked="" type="checkbox"/>
Everyone follows me	<input checked="" type="checkbox"/>
Remove user	<input checked="" type="checkbox"/>
Mute user	<input checked="" type="checkbox"/>

Music Making Mode

Dominant speaker Toggle	<input checked="" type="checkbox"/>
Noise Suppression Toggle	<input checked="" type="checkbox"/>
Low Pass Filter Toggle	<input checked="" type="checkbox"/>
Echo cancellation Toggle	<input checked="" type="checkbox"/>
Stereo Mode Toggle	<input checked="" type="checkbox"/>
Peer to Peer Mode Toggle	<input checked="" type="checkbox"/>
Lipsync Toggle	<input checked="" type="checkbox"/>

Profile Settings

Display name	<input checked="" type="checkbox"/>
Gravatar email	<input checked="" type="checkbox"/>
Instrument	<input checked="" type="checkbox"/>

Live Speech Translation

Text to Text	<input checked="" type="checkbox"/>
Text to Speech	<input checked="" type="checkbox"/>
Speech to Text	<input checked="" type="checkbox"/>
Select Voice Gender	<input checked="" type="checkbox"/>
Select Voice Accent	<input checked="" type="checkbox"/>
Over 50+ Languages	<input checked="" type="checkbox"/>

Toggle Media Inputs

Easy toggle video	<input checked="" type="checkbox"/>
Easy toggle audio	<input checked="" type="checkbox"/>
Use multiple audio inputs	<input checked="" type="checkbox"/>
Use multiple video inputs	<input checked="" type="checkbox"/>

Screenshare

Entire Screen	<input checked="" type="checkbox"/>
Application Window	<input checked="" type="checkbox"/>
Chrome Tab	<input checked="" type="checkbox"/>
Multiple Monitors	<input checked="" type="checkbox"/>
Share Audio with Screenshare	<input checked="" type="checkbox"/>
Share Audio Only	<input checked="" type="checkbox"/>
Share Youtube Video	<input checked="" type="checkbox"/>
Picture in Picture Mode	<input checked="" type="checkbox"/>
Toggle Screenshare Resolution	<input checked="" type="checkbox"/>
Presenter mode	<input checked="" type="checkbox"/>

Security

Encryption type	<input checked="" type="checkbox"/>
Server Access	<input checked="" type="checkbox"/>
Peer to Peer Mode	<input checked="" type="checkbox"/>
Client Server Mode	<input checked="" type="checkbox"/>
Password protection	<input checked="" type="checkbox"/>
Waiting room	<input checked="" type="checkbox"/>

Chat

Text chat to group	<input checked="" type="checkbox"/>
Text chat to individual	<input checked="" type="checkbox"/>

Copy/ paste image into chat	<input checked="" type="checkbox"/>
File sharing	<input checked="" type="checkbox"/>
Emoji Chat	<input checked="" type="checkbox"/>
Raise hand	<input checked="" type="checkbox"/>

Room Creation Settings

Custom room name	<input checked="" type="checkbox"/>
Own unlimited rooms	<input checked="" type="checkbox"/>
One click room creation	<input checked="" type="checkbox"/>
Set paywall	<input checked="" type="checkbox"/>
Publish or unpublish room	<input checked="" type="checkbox"/>
Categorize/ Tag published rooms	<input checked="" type="checkbox"/>
Password protect room	<input type="checkbox"/>

Invite

Share link	<input checked="" type="checkbox"/>
Invite by email	<input checked="" type="checkbox"/>
Invite by SMS	<input checked="" type="checkbox"/>
Embed Iframe	<input checked="" type="checkbox"/>

Other

Google Calendar Integration	<input checked="" type="checkbox"/>
Backgrounds	<input checked="" type="checkbox"/>

Networking Features

Explore! ⁷	<input checked="" type="checkbox"/>
Full Featured Social Network ⁸	<input checked="" type="checkbox"/>

¹This is a innovative solution that is unique to RealTime Audio in which attempts to maximize the benefits of both the client-server relationship along with the peer-to-peer model while mitigating each's downsides. This "self host" model takes the architecture of the client-server model and allows it put the server on the same box that runs the client app. In other words, in a group of RTA box users, one of the boxes (the first to pair) also does the work of the mixing server. In this way, the max users per room is increased from 4 to 12. Also, this model benefits from not running into the accessibility issues that the peer-to-peer model has with port forwarding. Also, because it does not rely on a third party cloud server (like the client-server model), users can be anywhere (not just in the ten US cities that have large datacenters). Also, because the host role can be moved from one user to the another user at will (or automatically), the group distance radius can get from 500 miles to 1,500 miles since the host role can be placed with the user that is centrally located

geographically. Also, since the host role created automatically, this system does not require the users to create their own server through Amazon or Google Cloud which can be a costly and extremely complicated process.

²Client-server systems use an intermediary server that receives, mixes, and sends all users audio from a central location. The benefit of these systems are larger room sizes (often up to 150 users). Also, they do not have the same accessibility issues that peer-to-peer networks have for one out of seven users (requiring complicated port forwarding of the user's router). The downside is that these central servers add travel time to the overall latency as each signal needs to make a stop first before heading to its final destination. Another downside is that these servers are extremely complicated to setup. They generally require an IT expert to make that happen. These central servers also cost money to rent. Another downside is that these servers are run from specific data centers that only exist in around 10 cities in the US. This means that users need to be no more than 500 miles away from these ten cities in order for this system to work for them. All other users in the US (outside of these ten cities) will not be able to use these solutions.

³This feature detects network jitter in realtime and automatically adjusts the buffer to the minimum size needed. Uniquely minimizes latency

⁴RTA's system displays each user's performance metrics and recommends which user should be the host. It also provides a button

⁵Director mode allows users to zoom in on a particular player or show the whole group while recording or streaming effectively playing the camera "director" role of a music video or live performance.

⁶The GPS metronome allows users to sync up the clocks on their phones via satellite GPS to play a metronome that everyone can follow along with. Drastically expands the max distance RTA users can successfully put between them while still jamming in time.

⁷Allows users to publish their room and categorize by topics and to explore other rooms where the room owner has done the same

⁸RTA's "Facebook for Music", this feature set helps musicians find others to jam with. Users will create persona and band pages, post band and job openings, post classifieds, sell merchandise, post pictures/videos/live streams, host virtual tip jars, etc.

Services

If your Real Time Portal needs servicing, please 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 ProAudio 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. Keep this owner's manual. We don't need it to repair the unit.
3. 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.
4. 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 US

Send the product to:

North America

Mixware, LLC – U.S. Distributor

3086 W. POST RD.

LAS VEGAS NV 89118

Tel.: (818) 578 4030

Contact: www.mixware.net/help

If you are located in Europe

Send the product to:

Sound Service GmbH

European Headquarter Moriz-

Seeler-Straße3 D-12489 Berlin

Telephone: +49 (0)30 707 130-0

Fax: +49 (0)30 707 130-189

E-Mail: info@sound-service.eu

If you are located in Hong Kong

Send 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

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



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抖音号



抖音iCON艾肯

哔哩哔哩



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中国地区用户

微信公众号



微信号iCON-PRO

官方售后QQ



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Facebook



www.facebook.com/iconproaudio

Youtube



www.youtube.com/iconproaudio

Website



www.iconproaudio.com

Support



support.iconproaudio.com

Dashboard



iconproaudio.com/dashboard/

www.iconproaudio.com