

e.One<sup>by</sup> bel canto



# STREAM 2

## User's Guide

# Stream 2

Asynchronous Network Bridge

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## Important Safety Instructions

Explanation of symbols used in this manual or on the rear/underside of the apparatus:



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 enclosure that may be of sufficient magnitude to constitute a risk of shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

TO COMPLETELY DISCONNECT THIS APPARATUS FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE.

THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY ACCESSIBLE.

Disconnect supply cord before changing fuse.  
Refer servicing to qualified service personnel.

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

- Read, keep and follow these instructions.
- Heed all warnings.
- Do not use the apparatus near water, e.g. near a bathtub, kitchen sink, laundry tub, in a wet basement, near a swimming pool etc.
- Clean only with a dry cloth.
- Install in accordance with the Manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Do not defeat 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. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet; consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and at the point where they exit from the apparatus.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug has been damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Mains plug: Use the mains plug to disconnect the apparatus from the mains supply. The mains plug must be accessible at all times. Use the mains switch (if applicable) when the apparatus is not in use.
- Do not expose the apparatus to liquids or moisture, dripping or splashing. Do not place a vessel containing liquid on top of the apparatus.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- The apparatus has been designed for use in moderate and tropical climates

### In the U.K.

**Fuse replacement:** This appliance is fitted with a non-rewireable 10 amp mains plug. The plug contains a 10 amp fuse. If the fuse has blown it can be replaced as follows: 1) Pull out the black fuse cover/carrier. 2) Remove and dispose of the blown fuse. 3) Fit a new 10 amp BS1362 approved fuse into the carrier and push the carrier back into the plug. Always ensure the fuse cover is fitted. If the fuse cover is missing do not use the plug. Contact your Bel Canto retailer to obtain a replacement fuse cover. Fuses are for fire protection and do not protect against electric shock.



**WARNING: THIS APPLIANCE MUST BE GROUNDED**

### FCC Notice

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Warranty Information

Bel Canto products are automatically covered by a 90 day factory warranty that covers all internal parts and labor. Register online (<http://www.belcantodesign.com/home/support/warranty-registration/eone/>) within 30 days of purchase from an authorized dealer to automatically extend your warranty for 2 years starting from the date of purchase. If you do not have web access, please contact your dealer for assistance. Upon fully completing registration, within 5 business days you will receive an email that officially validates your warranty. Your information will be used for internal use only and will not be sold or released outside Bel Canto. Your comments and suggestions are appreciated and help us continually improve our products and services.

The warranty is only valid to the original owner and is non-transferable. Damage caused by unauthorized modification, abuse, or neglect of product will void your warranty. Any cost associated with return of product is the sole responsibility of the owner. All returns require a return authorization number issued after completing the RMA form in the support section of our website. If you have any questions, please feel free to contact us online at [info@belcantodesign.com](mailto:info@belcantodesign.com).

## Unpacking the e.One Stream 2

Carefully inspect each item for any visual damage. If there is any damage, or anything missing from the list below, please contact your dealer or distributor.

Stream packaging contains the following:

- 1 (one) – Stream 2
- 1 (one) – Stream 2 User's Guide
- 1 (one) – Stream 2 Quick Startup Guide
- 1 (one) – Power cord [6.6' – 2 meters long]

**IMPORTANT:** Save all packing materials as they are specially designed to protect the e.One Stream during transportation. If the packing materials are compromised, contact your dealer, distributor, or Bel Canto for proper packaging before attempting to ship your e.One Stream.

## Power Connection

The power supply in the e.One Stream is preset for the proper power voltage. The power cable should have the correct plug for your local power system. If you believe this to not be true, please contact your dealer immediately. This product, like any electrical component, can be dangerous and cause injury unless correct handling procedures are observed and used. Before powering this product, it is necessary to read and follow proper setup and procedures.



## Setup & Placement

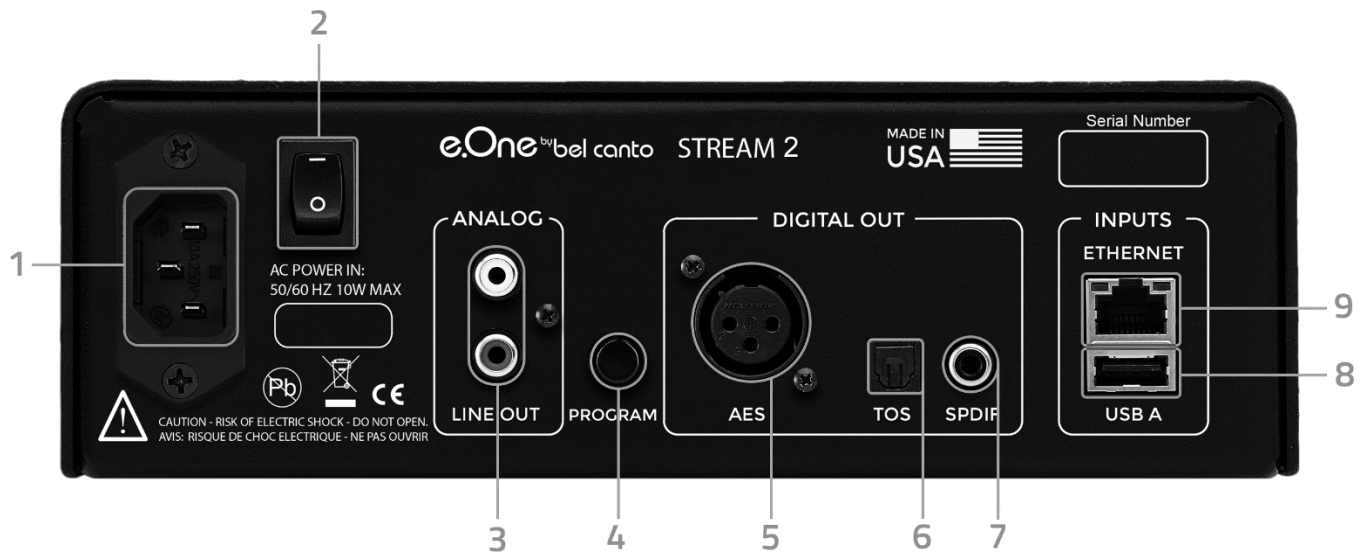
The e.One Stream can be placed in many locations without compromise. We do not recommend placing weights or other objects directly on e.One Stream. This may scratch or mar the chassis finish. Do not use harsh chemicals or abrasives when cleaning the outside of your e.One Stream. Use a clean microfiber cloth to remove fingerprints from the chassis.

Single Ended RCA and Balanced XLR connectors are available. XLR connectors follow the standard AES pin configuration:

- Pin 1 Ground
- Pin 2 Signal +
- Pin 3 Signal -

We recommend placing the e.One Stream in an easily accessible location near your source components.

## Rear Panel Connections



1. **IEC Inlet.** Region specific voltage is internally set.
2. **Mains Power Switch** connects AC input to the power board when set to the I position.
3. **Analog Line Outputs** are low-level outputs designed to feed a Preamp.
4. **Program button** is a multi-purpose menu scrolling function:
  - a) **Firmware updates:** Press and hold the Program button for about 2 seconds. Make sure the Stream is a good connected to the internet. The Stream loads the latest software and resumes a ready state. Power cycle the Stream to ensure the firmware changes take effect. If no firmware update is available, the unit returns to a ready state.
  - b) **Select output:** quick press and release selects between digital and analog output. Only the selected output is active, this is due to MQA full decoding through the Analog output and MQA core decoding\*\* from the digital outs.
5. **AES XLR Output** can send digital signal to your DAC with data rates up to 24 bit 192 KS/s.
6. **TOSLINK Output** can send digital signal to your DAC with data rates up to 24 bit 192 KS/s.
7. **SPDIF RCA Output** can send digital signal to your DAC with data rates up to 24 bit 192 KS/s.
8. **USB A Input** is used to connect to an external FAT32 formatted USB storage device. Use the SEEK app to stream music from the connected drive. The Stream can support Bus Powered USB drives up to 1 amp or any externally powered USB storage device.
9. **Ethernet Input** accepts digital audio data rates up to 24 bit 192 KS/s in AAC, AIFF, MP3, FLAC, WAV, WMA, ALAC, OGG, MMW formats and DSD64 in DSF format. This input supports MQA\* playback of Original Masters up to 384Ks/s, is UPnP/DLNA compatible and a 'Roon Ready' endpoint. Roon is a sophisticated and friendly means to access your music collection and stream TIDAL, including TIDAL MQA Masters (MQA) from the internet. We recommend that you investigate Roon's capabilities at <https://roonlabs.com/>



When all connections to and from the unit have been made then double check everything before plugging the Stream into the power source.

\*MQA (Master Quality Authenticated) is an award-winning British technology that delivers the sound of the original master recording. The master MQA file is fully authenticated and is small enough to stream or download.

\*\*MQA core decoding recovers all the direct music-related information. Output is 88.2kHz or 96kHz

Visit [mqa.co.uk](http://mqa.co.uk) for more information. MQA and the Sound Wave Device are registered trademarks of MQA Limited ©2016

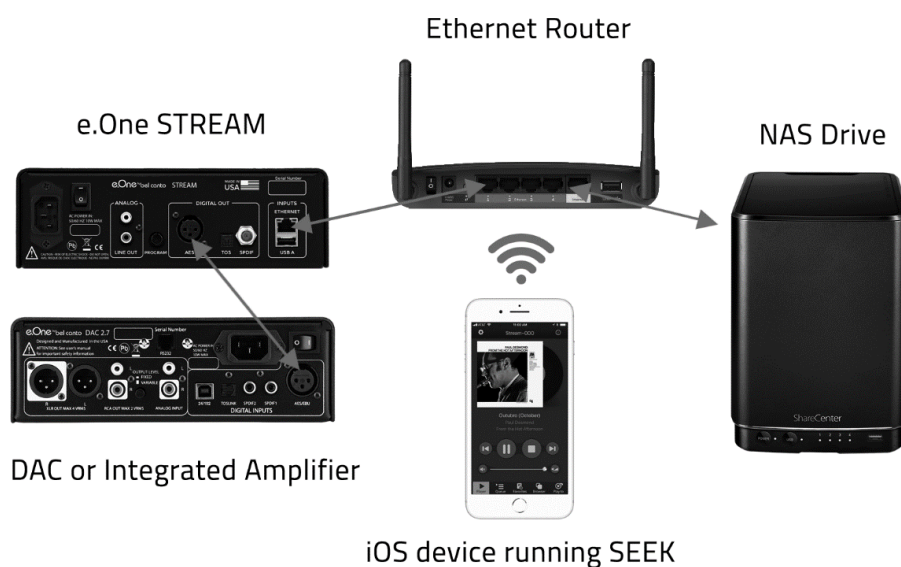
The MQA logo is a trademark of MQA Limited. © MQA Limited 2017

The e.One Stream includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording. The display will show "MQA" when playing an MQA stream or file or "MQA." for an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

## Connecting to Your Network

UPnP Universal plug and play is a set of protocols designed to allow consumer devices to interact over a network. The network streaming system is made up of three standard UPnP components. UPnP control point, Media Renderer and Media server. All media, song, and track information is stored and accessed through your streaming service or server. This can be a NAS (Network attached storage) or computer. The Control point is your tablet or smart phone, this device connects the particular media from the server and passing it to the renderer (e.One Stream) to play. The renderer directly retrieves media from the server decodes and plays the selection as it arrives over the network. It works in the same way streaming music from a subscription service.

Setting up the network properly requires a standard infrastructure that includes the following components; Router, Network Bridge (e.One Stream), Wireless access point (WAP), Wireless control point. The Bel Canto e.One SEEK app is a control point application that will allow users to view / select available renderers view / select available media servers and browse / select / playback music through the e.One Stream network bridge. The Bel Canto SEEK app is currently available for iOS.



The e.One Stream Network Bridge is Roon Ready. If you have a Roon account, you need to install Roon Server on your NAS drive or on a networked PC/Mac. You can then use Roon Remote to control playback. More information on Roon and its hardware requirements can be found at <https://roonlabs.com>.



## Loading Bel Canto SEEK onto Your iOS Device

From your iOS device open apps and search Bel Canto SEEK. Download free app.

SEEK controls content from TIDAL, Qobuz, cloud storage, and VTuner, allowing you to choose music selections from a variety of sources. Correctly setting up your subscription account is important and will directly impact the quality of the audio experience. Please be sure to select HI/FI setting in your subscription account to ensure the highest quality data is delivered to your system.

Your subscription account (Tidal or Qobuz) is independent of SEEK. Your subscription service agreement must be current for SEEK to access music content from your subscription account.

Subscription account setup

TIDAL: [WWW.TIDAL.COM](http://WWW.TIDAL.COM)

Qobuz: [WWW.QOBUZ.COM](http://WWW.QOBUZ.COM)

**Set Up Subscription: OPEN TIDAL or Qobuz account, go to “Settings” and “Quality” set the streaming resolution select ‘HiFi’ in your “WiFi” setting for the highest broadcast audio quality.**

### IMPORTANT:

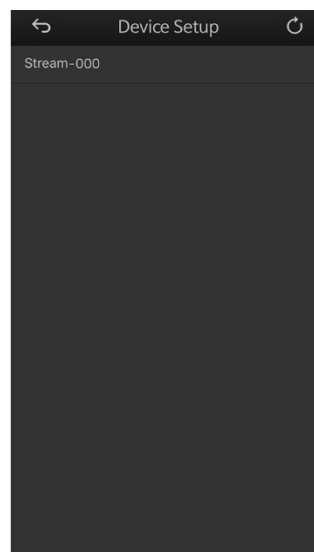
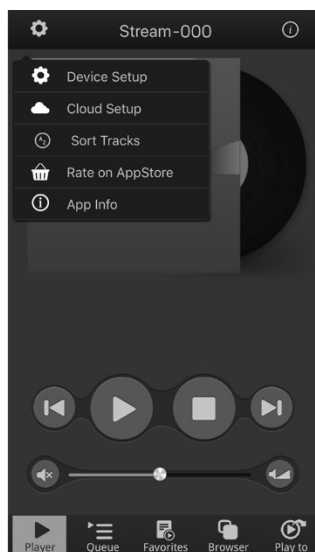
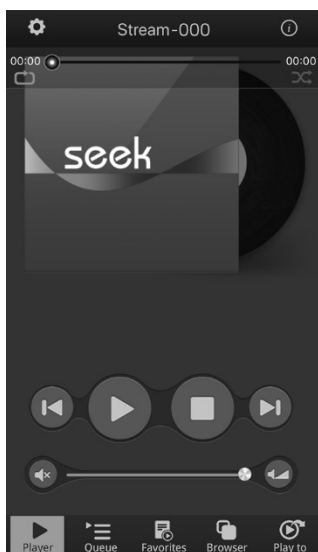


Once you set up your subscription account in TIDAL or Qobuz, you will need to use the same username and password in the SEEK App to connect to your subscription account. **You will also have to make selections in the SEEK app to ensure the highest resolution audio is broadcast to the e.One Stream.**

**Setting Up SEEK:** Open SEEK and open the “Browser” at the bottom of your screen select Tidal and press the 3 horizontal lines in the upper left corner to access the drop-down menu. (This opens several options you will want to become familiar with to utilize all the functions in SEEK). Select “Settings” at the bottom of the menu. Here you can select for Tidal ‘Hi/Fi/Master’ or Qobuz 24/192 streaming output. This controls your Streaming service from TIDAL and Qobuz through SEEK and allows SEEK to pass the Hi Resolution files you’ve selected in your subscription account to your component. Press the return arrow to go back one screen.

**Making the connection from SEEK to the e.One Stream:**

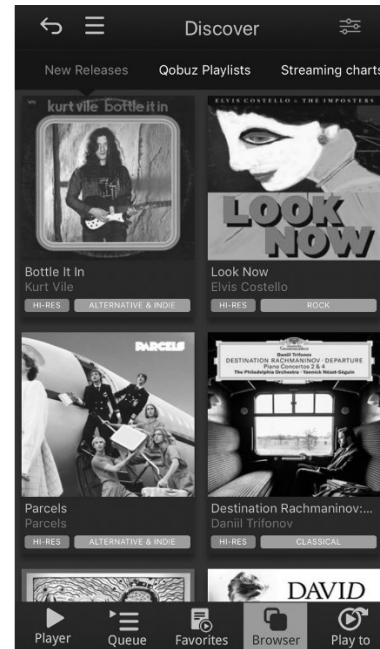
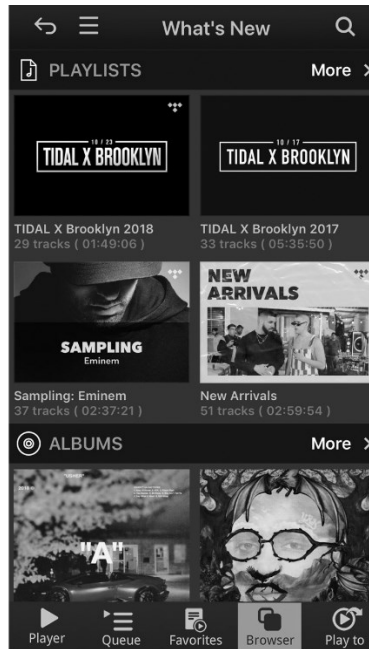
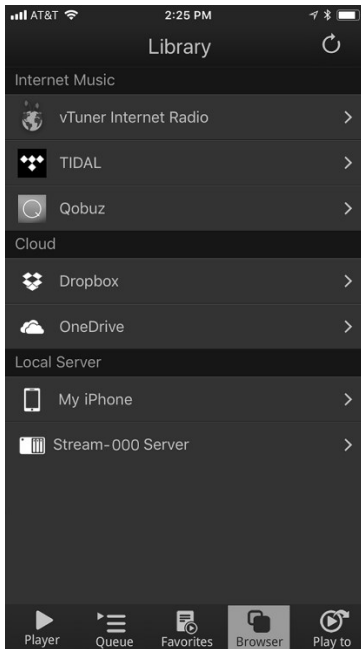
1. Main screen press cog wheel (Image1)
2. Select device set up (Image2)
3. Choose the device, each Stream has a unique serial number (Image3)
4. Selecting the device displays Firmware and serial number. This is where you check for firmware updates. (Image4)
5. Pressing the arrow back goes back one page until you reach the main page.





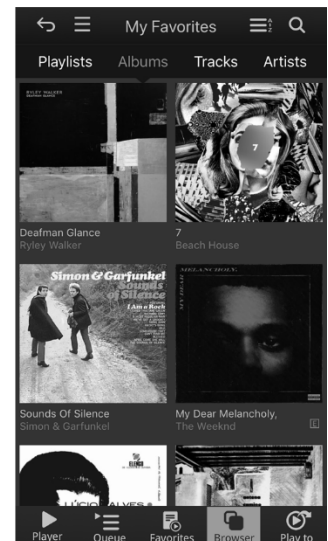
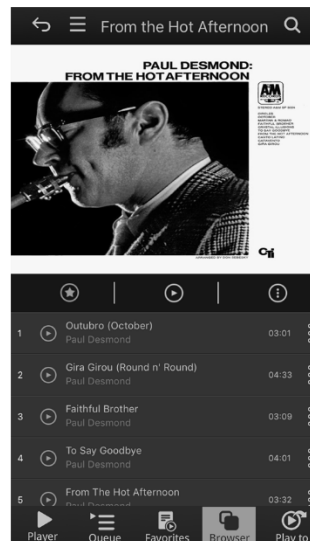
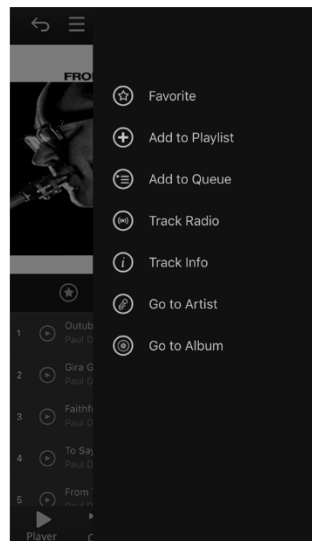
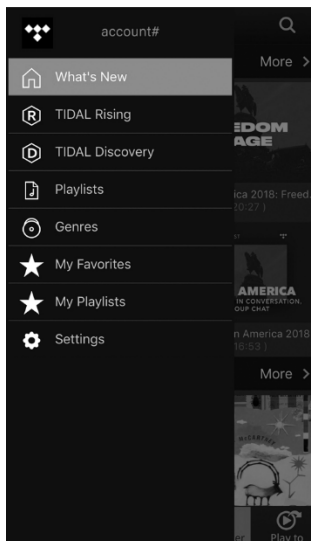
## Selecting music:

1. Press browser (Image1)
2. Choose Internet music source from library: Tidal, Qobuz, Vtuner, Cloud, Local Server (USB-A drive) (Image1)
3. Choose from Playlists, Albums, Tracks (explore using the search function to find music) (Image2)
4. Press “more” to open categories of music and Masters (MQA) on Tidal (Image2)
5. Press any of the headings in Qobuz to search music that will play up to the selected rate in settings (Image3)



## Browser music management:

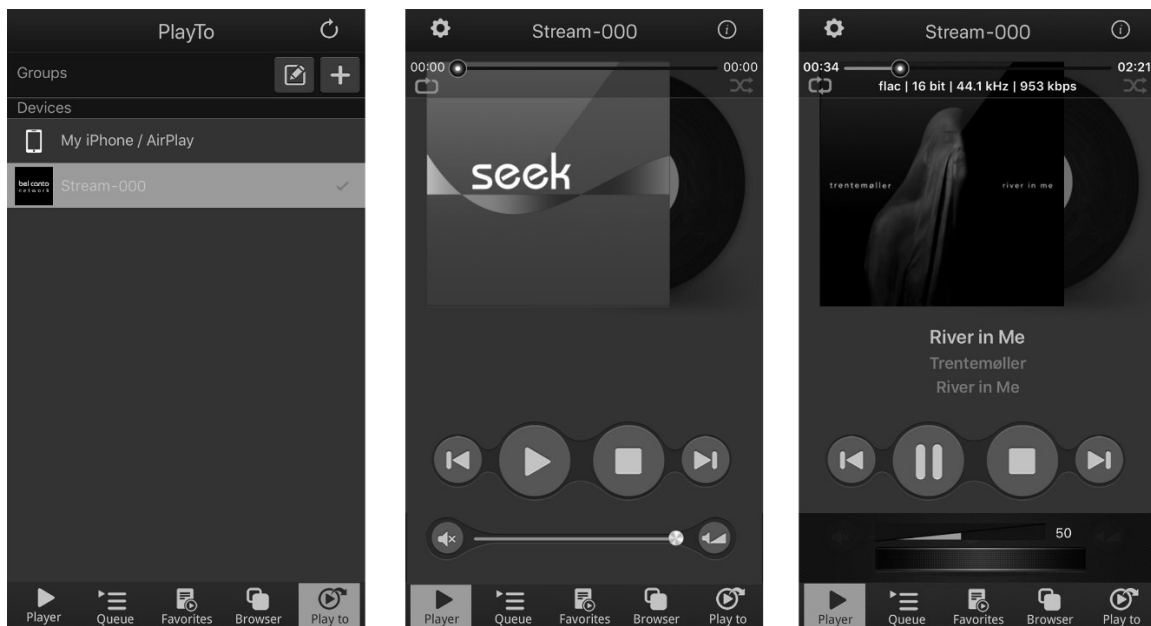
1. Press the 3 horizontal lines while in the browser screen in the upper left corner to open drop-down menu, each category contains pre-selected music as described in addition to “My Favorites” and “My Playlist” that allow you to place selected music in each folder. (Image1)
2. The 3 circles on the right of each track, (Image3) will open a drop-down menu (Image2) that offers options; “go to album” or places the track in a folder “Favorites” (Image4) or “add to Queue” or “search artist”.
3. Select a specific track from the browser by pressing the line item, this will play once or repeat depending on your settings indicated by the blue loop symbol on the upper left portion on the main page.
4. *Middle bar (Image3)* play symbol plays the complete album, star places the album in a favorite folder and 3 dots opens drop down menu allowing you to add to a playlist or Queue.





## Using the SEEK app

1. Press the “Play to” at the bottom of the main screen, (Image1) this displays devices on your network. And lets you select the device you would like to send music.
2. Main screen (Image2) shows album art and controls track, pause, stop function and volume management
3. Touching the album artwork toggles the display that shows the codec, bit/ sample rate and time remaining in track (Image3)
4. Managing volume, we suggest you use the micro volume (Image3) when changing levels, press the speaker up symbol at the right of the volume slider (Image2) to choose micro volume.
5. Blue circle upper left corner (Image2) gives you the option to repeat track, play track once, advance track.
6. 3 dots upper right corner opens a page to select gapless track play
7. You should always see the device you are playing to at the top of the screen (image1) when in network.
8. **We recommend setting the volume to 100 on your seek ap when the stream2 output is connected to a DAC or PRE Amplifier. CAUTION understand how the volume works on the stream, incorrect use could result in poor performance or damage to your components or speakers if connected directly to a power amplifier or powered speakers.**



# Specifications

Maximum Digital output to 24/192	AES, SPDIF, TOSLINK
Ultra-Low noise Master clocks:	<100fs jitter from 100Hz to 1MHz
2Vrms Analog Output:	<0.01% distortion, 20Hz - 20Khz
<b>General:</b>	
Power On usage:	15W Max
Power Off usage:	0.0W
Internally Set Operating Voltages:	100-120VAC or 230-240VAC 50/60 Hz
Size:	8.5 x 3.5 x 12[inches], 216 x 88 x 305[mm] (WxHxD)
Weight:	15lbs, 7Kg

*Features and specifications are subject to improvements and changes without prior notice.*



## Declaration of Conformity

**Application of Council Directive(s):**

2004/108/EC and 2006/95/EC, as amended

**Standard(s) to Which Conformity Is Declared:**

EN 55013:2001 + A1:2003 + A2:2006

EN 55020:2007

EN 61000-3-2:2006

EN 61000-3-3:1995 + A1:2001 + A2:2005

EN 60065:2002/A12:2011

**Manufacturer:**

Bel Canto Design, Ltd.

Minnesota, USA

The equipment identified here conforms to the Directive(s) and Standard(s) specified above.

**Type of Equipment:** Ethernet Bridge

**Models:** Stream 2

**Date:** July, 2022

# bel canto

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