



Viz Connect Audio

Version 1.0.0



Viz Connect Audio

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Technical Support

For technical support and the latest news of upgrades, documentation, and related products, visit the Vizrt web site at www.vizrt.com.

Revised on 06/30/26

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CHAPTER 1 INTRODUCTION

Viz Connect Audio plays a crucial role in integrating analog audio into digital NDI® ecosystems, particularly in cloud-based settings. It converts audio from traditional XLR and ¼" connectors into NDI streams, allowing seamless integration with network-based video systems. Viz Connect Audio is versatile, supporting both microphone and line-level inputs with options for phantom power, ensuring compatibility with a wide array of audio equipment.

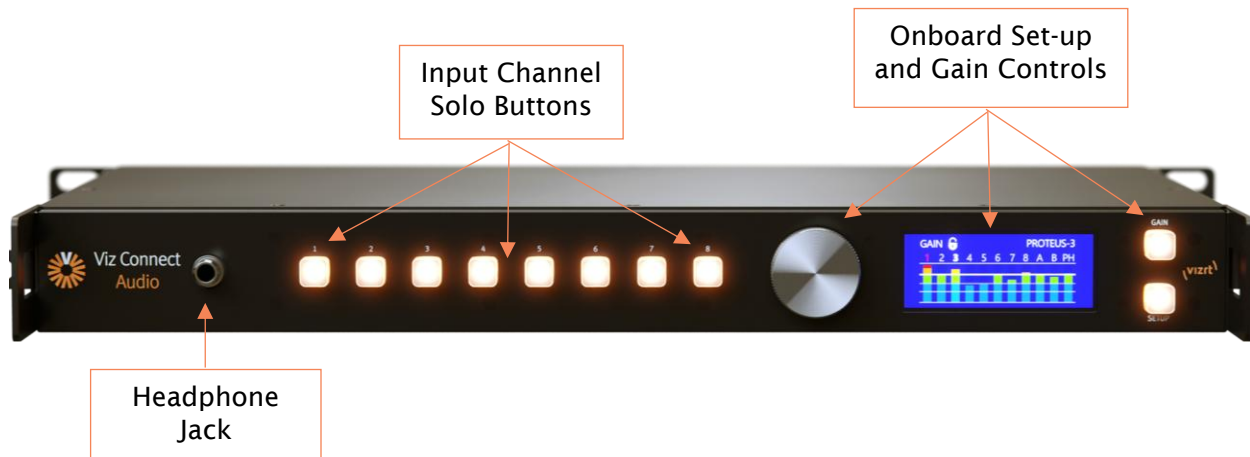
SECTION 1.1 OVERVIEW

Viz Connect Audio offers on-device controls for basic functions like signal monitoring and channel routing, which simplifies adjustments during live or dynamic settings. For more detailed NDI configuration, users can access a dedicated webpage, enabling fine-tuning of network audio settings for optimal performance. Additionally, the device maintains support for local analog outputs, facilitating traditional audio monitoring or routing.

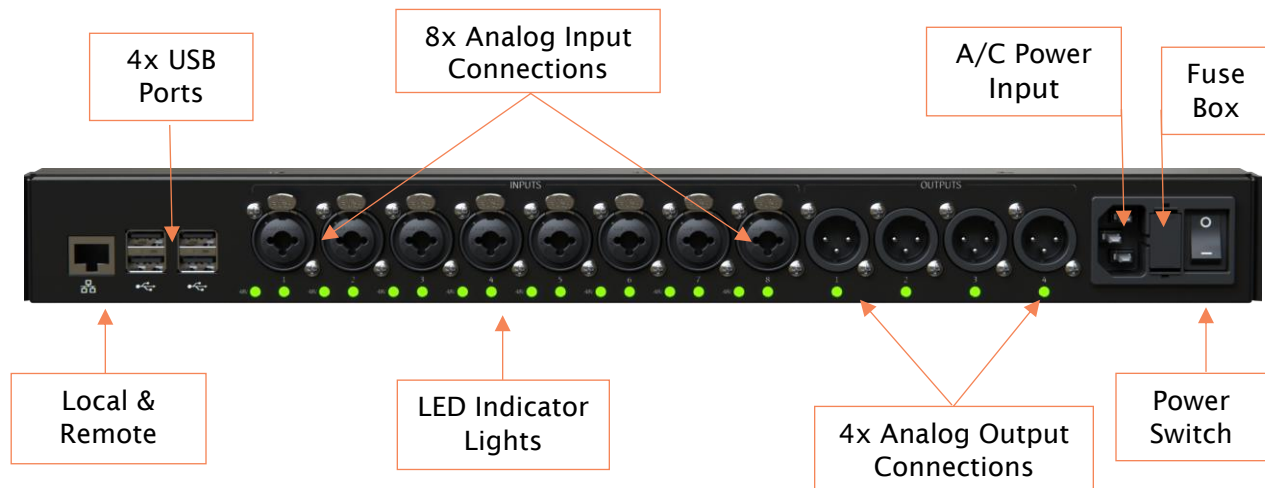
In essence, Viz Connect Audio streamlines audio workflows, supports diverse audio sources, and delivers both simplicity and sophistication in managing audio within an NDI environment, making it an essential tool for professionals in broadcasting, live events, or any scenario requiring robust audio-video integration.

Chapter 2 HARDWARE FEATURES

SECTION 2.1 FRONT PLANE



SECTION 2.2 BACKPLANE



SECTION 2.3 SAFETY

Safe installation and connection of your Viz Connect Audio will ensure your equipment operates safely and reliably, it's important to follow these instructions for proper installation and connection.

Safety Instructions:

1. Do not obstruct ventilation openings with items such as papers, tablecloths, curtains, or similar objects.
2. Water and Moisture: Do not use this product near water, such as near a bathtub, washing machine, swimming pool, or other wet locations.
3. WARNING: This apparatus must be connected to a mains power outlet with a protective earth (ground) connection.
4. The appliance coupler (plug) serves as the disconnect device and must remain readily accessible and operable.

Instrucciones de seguridad en español:

1. La ventilación no debe estar obstruida con objetos como papeles, manteles, cortinas, y cosas similares.
2. Agua y Humedad: No usar este producto cerca del agua (por ejemplo: bañera, lavadora, alberca, y otros lugares mojados).
3. ADVERTENCIA: Este aparato se debe conectar a la toma de corriente de la red eléctrica con una conexión de puesta a tierra de protección.
4. El conector (enchufe) del aparato es el dispositivo de desconexión y debe permanecer fácilmente operative.

To safely connect your equipment, plug the provided power cord, which includes a grounding pin into a compatible, grounded three-prong socket-outlet. Insert the plug firmly, avoid using extension cords or adapters, and keep the cord clear of heat or sharp edges. Grounding is crucial for safety, directing stray current to the ground to protect you and the equipment.



Note: Risk of Electrical shock. Disconnect all power sources before servicing.



This Protective Earth (ground) symbol identifies terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or terminal of protective earth (ground) electrode.



This indicates that the equipment must be powered using 100 to 240 Volt Alternating Current.

Replacement fuse: 3A 250 V AC DC Fuse Cartridge, Glass Holder 5mm x 20mm, Slow Blow.

Your Viz Connect Audio comes with an additional fuse in the instance the primary fuse is blown. The fuse box is located between the power input and the power switch, simply use a small flathead screwdriver in the open section to pop the cover off. The extra fuse is within the compartment box.



SECTION 2.4 RACK MOUNTING

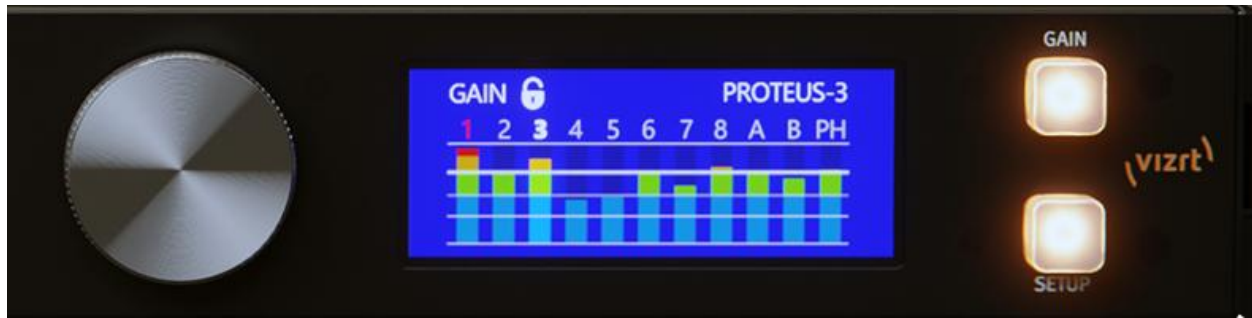
Viz Connect Audio is designed for convenient mounting in a standard 19" rack. The unit comprises a 1 Rack Unit (RU) chassis supplied with 'mounting ears' designed to permit mounting in standard 19" rack or deskside architecture.

The units weigh nearly 6.5 pounds (2.95 KG).

Please keep in mind that adequate cooling is a particularly important requirement for virtually all electronic and digital equipment, and this is true of Viz Connect Audio as well. We recommend allowing 1.5 to 2 inches of space on all sides for cool (i.e., comfortable 'room temperature') air to circulate around the chassis. Good ventilation at the sides is important, and ventilated rack is recommended.

When designing enclosures or mounting the unit, supplying good free air movement around the chassis as discussed above should be viewed as a critical design consideration. This is especially true in fixed installations where Viz Connect Audio will be installed.

SECTION 2.5 HARDWARE CONTROL



2.5.1 MENU BUTTONS

The two buttons to the right of the *Menu* display determine which of the two main menus is displayed, *Gain* or *Setup*.

If a button is already active when it is pressed, the display returns to the top level for that button (effectively, this acts as a 'Home' button).

Turn the knob to cycle through onscreen buttons/controls or scroll through menu options.

- Press the knob to make a selection.
 - Selecting a toggle type button reverses its state.
 - Selecting an action button or menu option may update the display to reveal more options.
 - Selecting a menu activates the menu for selection.
 - Most menus include a *Back*, *Cancel* or *Done* options that returns the prior selection.

Chapter 3 MAIN MENUS

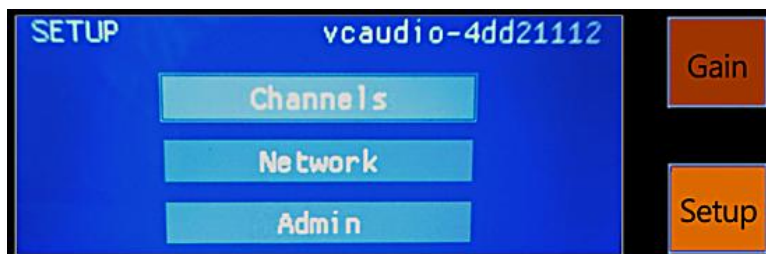
SECTION 3.1 GAIN

The *Display Menu* shows the following elements for each analog input and output:

- *Gain*
 - Screen label located in upper-left of menu.
- *Lock* –
 - This is a toggle switch and must be in unlocked state to make changes.
 - Auto-lock after inactivity.
- *Name*
 - local device name appears in the upper right corner.
- Mono VU strips:
 - Displays average level for stereo outputs (A&B).
 - Source labels turn red to indicate clipping.
 - Rotate the *Knob* to traverse sources/outputs.
 - The current position is shown by highlighting with Bold text for the label.
 - Punch the *Knob* select and activate *Gain* control for the source/output at the current position.
 - Rotate the *Knob* again to adjust the level, then punch again to exit to selection level.
 - While the Knob is in 'set mode', the current value will appear as an overlay.



SECTION 3.2 SETUP

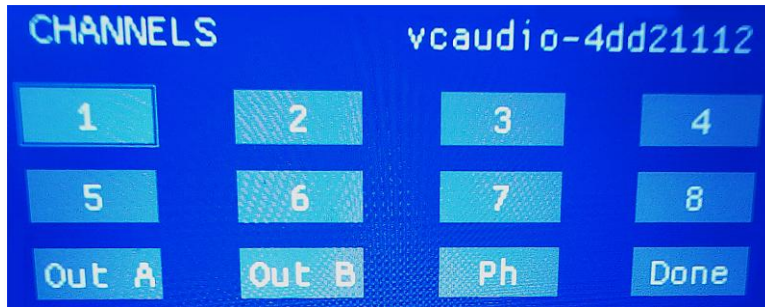


The *Setup* button provides access to individual source and output settings along with most global options (NDI settings are hosted in the webpage).

- *Name*
 - Local device name located in upper-right of menu.
- *Channels*
 - Displays channel selection screen.

- *Network*
 - Will take you to the top-level *Network* system.
- *Admin*
 - Will take you to the top-level *Admin* screen.

3.2.1 CHANNELS



- *Name*
 - Local device name located in upper-right of menu.
- Rotate the *Knob* to navigate *Channel* buttons such as:
- Punch the *Knob* to select a *Channel* to edit.
 - To go back without selecting, press the *Setup* button again, or select *Done*.

EDIT INPUT



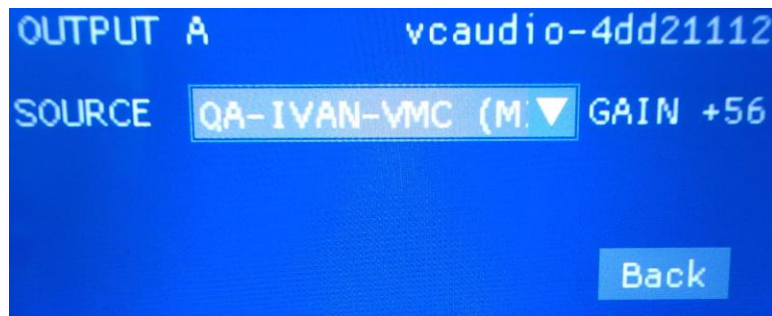
- *Level*
 - Drop-down menu option for *Microphone* or *Line*.
- *Gain:*
 - Display's value for the channel only (setting controlled in the *GAIN* screen).
- *Phantom Power*
 - Select to display the *Phantom Power* option screen.
- *Back*
 - Apply settings and go *Back* to the channel selections screen.

Phantom Power



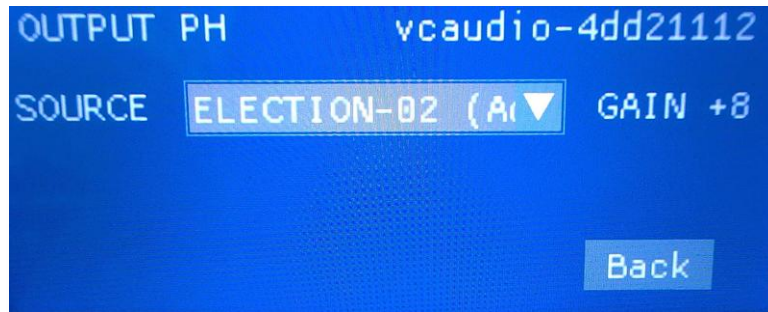
- *Phantom Power*
 - Click on Radio buttons to activate/deactivate.
- *Warning label*
 - As shown above.
- *Done*
 - Apply settings and go back to the *Edit Input* screen.

EDIT OUTPUT



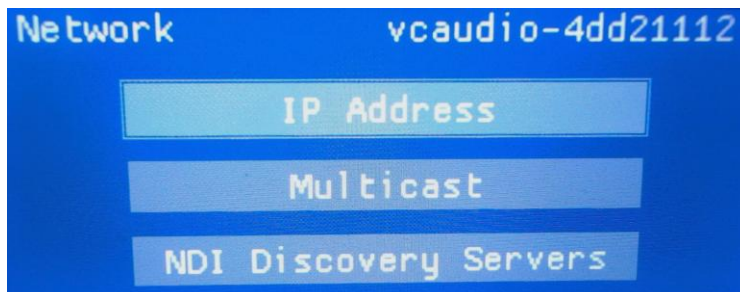
- *SOURCE*
 - Menu enabled for OUT A, B and Ph(headphone) selections only.
 - NDI source lister (rotate *Knob* to navigate, punch to select).
- *GAIN*
 - Displays value for the channel only (setting controlled in the *GAIN* screen).
- *Phantom Power* – Is disabled for outputs.
- *Back*
 - Apply settings and go back to the Channel selections screen.

EDIT PH (HEADPHONE)



- **SOURCE**
 - This menu lists NDI audio sources for LAN (such as selecting a source for OUT A or B).
 - Menu defaults to None; sets a remote NDI source as the default audio for the headphone output.
- **Back**
 - Apply settings and go back to the channel selections screen.

3.2.2 NETWORK



- **Network**
 - Main Network menu (home page).
- **IP Address**
 - Opens *IP Address* configuration page.
- **Multicast**
 - Opens *Multicast* configuration page.
- **NDI Discovery Servers:**
 - Opens *Discovery Servers* configuration page.

IP ADDRESS

- *IP Address*
 - Display shows current IP Address.
- *MODE*
 - Menu shows AUTOMATIC or STATIC options.
 - Select STATIC to enable entry boxes below:
 - *IP ADDRESS*
 - Select this control to open the Static IP edit page.
 - Twist knob to navigate through controls, punch to select.
 - Twist on selected number field to cycle through 0-9+Blank and punch to confirm/enter value.
 - Select *Cancel* to return to the previous screen without retaining changes, or *Done* to accept and return.

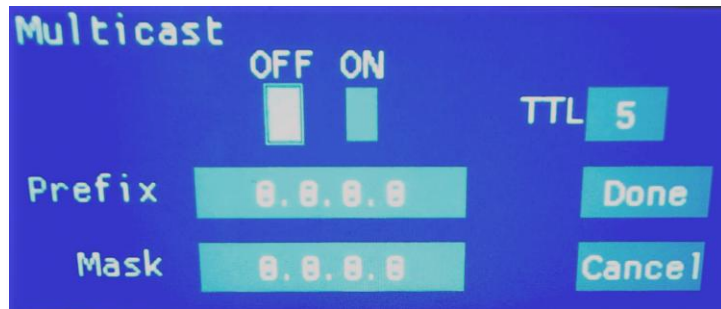
Net Mask

- Select this control to open the *Net Mask* edit page.
- Twist the *Knob* to navigate through controls, punch to select/activate.
- Twist on selected number field to cycle through 0-9+Blank, punch to confirm/enter value.
- Select *Cancel* to return to the previous screen without retaining changes, or *Done* to accept and return.

Gateway

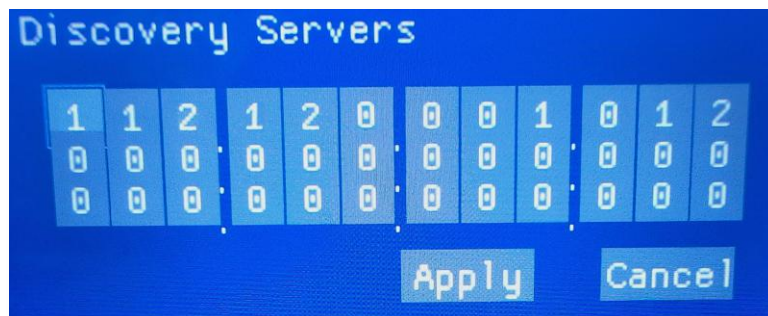
- Select this control to open the *Gateway* edit page.
- Twist the *Knob* to navigate through controls, punch to select/activate.
- Twist on selected number field to cycle through 0-9+Blank, punch to confirm/enter value.
- Select *Cancel* to return to the previous screen without retaining changes, or *Done* to accept and return.

MULTICAST



- Controls on the *Multicast* screen work as described for similar screens above.
- Multicast switch, when *ON* enables the entry boxes below:
 - Click individual controls to open edit pages for:
 - *IP Prefix*
 - *MASK*
 - *TTL*
 - Select *Cancel* to return to the previous screen without retaining changes, or *Done* to accept and return.
- *Done*
 - Apply settings and go back to the main *SETUP* screen.

NDI DISCOVERY SERVERS



- Select this control to open the *Multicast* settings page.
- Twist the *Knob* navigate thorough controls, punch to select/activate.
- Twist on selected number field to cycle through 0-9+Blank, punch to confirm/enter value.
- Select *Cancel* to return to the previous screen without retaining changes or *Apply* to accept and return.

3.2.3 ADMIN



- *Audio Standard*
 - Menu offers a (global) SMPTE and EBU choice; controls the alignment level shown on the VU meter graticules.
- *Firmware*
 - Display field
 - Update
 - This button opens a file explorer to select a firmware update file (typically from a USB thumb drive).
- *Done*
 - Apply settings and go back to the main *SETUP* screen.

3.2.4 FACTORY RESET

- 1 Power off the device using the rear power switch.
- 2 Press and hold *Solo* buttons 1, 3, and 5, then power on the device while continuing to hold the buttons.
- 3 Keep holding the buttons until the LCD displays the following:

“Resetting to factory defaults. Release keys to continue.”



- 4 Release *Solo* buttons 1, 3, and 5 to begin the reset process.

The LCD will then display:

“Resetting to factory default settings. Power down or press Solo 1 and 5 to reboot.”

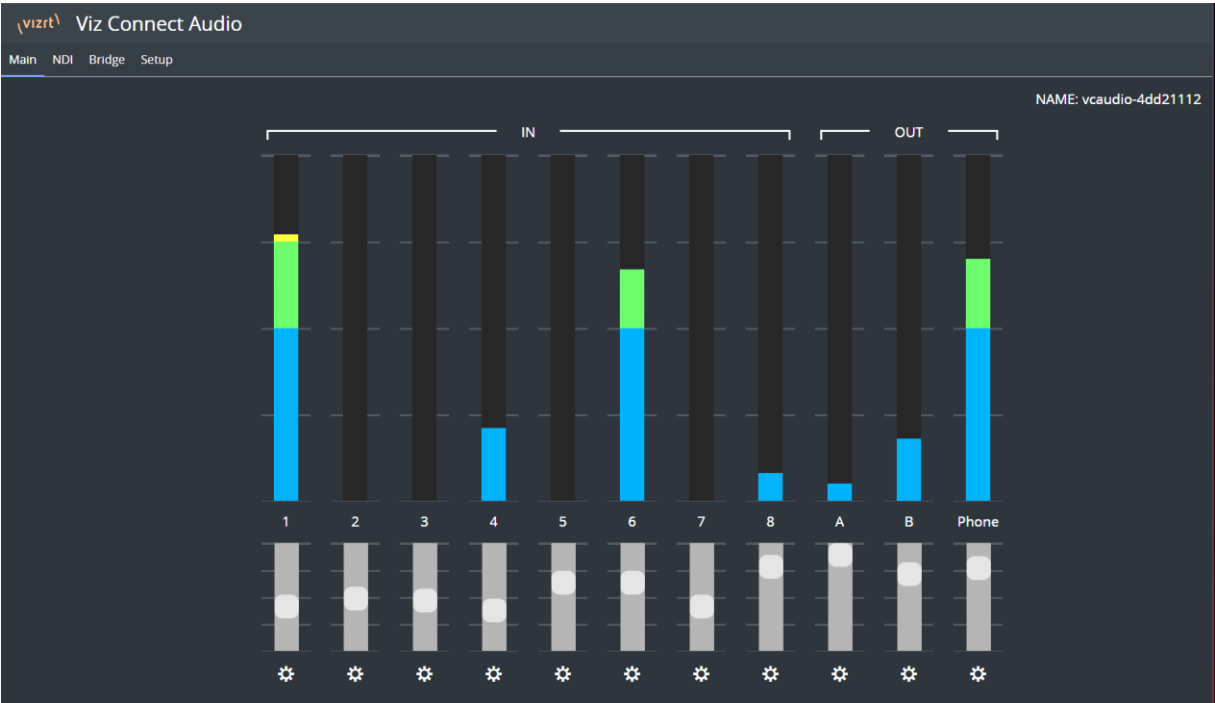


- 5 Choose one of the following to complete the reset:
 - a. Manually power down the device, then power it back on, or
 - b. Press *Solo* buttons 1 and 5 to reboot immediately.

Chapter 4 WEBPAGE

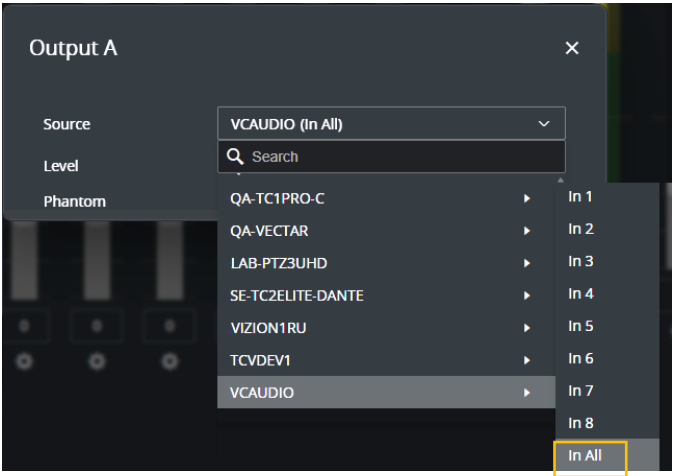
SECTION 4.1 MAIN TAB

The Viz Connect Audio Webpage is home to NDI options, *Bridge*, *Setup* and for those who have their systems mounted in a rack.



4.1.1 INPUT/OUTPUT CONFIGURATION

To open an individual input, click on the *Configuration Gear* located at the bottom of the screen under each input. The information provided here is the same as the *Input* Screen in the *Menu* display.



Note: Select "In All" in the Source menu to output all audio as a single NDI source.

SECTION 4.2 NDI TAB

The screenshot shows the 'Viz Connect Audio' application window with the 'NDI' tab selected. The interface includes a top navigation bar with 'Main', 'NDI', 'Bridge', and 'Setup' tabs. The 'NDI' tab is active, displaying configuration options for NDI Groups, Discovery Servers, and NDI Device Alias. The 'NAME' field is set to 'vcaudio-4dd21112'. The 'NDI Device Alias' field is set to 'VCAudioBar'. Under 'NDI Groups', the 'Receive' field is set to 'Public, Control' and the 'Send' field is set to 'Control, StudioC, Hall1, Hall2'. The 'Discovery Servers' checkbox is checked, and the 'IP Addresses' field is set to '192.168.1.100'. A 'Save' button is located at the bottom center of the configuration area.

- **NAME**
 - Local device name located in upper-right of menu.
- **NDI Device Alias**
 - You can personalize the device name in *NDI Access Manager*, and it will appear here.
- **Receive**
 - This is the group(s) in which you can see NDI signals. This is the type of group you configure on an NDI decoding device such as a monitor.
- **Send**
 - This is the group(s) in which signals are available. This is the type of group you configure on an NDI encoding device such as a camera.
- **Discovery Servers**
 - Discovery Server can be set up on multiple redundant servers. This requires applications that support NDI 5 or higher. You can enter a comma separated list of server IP addresses, or hostnames, in NDI Access Manager. If using an IP address, make sure the servers are configured with IP address that do not change, either setup with a static IP or using DHCP reservations. For systems connected to multiple Discovery Servers, all servers will be updated with source registration and availability.

SECTION 4.3 BRIDGE TAB

The screenshot shows the 'Viz Connect Audio' application interface. At the top, there is a navigation bar with 'Main', 'NDI', 'Bridge' (selected), and 'Setup' tabs. The 'Bridge' tab is active, displaying configuration fields for a bridge named 'East'. The fields include 'Bridge Name' (East), 'Server IP Address' (192.168.1.100), 'Port' (5990), and 'Encryption Key' (aBmayPFLF6ueZ9). A 'Join' button is visible on the right. Below the fields, there are two status indicators: 'Bandwidth' (Idle) and 'Status' (Ready). The top right corner shows the device name 'NAME: vcaudio-4dd21112'.

- **Bridge Name**
 - Identifies the NDI audio streams from this local device to receivers connected to the same *Host Bridge*.

Note: Sources from this Bridge client will be grouped under this name, Bridge Names must be unique.

- **Server IP Address**
 - The IP address of the Host Bridge.
- **Port**
 - The Port used by the Host Bridge.
- **Encryption Key**
 - The Host Bridge's encryption key.
- **Bandwidth & Status**
 - Text display field show relevant messaging just as in NDI Bridge.

Chapter 5 SETUP TAB

- **Audio Standard**
 - SMPTE (Default)
 - EBU
- **Firmware**
 - Display's installed firmware version.
 - Update button – click to open file browser to select an update file previously downloaded.
- **Network**
 - IP Address – display field shows the active value.
 - Mode
 - Automatic: Enables DHCP.
 - Manual: Enables the manual IP address entry field at right.
 - Net Mask
 - Gateway
- **Multicast** (toggle button)
 - IP Address
 - Mask
 - TTL

- Date and Time
 - Option menu (hoover mouse over options to for full description):
 - *Use Internet Time Server* – enables server entry field at right.
 - *Use Internal clock*
 - *Manual*
 - Time/Date fields
 - Except in Manual mode, these controls are ‘display only.’
 - In *Manual* mode, these controls support direct entry, and the SET button is enabled.