

Configuration and Administration Guide for the

OneLINK Bridge

AV Interface

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Overview

This guide covers the OneLINK™ Bridge AV Interface, which is available as the receiver only, as part of a camera and receiver system, or with an interface module for use with a RoboSHOT HDMI or third-party camera:

- 999-9595-000/001/009 – receiver only
- 999-9950-200/201/209 – RoboSHOT 20 UHD HDBT OneLINK System (black RoboSHOT 20 UHD camera)
- 999-9950-200W/201W/209W – RoboSHOT 20 UHD HDBT OneLINK System (white RoboSHOT 20 UHD camera)
- 999-9960-200/201/209 – RoboSHOT 12 HDBT OneLINK Bridge System
- 999-9963-200/201/209 – RoboSHOT 30 HDBT OneLINK Bridge System (black RoboSHOT 30 HDBT camera)
- 999-9963-200W/201W/209W – RoboSHOT 30 HDBT OneLINK Bridge System (white RoboSHOT 30 HDBT camera)
- 999-9690-000/001/009 – OneLINK Bridge System for RoboSHOT HDMI Cameras
- 999-9630-000/001/009 – OneLINK Bridge System for Sony/Panasonic Cameras
- 999-9660-000/001/009 – OneLINK Bridge Systems for Cisco Precision Series Cameras
- 999-9620-000/001/009 – OneLINK Bridge System for Polycom EagleEye IV Camera

Part number suffixes indicate power cord set types and (where applicable) color. Those ending in 00 or 00W include cord sets for use in North America; 01 and 01W include cord sets for use in Europe and the UK; 09 and 09W include cord sets for use in Australia and New Zealand.



What's in this Guide

This guide provides information about:

- Unpacking the OneLINK Bridge AV interface
- The OneLINK Bridge AV interface's physical features
- Installing the OneLINK Bridge AV interface
- Configuring the OneLINK Bridge AV interface
- Telnet API
- Specifications
- Troubleshooting and maintenance
- Warranty and compliance/conformity information

Features

- Converts any conference room to a BYOD environment, delivering a USB stream for soft conferencing clients
- Incorporates Vaddio's market-leading AV Bridge functionality, connecting professional AV equipment to PC applications via USB 3.0 media stream
- Simple, clutter-free camera installation – power, control, video, and streaming over one Cat-5e or better cable
- Extends installation distance for HDBaseT cameras up to 100 m (328 ft.)
- Video with audio: Simultaneous uncompressed USB 3.0, HDMI 1.4b, and 3Gb/s HD-SDI; passes IP stream if available from source
- Two balanced audio inputs – line level or mic level; two balanced audio outputs, line level
- Control via web interface or Telnet; passes web-based, Telnet, and RS-232 serial control to connected devices
- Front panel buttons: Display the IP and MAC address for the device on the display outputs; reboot
- Status lights to show activity – USB, Network, Source, and OneLINK

A Quick Look at the OneLINK Bridge AV Interface

This section covers the physical features of the OneLINK Bridge AV interface.

Note

The OneLINK Bridge is not a camera control device. You cannot access camera control from the OneLINK Bridge AV interface's IP address.

Front Panel



- **USB** indicator – Illuminates when a USB stream is present.
- **Network** indicator – Illuminates when connected to the IP network.
- **Source** indicator – Illuminates when a video input is detected.
- **OneLINK** indicator – Illuminates when the OneLINK Bridge detects a connection to an HDBaseT device or to the OneLINK HDMI EZIM.
- **Display IP and MAC Address** button (illuminated blue) – Outputs the OneLINK Bridge IP and MAC addresses as an overlay on the HDMI, HD-SDI, and USB video outputs.
- **Power System Reset** button (illuminated red) – reboots the OneLINK Bridge without affecting the connected camera.

Connector Panel



- **48 VDC 1.36 AMP** – Connect only the power supply provided with the unit.
- **OneLINK Digital Camera Interface** – All connectivity to the HDBaseT camera or switcher (or to the OneLINK HDMI EZIM): power, network, control, video, and (if available) audio
- **HDMI** – Video from the connected camera or other source
- **USB 3.0** – Uncompressed video output with PCM audio for conferencing applications
- **HD-SDI** – Video output from the camera
- **Network** – IP streaming (if available from source) and control
- **RS-232** – Control pass-through to the camera
- **Audio I/O Line Out 1 and Line Out 2** – Far-end audio from conferencing application or as configured in the audio matrix
- **Audio I/O Mic/Line In 1 and Mic/Line In 2** – Microphone or other audio inputs

Connector Panel – EZIM

The OneLINK HDMI EZIM is not required when using the OneLINK Bridge with a Vaddio HDBaseT camera; however, it is required when using the OneLINK Bridge with a RoboSHOT HDMI or other HDMI camera.



From left to right:

- **Camera power jack** – Power to the camera. In each camera-specific kit, the appropriate cable is provided to connect your camera to this jack.
- **Ethernet port** – Passes IP streaming (if available) and control.
- **RS-232** – Bidirectional RS-232 connection for camera control.
- **HDMI connection** – HDMI video signal from the camera.
- **OneLINK interface port** – Connection from the OneLINK Bridge to the OneLINK HDMI EZIM. Cat-6 or Cat-7 cabling may provide better performance in noisier RF or EMF environments - when in doubt, use shielded Cat-6 cable. Cable distance between the OneLINK EZIM and OneLINK HDMI Interface is a maximum of 328 feet (100 m).

Use the mounting flange to attach the EZIM to the camera's included wall mount.

Configuration and Administration Tasks

The OneLINK Bridge AV interface provides a web interface to allow configuration and administration using a browser.

The web interface allows password-protected access to tasks such as setting passwords, changing the IP address, viewing diagnostics, and installing firmware updates.

Note

The OneLINK device is not a camera control device. To configure or operate the camera, use the camera's web interface. Refer to the camera's documentation for details.

Compatible Web Browsers

We have tested this product with these web browsers:

- Chrome®
- Firefox®
- Microsoft® Internet Explorer®
- Safari®

We test using the browser version available from the vendor at that time. Older versions of these browsers are likely to work, and other browsers may also work.

Accessing the Web Interface

To get the IP address:

Press the button labeled Display IP and MAC Address, on the front of the unit. The information is overlaid on the HDMI, HD-SDI, and USB video outputs.

To access the web interface:

1. Enter the IP address in your browser's address bar to open the login page.
2. Log in using the `admin` account. The default password is `password`. The web interface opens to the System page.

Note

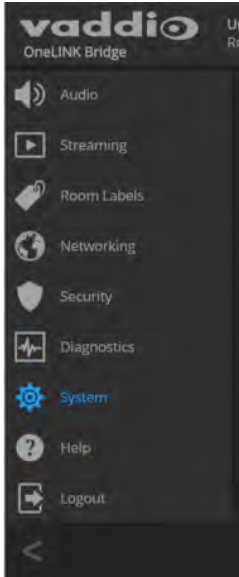
For best security, Vaddio strongly recommends changing the default password. Using default passwords leaves the product vulnerable to tampering. See [Managing Access and Passwords](#).

Web Interface Cheat Sheet

You must log in to access the pages for all system administration tasks.

What do you need to do?	Go to this page
Mute the connected microphone(s)	Mute button on all pages
Adjust audio inputs and outputs	Audio
Allow conferencing applications to control the audio	Streaming
Enable or disable USB streaming	Streaming
Find the current firmware version	System
Change the Admin password	Security
Reboot, restore factory defaults, or run firmware updates	System
Add or change information about the room where the equipment is installed, or the phone number for A/V support	Room Labels
Configure time zone or NTP settings	Networking
Specify whether idle sessions close automatically	Security
Configure IP addressing	Networking
View or change the OneLINK device's hostname	Networking
View or change the OneLINK device's USB device name	Streaming
Access contact information for Vaddio technical support	Help
View or download diagnostic logs for technical support	Diagnostics

For your convenience, the navigation panel also provides an elegant Logout button for ending your session gracefully – and leaving the web interface in a password-protected state.



Configuring Network Settings

NETWORKING PAGE

DHCP addressing is the default setting. The OneLINK device will use the default address of 169.254.10.1 if no DHCP server is available. In this situation, you will need to connect a computer to the OneLINK device's network port and configure network settings. Depending on the computer, you may need a crossover cable.

Caution

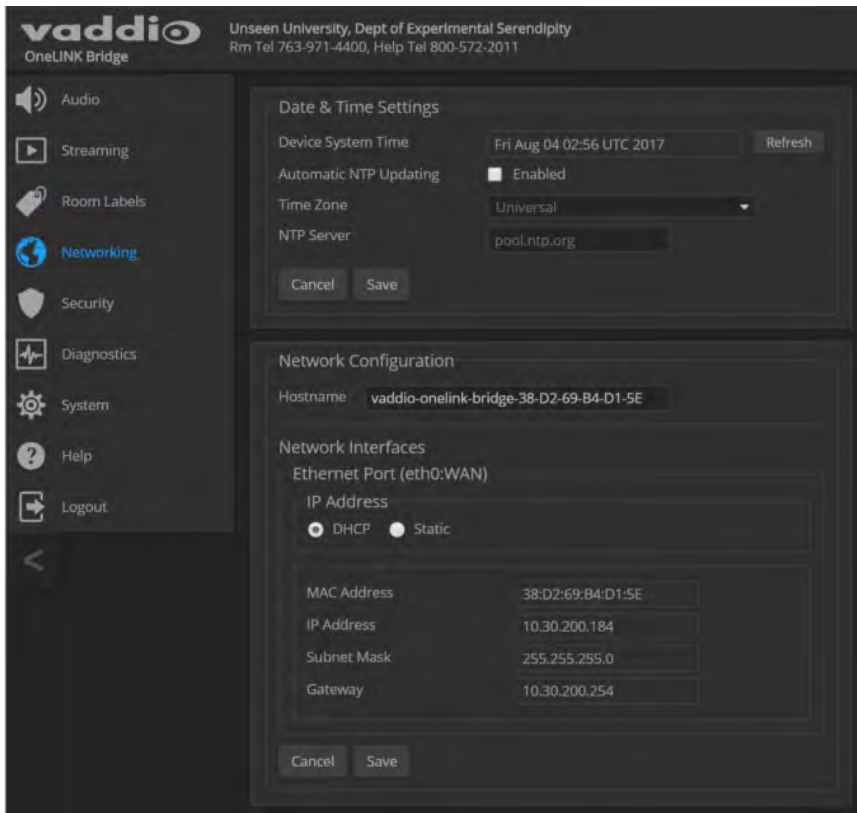
Do not change DHCP/Static addressing, IP address, subnet mask, or gateway unless you are very familiar with the characteristics and configuration of the network where you install the equipment. Errors in network configuration can make the OneLINK BridgeAV interface and the connected equipment inaccessible from the network.

To assign a static IP address:

1. Select static IP addressing.
2. Specify the IP address, subnet mask, and gateway address.
3. Save your changes.

Note

Changes on the OneLINK web interface do not affect the configuration of the connected equipment. If you need to change the way the camera is configured, log in to its web interface.



Assigning a Hostname

NETWORKING PAGE

If your network supports hostname resolution, you can browse to the OneLINK device by hostname even if you cannot readily determine its IP address.

The default hostname for the OneLINK BridgeAV interface is the string `vaddio-onelink-bridge-` followed by the module's MAC address. You can change this in the Hostname field.

To edit the hostname:

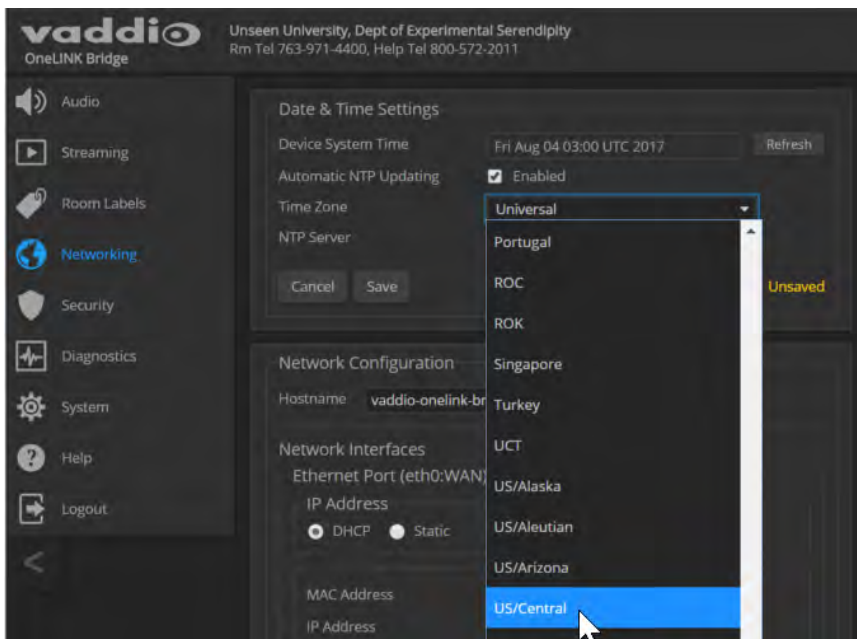
Enter the desired hostname in the Hostname text box, and save your changes.

Specifying Time Zone and NTP Server

NETWORKING PAGE

To ensure that data exports receive accurate time stamps, and to display the correct date and time on the Networking page, NTP updating must be enabled.

1. Enable Automatic NTP Updating.
2. Select the desired time zone from the list.
3. If desired, specify the NTP server to use. Otherwise, use the default.
4. Select Refresh to update the displayed date and time.



Managing Access and Passwords

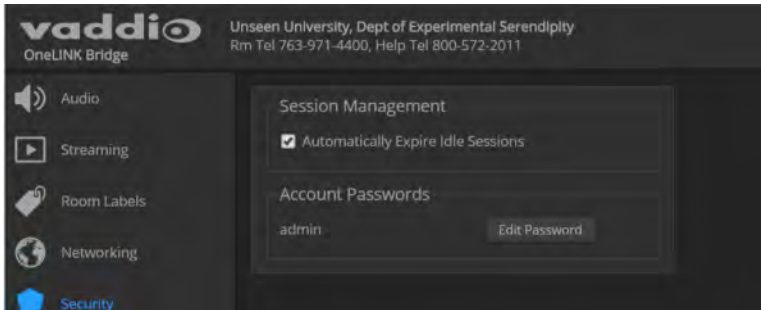
SECURITY PAGE

Things you can do on this screen:

- Set whether inactive sessions log off automatically or not
- Change the password for the admin account (default is `password`)

Note

For best security, Vaddio strongly recommends changing passwords from the default. Using default passwords leaves the product vulnerable to tampering.



Pro Tip

Make sure you have a way to remember the admin password. There is no hardware factory reset.

Adding Room Information to the Web Interface

ROOM LABELS PAGE

On this page, you can provide information about the OneLINK Bridge AV interface's location:

- Name of the organization
- Name of the room where the equipment is installed
- Phone number of the room where the equipment is installed
- Phone number for the AV or IT support team

This information appears on every page of the OneLINK web interface.

Note

This does not affect the room information (if any) presented on the web interface for the attached camera.



Configuring Streaming Settings

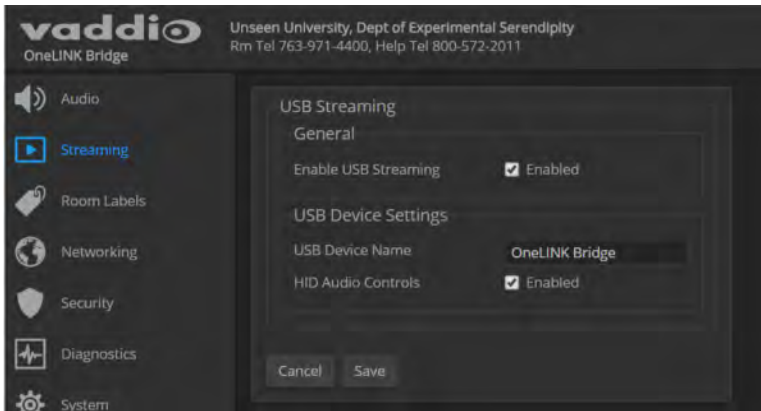
STREAMING PAGE

The camera's settings are used for IP streaming; the OneLINK BridgeAV interface passes the IP stream from the camera and does not require additional IP streaming configuration.

For non-USB cameras, the OneLINK Bridge AV interface provides USB streaming capability. On the Streaming page, you can:

- Disable/enable USB streaming
- Allow the conferencing application to control the audio
- Edit the USB device name

After making changes on this page, save them.



To disable or enable streaming:

USB streaming is enabled by default. Use the Enable USB Streaming checkbox to change this.

To control the audio from a computer:

Check the Enabled box for HID Audio Controls.

Note

When HID Audio Controls are enabled, we recommend controlling volume manually. Allowing the conferencing application to manage the volume automatically can produce undesirable results.

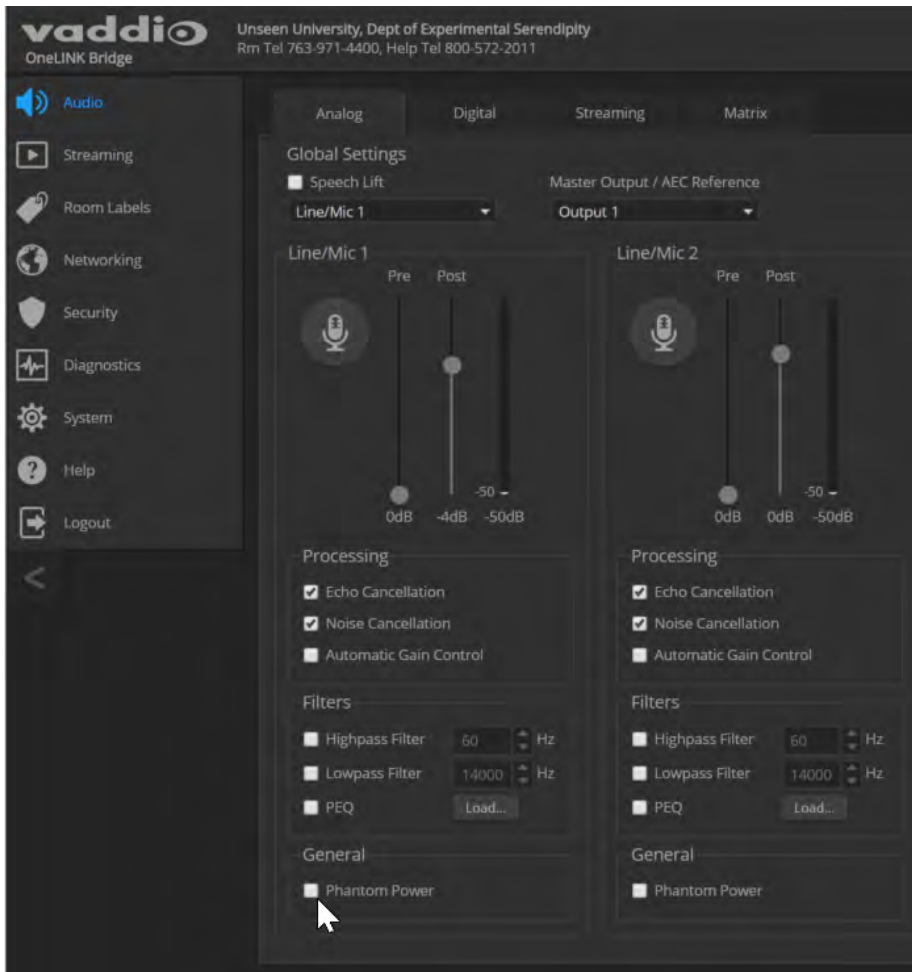
To edit the USB device name:

To change the way the OneLINK device shows up in your soft client's selection list, edit the USB Device Name.

Enabling Phantom Power to Microphones

AUDIO PAGE, ANALOG TAB

To supply 48 VDC phantom power to a connected microphone, check the Phantom Power checkbox below the controls for the Line/Mic input.



Configuring Audio Settings

AUDIO PAGE

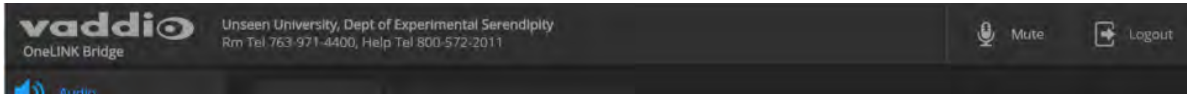
The web interface provides separate controls for each of the audio inputs and outputs:

- Analog (Mic/Line In 1 and 2, and Line Out 1 and 2)
- Digital (HDBT Input left and right, HDMI Output left and right, SDI Output left and right)
- Streaming (USB Playback left and right, HDBT Output left and right, USB Record left and right)

The Matrix tab of the Audio page defines audio routing.

Muting the Microphones

Use the Mute control at the top of any page.



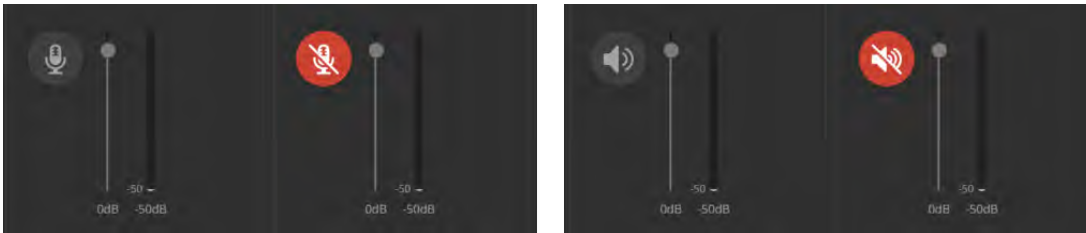
Controlling Volume on Individual Inputs or Outputs

AUDIO PAGE, ANALOG, DIGITAL, AND STREAMING TABS

Use the button to mute the desired audio input or output. Use the slider to set the volume.

Note

For best performance with most computers, we recommend setting the USB Record volume high.



Default Microphone Settings

AUDIO PAGE, ANALOG TAB

Acoustic Echo Cancellation – Enabled; prevents audio feedback by cancelling the specified output signal out of the line/mic input.

Note

If using the OneLINK Bridge with a conferencing codec, ensure that echo cancellation is enabled on only one device, whether it is the OneLINK Bridge or the codec. If echo cancellation is enabled on both the OneLINK Bridge and the codec, unexpected audio effects may result. We recommend disabling echo cancellation on the OneLINK Bridge and allowing the conferencing codec to handle it.

Noise Cancellation – Enabled; suppresses ambient noise.

Automatic Gain Control – Disabled; adjusts gain to compensate for differences in volume as different people speak.



Microphone Settings for Environments with Audiences

AUDIO PAGE, ANALOG AND MATRIX TABS

Speech Lift: Feeds the signal from the specified microphone to the speakers in the room, so that people in the back of the room can hear the person who is speaking.

Chairman Override: Gives priority to the specified microphone when more than one person is speaking. (Matrix tab only)



Microphone Adjustments

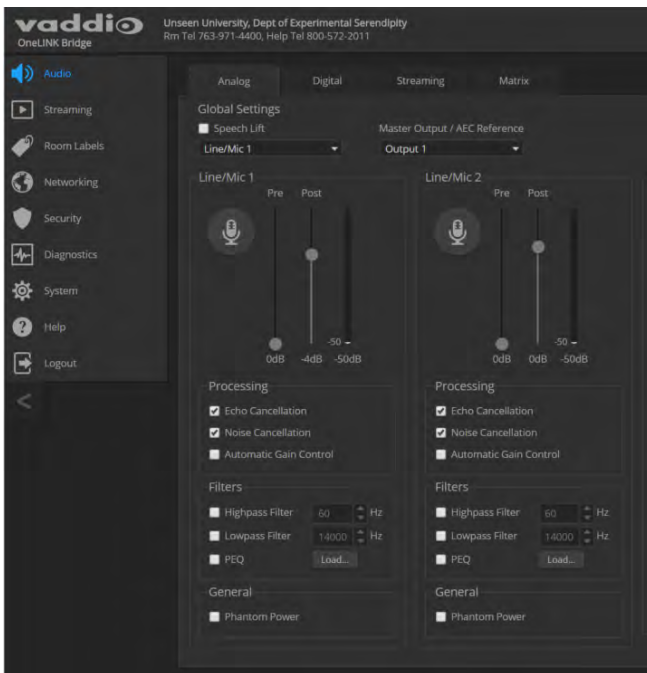
AUDIO PAGE, ANALOG TAB

To adjust for more natural speech reproduction:

- **High-pass filter** – Specify the lowest frequency that the microphone should pick up. Use this setting to reduce low-frequency background noise such as heating/air conditioning systems.
- **Low-pass filter** – Specify the highest frequency that the microphone should pick up. Use this setting to reduce hissing sounds and make speech sound natural.
- **PEQ** (parametric equalizer) – Increase or reduce the volume of specific frequency ranges to compensate for the audio challenges unique to the situation.

Note

As a best practice, use the equalizer to attenuate undesirable frequency ranges rather than to boost the desirable frequencies.



Speaker Adjustments

AUDIO PAGE, ANALOG AND STREAMING TABS

To sync the sound with the video:

If the video lags noticeably behind the audio, check the Delay box for the appropriate audio outputs (Analog or Streaming tab) and enter a delay value in msec. The delay may differ from one output to another.

To compensate for differing speech volumes:

If some people on the far end are inaudible while others are too loud, check the Compressor box to reduce the dynamic range from the connected speakers. (Analog tab only.)

To compensate for specific audio issues on the far end:

Use the equalizers for the analog outputs to attenuate specific frequency ranges. This can help if the far-end audio includes unwanted elements such as a rumbling HVAC system or a cricket in the room.



Default Audio Matrix

AUDIO PAGE, MATRIX TAB

The audio matrix shows where each audio output originates. Each column of the matrix shows one audio output, and each row shows one audio input. Table cells highlighted in blue mean that the input represented in that row is routed to the output represented in that column.

- **USB Playback** left and right (far-end audio from the soft conferencing client) route to **line output 1** (typically the speaker in your conference room).
- **Line/Mic 1** (your room's microphone) routes to **USB Record** left and right (the audio that the participants on the far end hear).
- **HDBT** left and right (far-end audio received as part of the HDMI signal over the HDBT connection) routes to **HDMI Output** left and right, and goes to the HDMI display's speakers.

The screenshot shows the Vaddio OneLINK Bridge configuration interface. The 'Audio' tab is selected, and the 'Matrix' sub-tab is active. The interface displays a grid of audio routing options. The columns represent different audio outputs, and the rows represent different audio inputs. The 'Line/Mic 1' input is highlighted in blue for 'USB Record Left' and 'USB Record Right' outputs. The 'USB Playback Left' and 'USB Playback Right' inputs are highlighted in blue for 'Output 1' and 'Output 2' outputs. The 'HDBT Input Left' and 'HDBT Input Right' inputs are highlighted in blue for 'HDMI Output Left' and 'HDMI Output Right' outputs. A legend on the right indicates that blue cells are 'Enabled', grey cells are 'Disabled', and red cells are 'Speech Lift'.

Input	Output 1	Output 2	USB Record Left	USB Record Right	HDMI Output Left	HDMI Output Right	SDI Output Left	SDI Output Right	HDBT Output Left	HDBT Output Right
Auto Mic Mixer	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db
Line/Mic 1	Off 0db	Off 0db	On 0db	On 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db
Line/Mic 2	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db
USB Playback Left	On 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db
USB Playback Right	On 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db
HDBT Input Left	Off 0db	Off 0db	Off 0db	Off 0db	On 0db	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db
HDBT Input Right	Off 0db	Off 0db	Off 0db	Off 0db	Off 0db	On 0db	Off 0db	Off 0db	Off 0db	Off 0db

Routing Audio

AUDIO PAGE, MATRIX TAB

To specify how the OneLINK Bridge uses a given audio input, locate its row. Locate the column representing the desired output and select the table cell where the desired row and column intersect.

Example: The USB stream has left and right audio channels, but by default Line/Mic 1 provides the source for both channels of outbound USB audio (USB Record left and right) and both channels of incoming USB audio are routed to Output 1 (Audio Line Out 1). You might choose to change the default matrix to provide separate right and left channels of outbound and inbound USB audio.

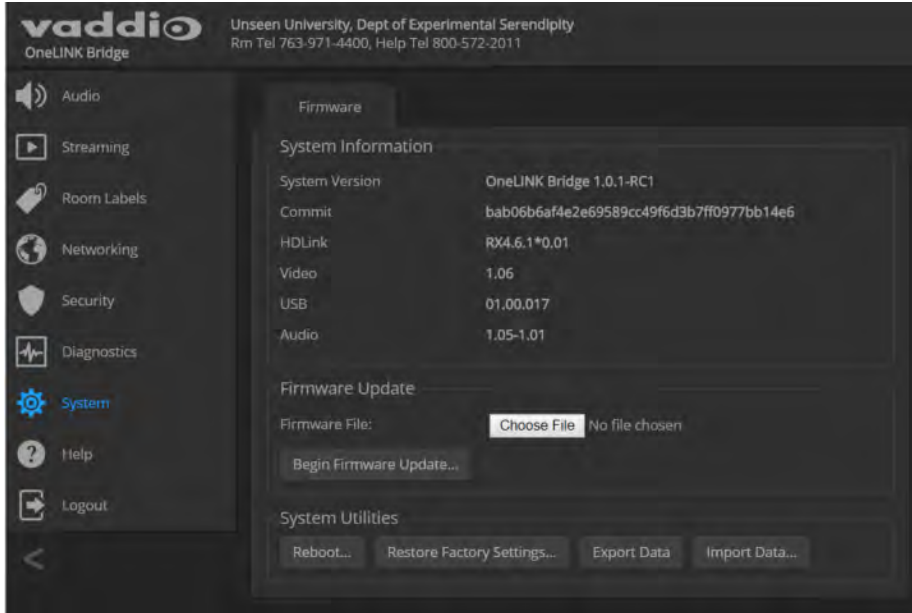
Viewing System Information

SYSTEM PAGE

The information on the System page includes the version – so you don't need to guess about whether the latest update has already been installed.

The System page also provides controls to:

- Reboot the OneLINK device
- Back up or restore configuration data
- Restore factory presets
- Update the firmware



Saving (Exporting) or Restoring (Importing) a Configuration

SYSTEM PAGE

You can save a known good configuration by exporting it. This allows you to quickly configure several OneLINK devices the same way, by importing the configuration to all of them. It also gives you a quick way to go back to a known good configuration if you are concerned about planned changes on a specific unit.

The configuration file can only be imported to a OneLINK device using the same version of firmware from which the file was exported. You cannot export a configuration, update the firmware, and import the configuration – but you won't need to. Firmware updates do not change the device configuration.

To export the current configuration:

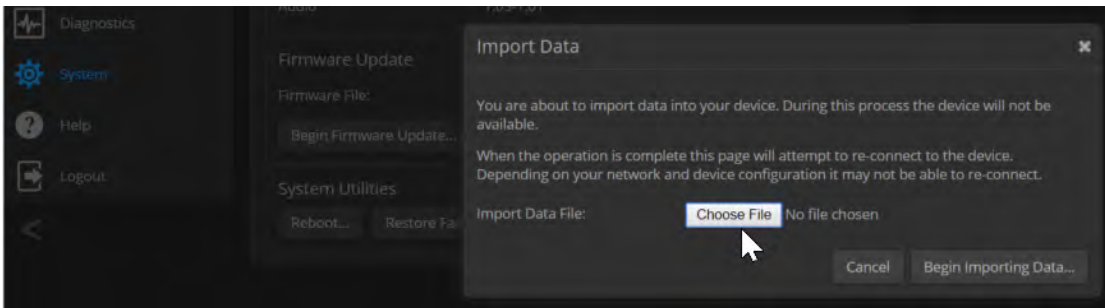
Select Export Data. The configuration file downloads to your computer's default download location as a .dat file. The filename is the device's hostname.

Note

The configuration file can only be imported if the device is using the same version of firmware from which the file was exported. The OneLINK device cannot import a configuration file that was exported from a different version of firmware.

To import a configuration file:

1. Select Import Data. The Import Data dialog opens.
2. Select Choose File, and select the configuration file. The filename is the same as the OneLINK device's hostname, with the file extension .dat. The OneLINK device loads the configuration and reboots.



Rebooting the OneLINK Device

SYSTEM PAGE

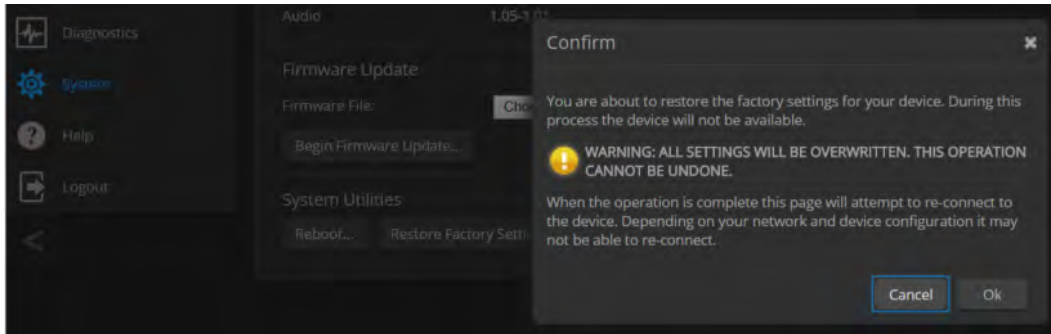
This may help if the OneLINK device stops responding as you expect.

In the System Utilities section of the System page, select Reboot.

Restoring Factory Settings

SYSTEM PAGE

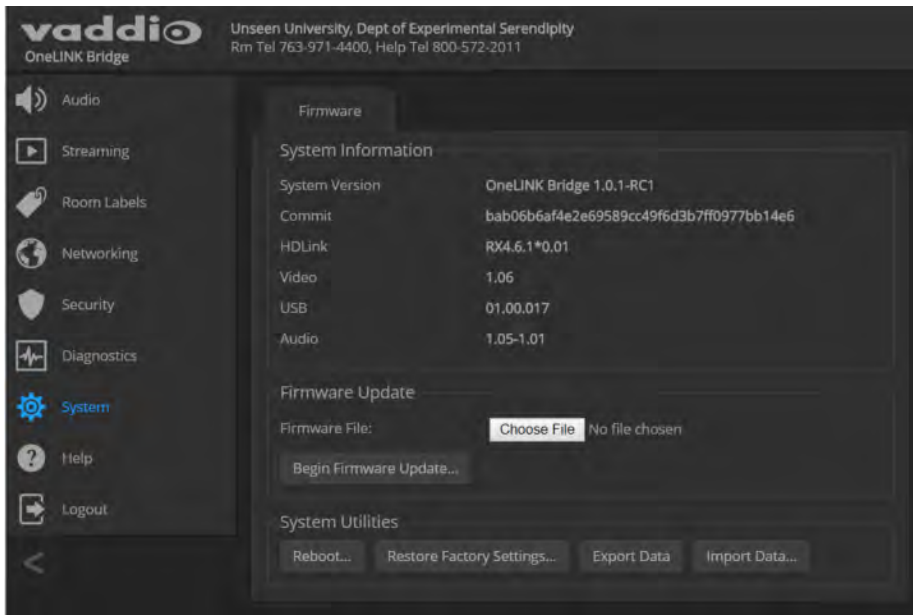
Select Restore Factory Settings to return to the default configuration. Read the confirmation message before you select Continue or Cancel.



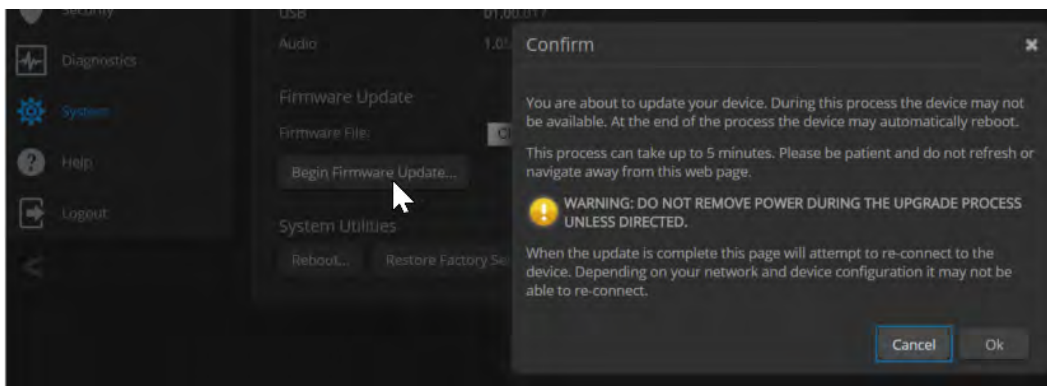
Starting a Firmware Update

SYSTEM PAGE

1. Be sure you have downloaded the appropriate update file to your computer.
2. Select Choose File, browse to the firmware update file that you downloaded, and select it. The filename ends with .p7m. The System page then displays the filename beside the Choose File button.



3. Select Begin Firmware Update.
4. READ the information in the Confirm dialog box and be sure you understand it. It's boring, but it could save you a lot of time and aggravation.

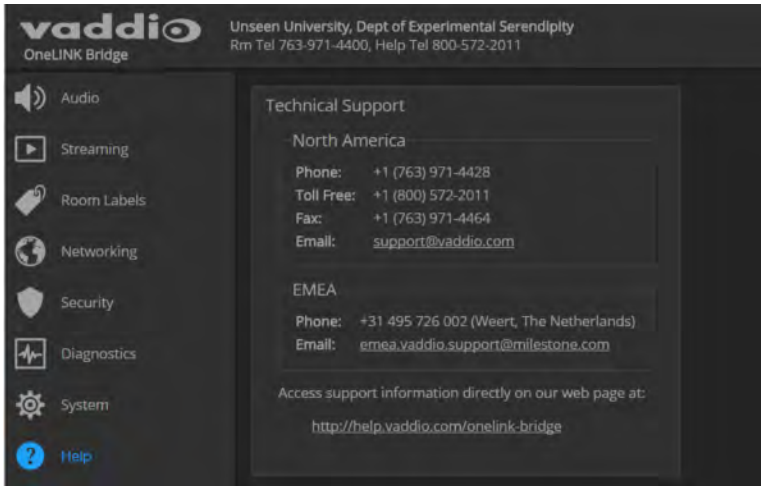


5. When you are ready to start the update, select Continue.
6. If the update process presents warnings or error messages, read them carefully.
7. Contact Vaddio technical support if you encounter any problems with the update.

Contacting Vaddio Technical Support and Viewing Diagnostics

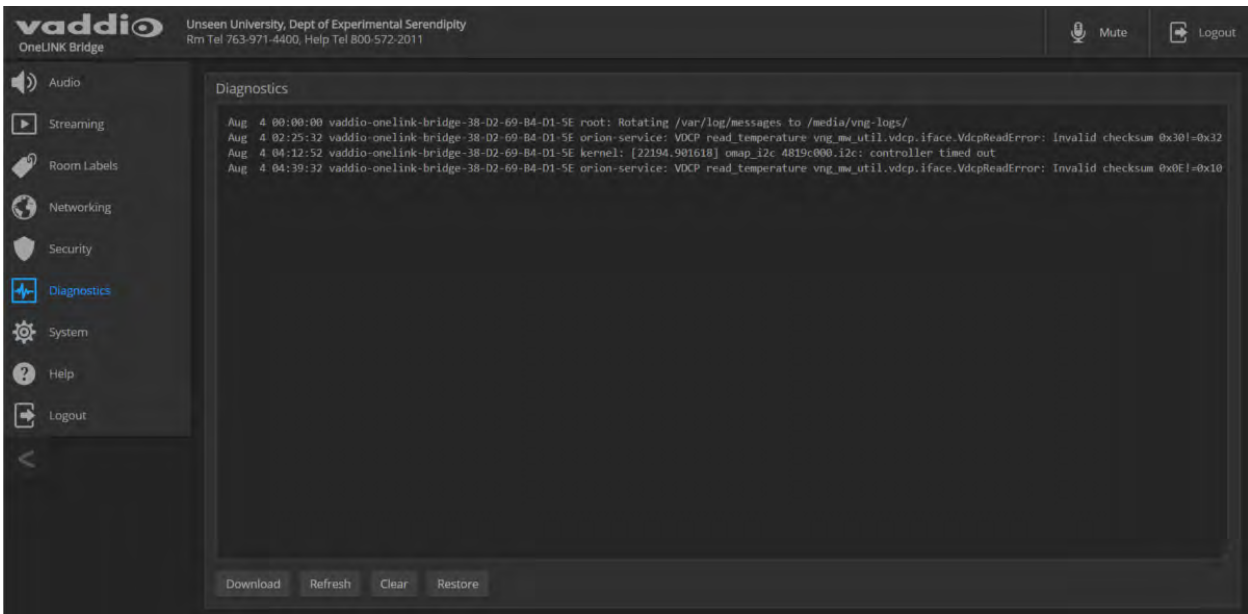
HELP PAGE, DIAGNOSTICS PAGE

If you encounter an issue that you can't resolve using your superior troubleshooting skills (and perhaps the [Troubleshooting](#) section of this guide), go to the Help page. This page provides Vaddio Technical Support contact information.



Your Vaddio technical support representative may ask you to download and email the log file available from the Diagnostics page.

The information on this page does not necessarily indicate errors or problems. Most of it is a log of code execution that can be helpful later if technical support or engineering staff need to research an issue.




Troubleshooting

When the Vaddio camera connected to the OneLINK device doesn't behave as you expect, check the color of the camera's indicator light before you do anything else.

- Purple – booting or in standby (low power) mode.
- Blue – normal operation.
- Blinking blue – the camera has received a valid IR command.
- Red – Tally function; the camera is on-air.
- Blinking red – fault condition.
- Yellow – firmware update in progress.
- Off – no power to the camera.

Now check the OneLINK device's web interface for error messages. With HDBaseT technologies, the EZIM (if one is used) tends to run warm, which is normal. If the system detects that the temperature is too high, a temperature fault message will appear at the top of the web interface page.

If neither of these reveal the problem, use this table to determine whether it's time to call Vaddio Technical Support.

What is it doing?	Possible causes	Check and correct
The camera is not receiving power. 	The camera is not connected to the EZIM (if an EZIM is used).	Plug the EZIM into the camera.
	The OneLINK device's power pack is not plugged in to main power, or the EZIM (if one is used) is not connected to the main OneLINK unit.	Plug the power pack into a wall outlet, or connect the EZIM to its OneLINK base unit.
	At least one of the cables is bad.	Replace the bad cable.
	The wall outlet is not active. (Check by finding out if it powers something else, such as a laptop or phone charger.)	Plug the OneLINK power pack into a different outlet.
	"He's dead, Jim."	Contact your reseller or Vaddio Technical Support.
The camera is on, but its web interface is not available.	At least one Ethernet cable is not connected.	Make sure all cables are connected.
	One of the Ethernet cables is bad.	Replace the bad cable.
	The camera is not using the IP address you browsed to.	Vaddio cameras: Press the Data Screen button on the remote to see the camera's IP address.
Comm errors / cannot discover camera	Ethernet or RS-232 cable connected to the wrong port at one end	Check the cables from the EZIM to the camera.
	The camera is not compatible with the OneLINK device.	Be sure you are using your OneLINK device with a compatible camera.
The camera is on but not transmitting video.	Possible cable length issue	Check the HDMI output from the camera by connecting a display directly to it. If video is good using a relatively short cable directly to the

What is it doing?	Possible causes	Check and correct
		display, then a better grade of cable (Cat-6 or Cat-7) may correct the problem.
Video drops out during PTZ movements.	The camera is not getting adequate power.	Check how the camera behaves when it and the attached EZIM are connected to the main interface with a short (6 to 10 ft/ 2 to 3 m) cable. If the camera performs properly, then the problem is the length of the cable from the main interface to the EZIM. A better grade of cable (Cat-6 or Cat-7) may correct the problem.
Video and audio don't match up – speech is audible before the person on the far end appears to start speaking.	The audio signal is arriving before the video signal, which is normal but not desirable.	For the affected audio outputs (Line Out, HDMI Out, or USB Record), enable Delay and enter a value in milliseconds.
When connected to a conferencing codec: Far-end audio drops out periodically, and the issue may intensify.	Echo cancellation is enabled on both the codec and the OneLINK Bridge.	Disable echo cancellation on the OneLINK Bridge.
Audio feedback or echo that intensifies.	Echo cancellation is disabled.	If using the OneLINK Bridge with a conferencing codec, enable echo cancellation on the codec. Otherwise, enable echo cancellation on the OneLINK Bridge.
Polycom camera does not respond to the remote.	The OneLINK Bridge AV interface has no IR forwarding.	Point the remote at the conferencing codec.

Operation, Storage, and Care

For smears or smudges on the product, wipe with a clean, soft cloth. Use a lens cleaner on the lens. Do not use any abrasive chemicals.

Keep this device away from food and liquids.

Do not operate or store the device under any of the following conditions:

- Temperatures above 40°C (104°F) or below 0°C (32°F)
- High humidity, condensing or wet environments
- Inclement weather
- Severe vibration
- Lateral acceleration of more than 27G
- Dry environments with an excess of static discharge

Do not attempt to take this product apart. There are no user-serviceable components inside.

Compliance Statements and Declarations of Conformity

Statements are given separately for the OneLINK Bridge AV interface and the OneLINK HDMI EZCamera Interface Module (EZIM).

OneLINK Bridge AV Interface

Compliance testing was performed to the following regulations:

FCC Part 15 (15.107, 15.109), Subpart B	Class A
ICES-003, Issue 6, January 2016	Class A
EN 55024, 2010	Class A
EN 55032, 2012	Class A
EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013	Safety
KN24 2008 (CISPR 24: 1997 + A1: 2000 + A2: 2002)	Class A
EMC Directive 2014/30/EU	Class A

FCC Part 15 Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15, Subpart B, of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by Milestone AV Technologies can affect emission compliance and could void the user's authority to operate this equipment.



ICES-003 Compliance

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.



European Compliance

This product has been evaluated for Electromagnetic Compatibility under the EMC Directive for Emissions and Immunity and meets the requirements for a Class A digital device. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Standard(s) To Which Conformity Is Declared:



EMC Directive 2014/30/EU	
EN 55032: 2012	Multimedia Equipment Emissions Requirements
EN 55024: 2010	IT Immunity Characteristics
EN 61000-4-2 + Amendments A1, A2	Electrostatic Discharge
EN 61000-4-3 + A1	Radiated Immunity
EN 61000-4-4 + Corrigendum	Electrical Fast Transients
EN 61000-4-5	Surge Immunity
EN 61000-4-6	Conducted Immunity
EN 61000-4-8	Power Frequency Magnetic Field
EN 61000-4-11	Voltage Dips, Interrupts and Fluctuations
KN24 2008 (CISPR 24: 1997 + A1: 2000 + A2: 2002)	IT Immunity Characteristics
EN 61000-4-2	Electrostatic Discharge
EN 61000-4-3	Radiated Immunity
EN 61000-4-4	Electrical Fast Transients
EN 61000-4-5	Surge Immunity
EN 61000-4-6	Conducted Immunity
EN 61000-4-8	Power Frequency Magnetic Field
EN 61000-4-11	Voltage Dips, Interrupts and Fluctuations
Low Voltage Directive 2014/35/EU	
IEC 60950-1: 2005 (2nd Edition); Am 1: 2009 + Am 2: 2013	Safety
EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013	Safety
RoHS Directive 2011/65/EU	

OneLINK HDMI EZCamera Interface Module (EZIM)

Compliance testing was performed to the following regulations:

- FCC Part 15 (15.107, 15.109), Subpart B Class A
- ICES-003, Issue 4: 2004 Class A
- EN 55022A: 2006 + A1: 2007 Class A
- KN24 2008 (CISPR 24: 1997 + A1: 2000 + A2: 2002) Class A
- KN22 2008 (CISPR 22: 2006) Class A
- EMC Directive 2004/108/EC Class A
- EN 55024: A2: 2003 Class A
- EN 60950-1:2006+A11: 2009+A1: 2010+A12: 2011 Safety

FCC Part 15 Compliance



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15, Subpart B, of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by Vaddio can affect emission compliance and could void the user's authority to operate this equipment.

ICES-003 Compliance



This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Compliance



This product has been evaluated for Electromagnetic Compatibility under the EMC Directive for Emissions and Immunity and meets the requirements for a Class A digital device. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Standard(s) To Which Conformity Is Declared:

EMC Directive 2004/108/EC

EN 55022:2010 Conducted and Radiated Emissions

EN 55024: 1998 + Amendments A1: 2001 + A2: 2003 Immunity

- EN 61000-4-2: 1995 + Amendments A1: 1998 + A2: 2001 Electrostatic Discharge
- EN 61000-4-3: 2006 + A1: 2008 Radiated Immunity
- EN 61000-4-4: 2004 + Corrigendum 2006 Electrical Fast Transients
- EN 61000-4-5: 2006 Surge Immunity
- EN 61000-4-6: 2009 Conducted Immunity
- EN 61000-4-8: 2010 Power Frequency Magnetic Field
- EN 61000-4-11: 2004 Voltage Dips, Interrupts and Fluctuations

KN24 2008 (CISPR 24: 1997 + A1: 2000 + A2: 2002)IT Immunity Characteristics

- EN 61000-4-2 Electrostatic Discharge
- EN 61000-4-3 Radiated Immunity
- EN 61000-4-4 Electrical Fast Transients
- EN 61000-4-5 Surge Immunity
- EN 61000-4-6 Conducted Immunity
- EN 61000-4-8 Power Frequency Magnetic Field
- EN 61000-4-11 Voltage Dips, Interrupts and Fluctuations

IEC 60950-1:2005 (2nd Edition); Am 1:2009 Safety

EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011 Safety



Warranty Information

See Vaddio Warranty, Service and Return Policies posted on support.vaddio.com for complete details.

Hardware* warranty: Two (2) year limited warranty on all parts and labor for Vaddio manufactured products. Vaddio warrants its manufactured products against defects in materials and workmanship for a period of two years from the day of purchase, to the original purchaser, if Vaddio receives notice of such defects during the warranty. Vaddio, at its option, will repair or replace products that prove to be defective. Vaddio manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry standard practices.

Exclusions: The above warranty shall not apply to defects resulting from improper or inadequate maintenance by the customer, customers applied software or interfacing, unauthorized modifications or misuse, mishandling, operation outside the normal environmental specifications for the product, use of the incorrect power supply, modified power supply or improper site operation and maintenance. OEM and special order products manufactured by other companies are excluded and are covered by the manufacturer's warranty.

Vaddio Customer Service: Vaddio will test, repair, or replace the product or products without charge if the unit is under warranty. If the product is out of warranty, Vaddio will test then repair the product or products. The cost of parts and labor charge will be estimated by a technician and confirmed by the customer prior to repair. All components must be returned for testing as a complete unit. Vaddio will not accept responsibility for shipment after it has left the premises.

Vaddio Technical Support: Vaddio technicians will determine and discuss with the customer the criteria for repair costs and/or replacement. Vaddio Technical Support can be contacted by email at support@vaddio.com or by phone at one of the phone numbers listed on support.vaddio.com.

Return Material Authorization (RMA) number: Before returning a product for repair or replacement request an RMA from Vaddio's technical support. Provide the technician with a return phone number, e-mail address, shipping address, product serial numbers and original purchase order number. Describe the reason for repairs or returns as well as the date of purchase. See the General RMA Terms and Procedures section for more information. RMAs are valid for 30 days and will be issued to Vaddio dealers only. End users must return products through Vaddio dealers. Include the assigned RMA number in all correspondence with Vaddio. Write the assigned RMA number clearly on the shipping label of the box when returning the product. All products returned for credit are subject to a restocking charge without exception. Special order product are not returnable.

Voided warranty: The warranty does not apply if the original serial number has been removed or if the product has been disassembled or damaged through misuse, accident, modifications, use of incorrect power supply, use of a modified power supply or unauthorized repair.

Shipping and handling: Vaddio will not pay for inbound shipping transportation or insurance charges or accept any responsibility for laws and ordinances from inbound transit. Vaddio will pay for outbound shipping, transportation, and insurance charges for all items under warranty but will not assume responsibility for loss and/or damage by the outbound freight carrier. If the return shipment appears damaged, retain the original boxes and packing material for inspection by the carrier. Contact your carrier immediately.

Products not under warranty: Payment arrangements are required before outbound shipment for all out of warranty products.

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