VADDIO

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Installation Guide for the

OneLINK Bridge Express AV Interface

Overview

This guide covers the OneLINK™ Bridge Express AV Interface:
- 999-9595-070 – OneLINK Bridge Express, North America
- 999-9595-071 – OneLINK Bridge Express, Europe and UK
- 999-9595-079 – OneLINK Bridge Express, Australia and New Zealand

The OneLINK Bridge Express AV interface is also available as a component of several kits and camera systems.

What's in this Guide

This guide provides information about:
- The OneLINK device's physical features
- Installing the OneLINK device with Vaddio cameras
- Initial power-on

Features

- Compatible with Vaddio HDBaseT™ cameras and other compliant HDBaseT sources
- Simple, clutter-free camera installation – power, control, video, and streaming over one cable
- Extends camera installation distance up to 100 m (328 ft.) using Cat-6 cable
- Administrative control via web interface
- Passes web, Telnet, and RS-232 serial control to connected devices
- Converts any conference room to a BYOD environment, connecting professional AV equipment and delivering a USB 3.0 stream for soft-conferencing clients
- Simultaneous uncompressed USB 3.0 and HDMI 1.4b; passes IP stream if available from source
- Two balanced audio inputs, line level or mic level; two balanced audio outputs, line level
- Kits available for use with Polycom and Cisco codecs

A Quick Look at the OneLINK Device

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

Front Panel of the Receiver

- **USB** light – On when a USB stream is active.
- **Network** light – On when connected to the IP network.
- **Source** light – On when a video input is detected.
- **Display IP and MAC Address** button (illuminated blue) – Displays the OneLINK Bridge IP and MAC addresses as an overlay on all video outputs.
- **Power System Reset** button (illuminated red) – reboots the device. This does not affect the connected camera.

Connector Panel of the Receiver

From the left:
- **Power input jack** – Connect the supplied 48 VDC, 1.36 A power supply.
- **OneLINK interface port** – Connection to the HDBaseT camera: video, audio (if available), network connectivity including H.264 IP streaming from the camera (if available), RS-232 control, and 12 VDC camera power.
- **HDMI output** – Connection for a display.
- **USB 3.0** – Connect to a computer for uncompressed video output with PCM audio for conferencing applications.
- **Network port** – Web interface access, H.264 IP streaming (if available from the camera), and third-party IP control via Telnet API.
- **RS-232 port** – Connection for a camera controller or third-party control system.
- **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** – Connections for microphones or other audio inputs.

Installing the OneLINK Device

This section covers:
- Things to know before you start the installation
- Basic connection examples

Don't Void Your Warranty!

Caution
Use only the power supply included with this product. Using a different one will void the warranty, and could create unsafe operating conditions or damage the product.
Do not connect the OneLINK power supply to a Vaddio camera. It does not provide the correct voltage for Vaddio cameras, and will damage the camera and void the camera's warranty.

This product is for indoor use only. Do not install it outdoors or in a humid environment. Do not allow it to come into contact with any liquid. Do not install or operate this product if it has been dropped, damaged, or exposed to liquids. If any of these things happen, return it to Vaddio for safety and functional testing.

Note
Disassembling this product will void the warranty.

Cabling Notes

- Maximum cable distance between the OneLINK device and the camera is 328 ft (100 m) using Cat-6 or Cat-7 cable, or 230 ft (70 m) using Cat-5e cable.
- Cat-6 or Cat-7 cabling allows longer maximum cabling distance, and may provide better performance in noisier RF or EMF environments.
- We recommend shielded cabling if the cables will be coiled, run tightly with other cables, or routed near sources of electromagnetic interference such as power lines or fluorescent light fixtures. When in doubt, use shielded Cat-6 cable.

Caution
When making cables for Vaddio products, do not use pass-through RJ-45 connectors. If they are crimped incorrectly, they can damage the connectors on the product, cause intermittent connections, and degrade signal quality. Physical damage to the connectors will void your warranty.
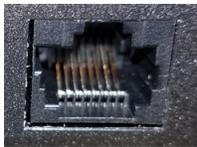
Intact
Contact fingers will make reliable contact with the cable connector

Damaged
Some contact fingers are bent and will NOT make reliable contact with the cable connector

We recommend using high-quality connectors and a high-quality crimping tool.

Pro Tip
To prevent tragic mishaps, label both ends of every cable.

RS-232 Connector Pin-Out

The OneLINK device passes signals from a third-party device to the connected camera.
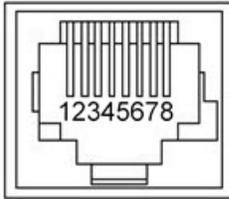
OneLINK Receiver - RS-232 Control Port

| Pin	Signal
1	(not used)
2	(not used)
3	(not used)
4	(not used)
5	(not used)
6	GND
7	RX (from TX of controller)
8	TX (to RX of controller)

Mounting the OneLINK Device

Rack and under-table mounting kits are available for the receiver. Follow the mounting instructions supplied with the kit.

About Installations Using Half-Recessed Ceiling Mounts

If the connected camera is mounted in an In-CEILING Half-Recessed Ceiling Mount for RoboSHOT® series cameras, and the mount's IR receiver will be used to forward commands to the camera, this must be powered separately using Power Extension Module 998-2225-051. Cameras powered by OneLINK devices cannot supply power to the mount's IR receiver.

This diagram shows a RoboFLIP 30 HDBT camera. Other Vaddio HDBaseT cameras connect in the same way.
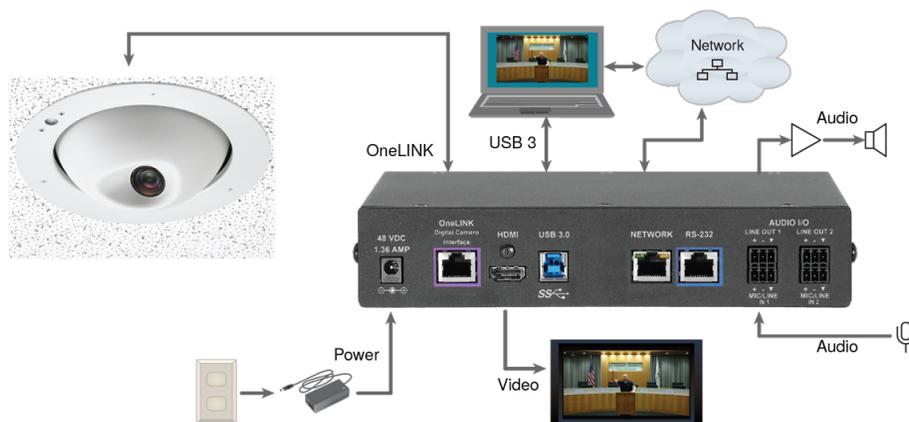
Powering Up the Equipment

Power up the connected equipment that is not powered by the OneLINK device (such as displays and third-party control devices), then connect power to the OneLINK device. The connected camera and the OneLINK device power up together.

Next Steps

The OneLINK device is now ready to configure and use. Refer to the **Complete Manual for the OneLINK Bridge Express AV Interface** for details.

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 104°F (40°F) or below 32°F (0°C)
- High humidity, condensing or wet environments
- Inclement weather
- Severe vibration
- In or on top of a pizza oven
- Dry environments with an excess of static discharge

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