

Installation Guide for the AV Bridge Nano Audio Video Encoder

Overview

This guide provides information about the AV Bridge Nano audio video encoder, 999-82600-000 (worldwide)

About this guide

This guide covers:

- Tips for a successful installation
- Connection diagram
- Equipment power-on

Features

- Bridge any HDMI video and audio source into soft conferencing applications
- Reliable streaming and video capture scenarios over USB or RTSP/RTMP
- Select USB 3.0 or IP streaming (configurable as RTSP or RTMP)
- IP streaming resolution up to 1080p/30 and USB streaming resolution up to 1080p/60
- HDMI pass-through for ease of integration with Cisco codecs
- Stereo unbalanced line in and line out
- Audio mixer



A quick look at the AV Bridge Nano

Physical features of the device – controls, status lights, and connectors.

Front panel



HDMI In connector – Up to 1080p/60 from the connected camera

Line In and **Line Out** jacks – Line-level stereo input and output (unbalanced)

Stream button – Toggles the IP stream on or off. Illuminated when the IP stream is active. Has no effect when USB streaming is selected.

Power light – Illuminated when power is on.

Back panel



12 V 1.0 Amp connector – Power connection; use only the power supply shipped with this product.

Ethernet connector – Control and IP streaming.

HDMI Loop Out connector – Pass-through for HDMI input video; audio from audio inputs as configured in the audio matrix (may include HDMI, USB playback, audio line-in).

USB 3.0 connector – uncompressed video up to 1080p/60, compressed video up to 1080p/30. Stereo audio from USB, HDMI, and analog audio inputs

IP button – Press to display the device's IP address in the stream and video output, or to clear the information display.

Installation

This section covers how to install and connect the product. It also provides safety information and other guidance related to installing the product.

Don't void your warranty!

Caution

This product is for indoor use. Do not install it outdoors or in a humid environment without the appropriate protective enclosure. 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.

Cabling notes

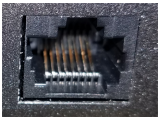
Best practices for making cables:

- Use Cat-5e or better cable. We recommend shielded cabling if the cables will be coiled, run tightly with other cables, or placed close to sources of electromagnetic interference such as power lines or fluorescent light fixtures.
- Use high-quality standard RJ-45 connectors; 568B termination recommended.
- Use a high-quality crimping tool.

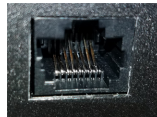


Caution

When building cables for Vaddio products, do not use pass-through RJ-45 connectors. If they are crimped incorrectly, they can cause intermittent connections and degrade signal quality. Incorrectly crimped pass-through connectors can also damage the connectors on the product, which will void your warranty.



Intact – will make reliable contact with the cable connector



Damaged – Bent contact fingers will NOT make reliable contact with the cable connector

Caution

Check your cables. Connecting a cable to the wrong port or using the wrong pin-out can result in equipment damage and will void the warranty.

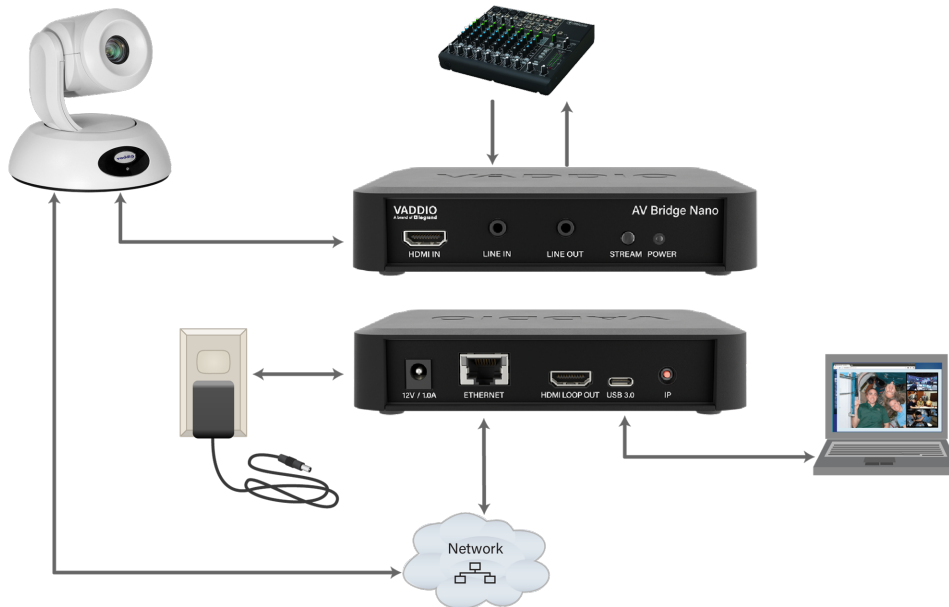


Pro tip

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

Basic connections

This diagram shows a basic installation. The device bridges an existing room AV system into a streaming or conferencing application.



Powering up

Power up the AV Bridge Nano and the connected equipment at the same time, or power up the connected equipment before you power up the AV Bridge Nano.

Next steps

The AV Bridge Nano is now ready to configure. Until the product is fully configured, its full functionality is not available. This information is available in the **Complete Manual for the AV Bridge Nano Audio Video Encoder**.

Operation, storage, and care

For smears or smudges on the product, wipe with a clean, soft cloth. 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
- Corrosive atmosphere
- Dry environments with an excess of static discharge
- As an object of a cat's desire to knock things from elevated surfaces

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



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