

## Installation Guide for the EasyIP Dock

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This guide contains only the information required to install this product. Refer to the **Complete Manual for EasyIP Dock AV-over-IP Switching USB Endpoint and Encoder** for information on configuring and using this product.

### Overview

This guide provides information about:

- **EasyIP Dock** AV-over-IP Switching USB Endpoint and Encoder, 999-60430-000 (worldwide)



### What's in this Guide

This guide covers:

- The EasyIP Ecosystem
- Product Features
- Tips for a successful installation
- Information on connecting the system components
- System power-on

### The EasyIP Ecosystem

Vaddio® EasyIP is an AV-over-IP solution designed for flexible and approachable conferencing, extension, and presentation systems. EasyIP products are designed to be used together, and have limited or no compatibility with other types of products.

- EasyIP cameras deliver video in Vaddio's proprietary EasyIP format.
- An EasyIP host device (EasyIP Decoder, EasyIP Mixer, or EasyIP Dock) is required to convert the cameras' output signal to a USB stream.
- Other EasyIP receivers (such as EasyIP PCC or EasyIP Tx/Rx units in Rx Mode) can take in EasyIP streams and convert to other outputs.
- Only paired EasyIP cameras can be controlled by the EasyIP host device.
- EasyIP host devices automatically detect EasyIP cameras and EasyIP Tx/Rx units in Tx Mode on its own subnet for easy pairing.
- Cameras are not required to be on the same subnet as the device that manages them.
- EasyIP products require PoE+ power. Typically the EasyIP system is powered by a PoE+ switch.

## EasyIP Dock Features

- Uncompressed USB 3.0 streaming
- Streaming video resolutions up to 1080p/60
- Full-duplex audio streaming
- Balanced line-level audio input and output
- Video switcher and audio mixer with acoustic echo cancellation (AEC)
- Support for microphones and speakers with Dante® connectivity
- Converts HDMI input to EasyIP output for easy extension to display when paired with EasyIP Tx/Rx
- HDMI audio and video loop out for local display
- Universal Video Class (UVC) and Universal Audio Class (UAC) drivers supported in Windows®, macOS®, and Linux operating systems, compatible with most UC conferencing applications
- Integration-ready Telnet control
- Pairs with up to four EasyIP video sources (cameras, Tx/Rx units) on your network to provide control and manage streaming
- Enterprise-class IT administrative capabilities with full web controls for remote management

## Unpacking EasyIP Dock

Make sure you received all the items you expected.



The box should contain these items:

- EasyIP Dock
- 6 ft (1.8 m) USB cable, type A to B
- 6 ft (1.8 m) HDMI cable, black
- 3 ft (0.9 m) cat-5 cable, black
- 2 qty 3-position phoenix-style connectors
- Mounting Brackets for Vaddio Desktop Enclosure

## A Quick Look at the EasyIP Dock

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

### Front panel



- **Status light** – Multicolor LED shows device status.
  - Purple – Booting up/initializing
  - Blue – Normal operation
  - Blinking green – Identify Mode active
  - Blinking Red – Video is muted
  - Yellow – Firmware update in progress
  - Blinking Yellow – Factory Reset Mode active

### Side panel



- **Kensington lock** – Keep your device from adventuring away into the wide, wonderful world...

## Back panel



From left to right:

- **NETWORK PoE+** (RJ-45 connector) – Power, control via web interface, and Dante audio. Connect to a powered port on a PoE+ switch.
- **PWR light** – Illuminated when the device has power or blinks during discovery mode.
- **USB 3.0** (USB Type B connector) – Connect to a computer for use with soft conferencing applications. Provides uncompressed USB 3.0 video and bi-directional audio.
- **LOOP THRU** (HDMI connector) – Looped output of the HDMI input signal.
- **HDMI IN** (HDMI connector) – Converts non-DHCP HDMI signals to EasyIP audio/video source.
- **IP button** – Toggles the IP address display over video outputs. Press and hold while applying power to perform physical factory reset. Feels satisfying to press, very clicky.
- **Audio IN** – Balanced Line-level audio input.
- **Audio OUT** – Balanced Line-level audio output, far-end audio from conferencing application or as configured in the audio matrix.

## Installation and connections

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.*

### Before you start

Prepare for a successful installation:

- Be sure you can identify all cables correctly.
- If you make cables for this installation, check them for continuity.
- Talk to the network administrator. If installing the device in a non-DHCP network (one that does not automatically assign IP addresses), you will need to configure the device with a static IP address as directed by the network administrator.

### Cabling notes

#### Caution

*Do not use pass-through RJ-45 connectors when making cables for this product. Poorly crimped connectors of this type can cause intermittent connections and degraded signal quality. They can also damage the connectors on the product, which will void your warranty*



**Intact** – will make reliable contact with cable connector



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

When making category cables for this product, use Cat-5e or better cable. We recommend using high-quality connectors and a high-quality crimping tool.

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.

#### 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

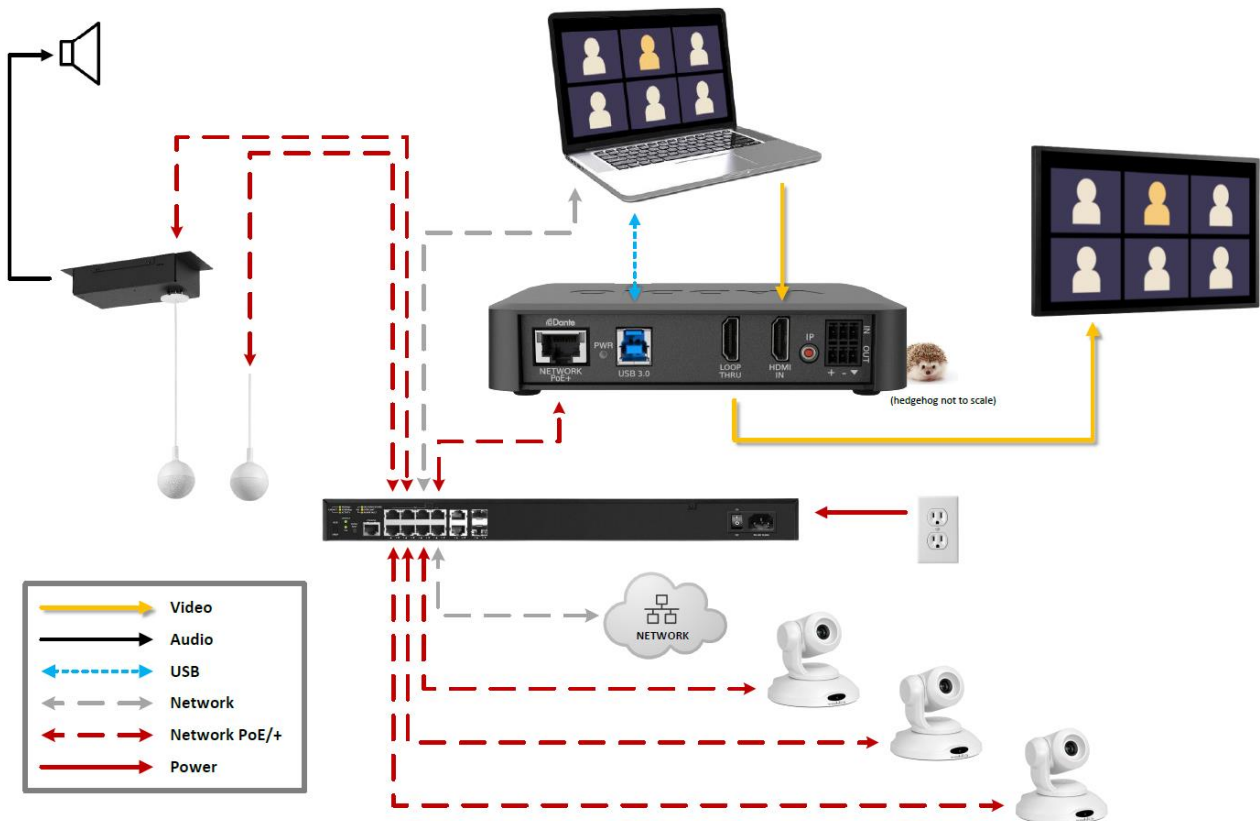
*Label all cables at both ends.*

## Basic connections

An example of an EasyIP deployment using the EasyIP Dock. In this setup, the EasyIP Dock manages up to 4 EasyIP video sources (in this case, 3 EasyIP cameras). A computer connected to the system provides USB connectivity for conferencing or recording.

This system also provides audio with acoustic echo cancellation. An EasyIP CeilingMIC/AMP D provides Dante networked audio microphone input, and an amplified output that can support up to 4 8Ohm speakers wired in series/parallel. Additional Dante mics or CeilingMIC/AMP D units can be connected for additional coverage. The HDMI loop-thru from the computer integrates the computer audio into the audio matrix, meaning that presentation audio can easily play from your room sound system even without an active conference.

A PoE+ switch provides power and network connectivity to the EasyIP products. If no PoE+ switch is used, a mid-span PoE+ power injector (sold separately) is required for each EasyIP device. Vaddio recommends making all connections while the PoE+ switch is turned off.



### Caution

Do not connect the PoE+ switch to the network without guidance from an on-site network specialist.

### Note

The EasyIP Dock is compatible with EasyIP video sources only (EasyIP Tx/Rx, EasyIP cameras). It does not detect or pair with other types of cameras.

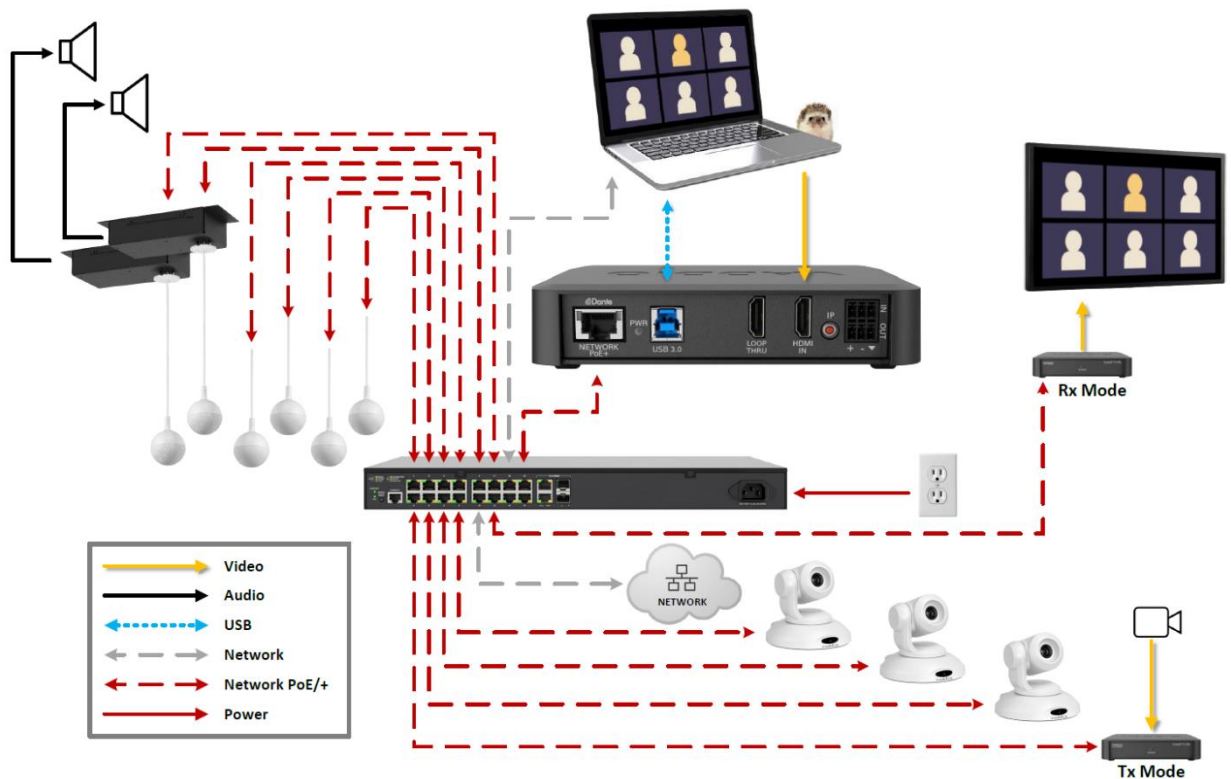
## Basic Connections - with EasyIP Tx/Rx

An example of an EasyIP deployment using the EasyIP Dock. In this setup, the EasyIP Dock manages up to 4 EasyIP video sources (in this case, 3 EasyIP cameras and one EasyIP Tx/Rx set to Tx Mode which converts an HDMI video source to EasyIP video and audio). A computer connected to the system provides USB connectivity for conferencing or recording.

This system also provides audio with acoustic echo cancellation. EasyIP CeilingMIC/AMP D units provide Dante networked audio microphone input, and an amplified output that can each support up to four 8 Ohm speakers wired in series/parallel. Additional Dante mics or CeilingMIC/AMP D units can be connected for additional coverage.

The HDMI input from the computer both integrates the computer audio into the audio matrix, and converts the signal into an EasyIP audio and video source that can connect over the network to one (or more) EasyIP Tx/Rx units set to Rx Mode. This Rx Mode unit then converts back to HDMI to connect to a display for easy video extension.

A PoE+ switch provides power and network connectivity to the EasyIP products. If no PoE+ switch is used, a mid-span PoE+ power injector (sold separately) is required for each EasyIP device.



### Caution

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### Note

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## Powering up the EasyIP System

Vaddio recommends making all connections while the PoE+ switch is turned off. To power the system, turn on the PoE+ switch

- The EasyIP Dock's status light turns blue when the device is ready, and the rear power light will illuminate green. The connected computer recognizes it as a USB peripheral.
- The EasyIP cameras initialize and move if they are powered from the same PoE+ switch. This will take a few seconds. When each camera's status light turns blue, the camera is ready to accept control information.
- The EasyIP Tx/Rx's front status light turns blue and the rear power light will illuminate green when the device is ready.

### Note

*If a camera has already been in use and is paired with the host device, its indicator light may change to red when it finishes booting. This happens if the camera is the selected video input and is using the pro A/V color scheme. Pro A/V is the default color scheme for EasyIP 20 cameras.*

## Next Steps

No video is available from the EasyIP system until it is configured. Refer to the Complete Manual for the EasyIP Dock for information on initial device set-up and pairing EasyIP video sources (EasyIP cameras, EasyIP Tx/Rx) to EasyIP destinations (EasyIP Decoder, EasyIP Mixer, EasyIP Dock, EasyIP PCC, and EasyIP Tx/Rx).

## 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 (you know — storms, very hot weather, and any other weather that makes you want to stay indoors and perhaps go back to bed)
- Severe vibration
- Corrosive atmosphere
- While attempting to out-ski an avalanche
- Dry environments with an excess of static discharge

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

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