

hovercam®

beamio® Pro



User Manual



www.hovercam.com/Beamio

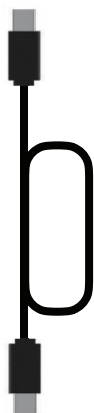
What's in the Box



Wireless Transceiver
for Laptop (TX)



Wireless Receiver for
Display (RX)



USB-C to USB-C Cable
*Connects to TX-2 to laptop, or RX to
display (power only)*



HDMI Cable
Connects to Display



USB 2.0 Cable



DC 5 V Power Adapter
Charges Camera

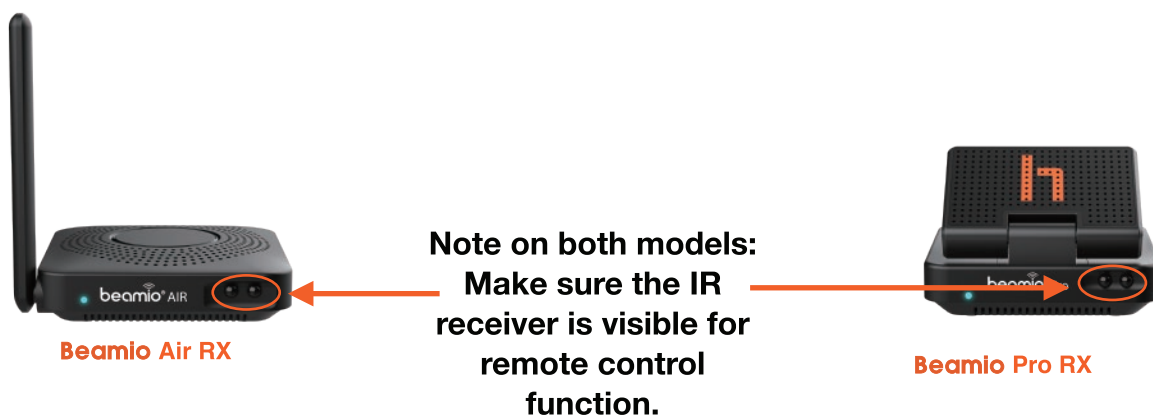
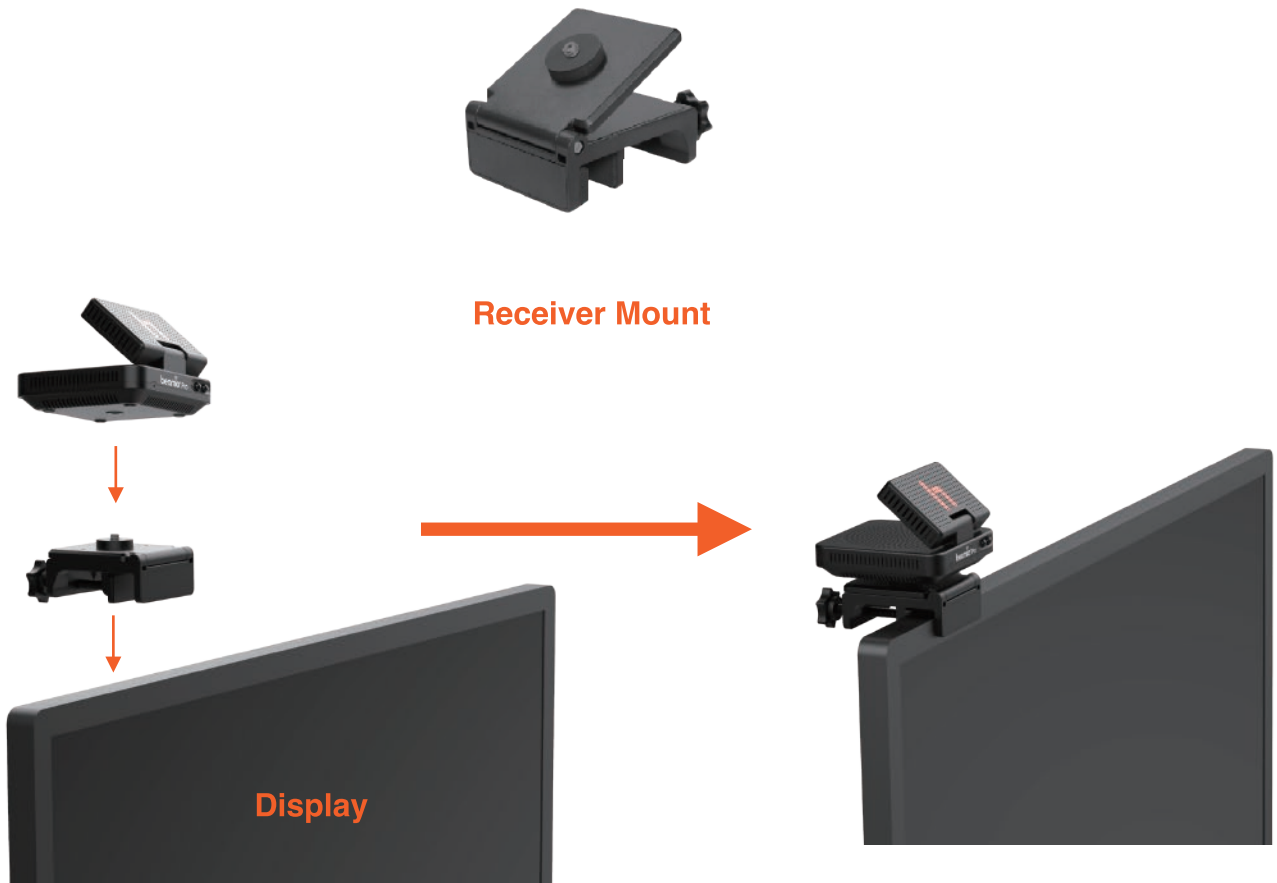


RX Display Mount
*Mounts RX to Top or Side
of Display Bezel*

Mounting the Display Receiver (RX)

Mounting the Display Receiver (RX) (If Using Interactive Panel or TV)

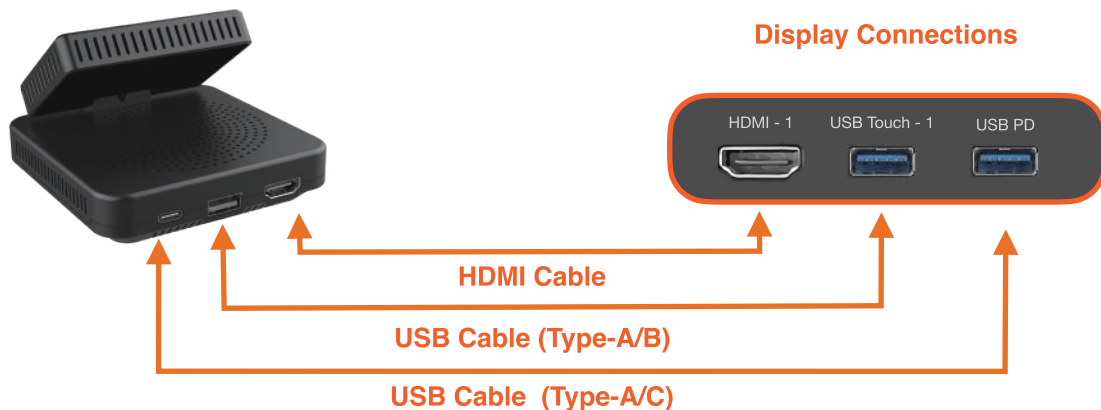
- Use the included mounting bracket to attach RX high on or near your display.
- For **Beamio Pro**: RX must be clearly visible and angled toward TX. Rotate the RX antenna upward to face the camera's antenna.
- For **Beamio Air**: RX placement is more flexible, but higher mounting still improves reliability.
- For best possible connection, do not hide the receiver behind the panel — the remote control still needs line of sight with the Receiver (on both Beamio Pro and Air models).



Connecting the Display Receiver (RX)

1. **Connect HDMI:** Connect the RX to your display via the HDMI cable
2. **Connect USB Touch** (optional): If you have a compatible touch display, connect the RX's center USB-A port to the display's USB-Touch port. Some touch display's touch ports are Type-A connections while others are Type-B. We have included a USB Type-A-to-B cable for Type-B touch ports. Please connect to the touch port that coincides with the selected HDMI port (example, if you are using HDMI port #2, connect to USB touch port #2 - if available)
3. **Connect Power:** Provide power to RX via USB-C from the display's USB port or wall adapter (not included). Note: The Receiver (Rx) **power requirement** is **5 V, 2 A**. Not all USB ports provide this minimum power requirement. If using a USB port from your display to power the receiver, please ensure it meets this requirement. The TX's indicator light should flash blue signifying that power is connected.

Wireless Receiver (RX)



4. Power on your display and set the display input to the HDMI input you connected the Receiver to.
5. Power on the Receiver with the included remote, and the receiver will automatically begin searching for the Transceiver (TX-1) and Beamio wireless document camera (TX-2) to establish a connection indicated by the flashing blue connection status light on the front of the Receiver.
 - Flashing = searching for RX
 - Solid = connected



Connecting the Laptop Transceiver (TX1)

The laptop Transceiver is designed to 1) cast your laptop's screen to any HDMI display that the Receiver (RX) is connected to, 2) act as a receiver for the wireless Beamio document camera's USB UVC image, and 3) act as a receiver for an interactive display's USB touch input to control the laptop (if connected to a display that supports USB touch).

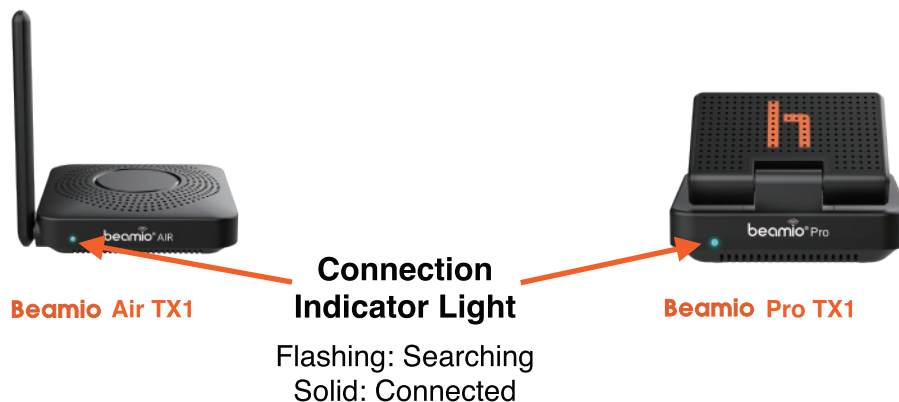
Connect the Transceiver (TX2) to Computer

1. With the laptop on, plug the Transceiver (TX2) into a USB-C port that supports **DisplayPort over USB-C** using the included USB-C cable.
2. The Transceiver will automatically power on and begin searching for the Display Receiver (RX) and Beamio wireless document camera (TX-2) to establish a connection indicated by the flashing blue connection status light.
 - Flashing = searching for RX
 - Solid = connected



Note: Make sure the laptop + Transceiver are within connection range of the Display Receiver and/or Camera. Both Pro and Air systems have range limits, with the Pro requiring line-of-sight between TX, RX, and Camera. If you are using Pro, aim the Transmitter's antenna towards the Display Receiver and/or Camera's antenna for the strongest connection.

Once the indicator lights on both the Transceiver and Receiver are solid (indicating a successful connection), you should see your laptop's image on the display. If you don't, ensure your display is set to the correct HDMI input, and try cycling the display mode on the included remote to ensure Trio is set to display the laptop image (Full Screen, Split Screen, or PiP). Also, make sure your laptop is set to the desired display mode (extended vs. mirroring modes).



Specifications

WIRELESS		
Wireless Radio Frequency	Beamio Pro/Air: WiFi 6 / 802.11ax /5Ghz with up to 1.2 Gbps shared bandwidth	
Wireless Transmission Range	Beamio Pro/Air: Up to 300ft unobstructed	
Impact on Network Management	Not On Your Network - Near-Zero Impact ✓ Beamio Pro/Air: Isolated Network Segment ✓ USB or HDMI link serves as a fire gap ✓ Uses built-in OS-sanctioned generic drivers	✓ Leverages layers of system security for USB devices ✓ Closed loop network segments ✓ End-to-end encryption w/ unique key & factory-paired ✓ Running on powerful computing hardware ✓ Locked down devices with all unnecessary services removed
Impact on Network Security	Highest Level Security - near zero minimal attack surface - rated highly robust by AI (chatGPT and Grok); ✓ Completely separated from your network ✓ Zero interference with your network ✓ Signal isolated within room	✓ Beamio Air- share network frequency band but isolated network segments ✓ Closed loop peer-to-peer wifi link outside of your network
Scalability	Highly Flexible Casting Options ✓ Default configuration: 1x Beamio Pro/Air, 1x Receiver, 1x Laptop Tx Dock ✓ Expandable to: 1-6 Beamio Cameras, 1-10x Receivers, 1-24x Laptop Tx Docks (Will Require a Separate AP)	
COMPATIBILITY		
Device Compatibility	Connects without drivers, without Miracast to PC, Mac, ChromeBook, some tablets, and Android interactive flat panels via USB UVC and interactive flat panels, TV's, projectors, monitors, and other displays via HDMI	
OS Compatibility	Connects without drivers: Windows, MacOS, ChromeOS, Android, Any OS with USB support	
App Compatibility:	Connects without drivers: Windows Camera app, QuickTime, Interactive Whiteboard (if not blocking other cameras), Android Camera app Zoom, Team, Meet, WebEx, or any video conference app Any app accessing USB webcam	
Ease of Use	True Plug-n-Play: No drivers or Apps to install, Camera-Receiver paired in factory, Minimum workload for IT staff	
Stability and Driver Conflicts	Immune to any OS updates, driver conflicts, version upgrades, or even hardware changes	

All Specifications are Subject to Change Without Notice

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with **minimum distance 20cm** between the radiator and your body.