

# Infinium™

## BA CT1 Infinium Auracast™ Controller and Transmitter

### QUICK START GUIDE



### Setup Instructions

This Quick Start Guide provides the essential steps to set up your Infinium system, including connecting cables and configuring the BA C1 controller and BA T1 transmitter. For detailed instructions on maximizing the full potential of your Infinium system, refer to the Infinium User Manual (MAN 297), available on the Williams AV website.

### Installation Procedures

1. **Place or mount the controller** in a location appropriate to your needs, such as a server rack, lectern rack, etc.
2. **Position or mount the transmitter** centrally near the audience to ensure optimal Auracast audio transmission. Choose a location which is not obstructed by walls or panels that could obstruct the wireless signal. The transmitter may be placed flat on a table or mounted to a junction box on the wall or ceiling.
3. **Connect one end of a CAT5e or CAT6 cable to the transmitter.** The maximum length for a standard CAT5 or CAT6 cable is 328 feet or 100 meters; there is no minimum length requirement.
4. **Connect the other end of the CAT5e or CAT6 Ethernet cable to either the Dante/PoE port of the controller OR to a PoE-enabled network switch that is on the same network as the controller's Dante/PoE port.**
5. **Power on the controller.** It will take approximately 30 seconds to boot. During the startup, the display will show the INFINIUM logo followed by the controller's firmware version before reaching the Main screen.
6. **Verify the transmitter LED.** Once communication is established, the transmitter's LED will blink in a steady blue "heartbeat" pattern during setup, and will turn solid blue during normal operation.
7. **Audio Configuration.** It is recommended to configure the audio input settings in the menu before connecting any sources to the controller inputs. This helps prevent potential damage to the input circuitry. Configuration can be done via the controller's Front Panel Control Interface or through the Web Control Interface using a PC. *(For detailed instructions on all configuration options and features, refer to the Infinium User Manual [MAN 297].)*
  - a. Navigate the Audio menu to select the Audio Sources for Input 1 (Left) and/or Input 2 (Right).

- b. Input 1 options include XLR- ¼" (Combo Jack), Dante, Disabled, Terminal Block, or Test Tone. When the desired audio source is displayed, press the menu/select button to activate the selection.

**NOTE:** Mic Gain and Phantom Power are only available on Input 1.

8. **The transmitter will automatically connect to the controller**, and the system will become active. It will begin broadcasting once an audio signal is present.

**NOTE:** If Dante is one of the selected audio sources, use Dante Controller to subscribe the desired Dante source to the controller.

9. **Power off the controller.**

10. **Connect your audio source(s)** to the appropriate audio input(s) on the controller.

11. **Power on the controller.** The boot process takes approximately 30 seconds..

12. **[OPTIONAL]** Connect headphones to the ¼" **monitor** jack on the front of the controller to verify the audio source and confirm input settings.

13. **Use an Infinium receiver (BA R1) or any Aura-cast-compatible device** to select and listen to the desired broadcast channel. The transmitter uses the saved configuration to stream one or two audio channels by default: Infinium-XX1 and Infinium-XX2. You can rename these channels via the Web Control Interface.

## Adjust Settings Via a Web Browser

1. **Connect a network cable** from the controller's Ethernet (RJ-45) port labelled **Control** directly to either a PC or your local area network.  
**NOTE:** This port is dedicated to system management and does not carry audio signals.

2. **Open a web browser** on the computer that is

either directly connected or on the same local network as the controller's **Control** port.

3. **Enter the Control IP address** exactly as its displayed on the controller's front panel into the browser's address bar to access the Web Control interface.

4. The browser will open the controller's web page, displaying the Login screen. Enter the following default login credentials:

**Username:** admin

**Password:** admin

5. **The web browser will display the controller's Dashboard**, showing the current status of the controller and transmitter. Use the tabs on the left to navigate and configure settings

## Additional Notes

**Note 1: The transmitter is powered via PoE (Power over Ethernet).** The controller-to-transmitter connection supports digital audio, PoE and data communications over a single Ethernet cable.

### Note 2

- If using a network connection, ensure the Ethernet switch or router supplies PoE to the transmitter.
- If the transmitter is directly connected to the controller, the controller supplies the PoE.

**For full setup details, features, and warranty information, visit the Williams AV website**

to download the user manual, or scan the QR code to access the documentation page directly: <https://williamsav.com/documentation/>

