


# Airstream Bridge Setup Instructions

Airstream Bridge Setup Utility is a Mac OSX application available on the Apple app store that's used to configure the Airstream DMX Bridge over USB. In order to use this application your Airstream DMX Bridge must have firmware revision 3 or higher installed. You should also have a basic understanding of how to set up a network.

If you start the app without connecting to the Airstream Bridge it will appear similar to the screenshot below with a red bar across the bridge icon as shown here in the upper left indicating that it's not connected. Since it is not yet connected, the settings are blank as in this example.

The screenshot shows the 'Airstream Setup' application window. At the top left, there is a bridge icon with a red diagonal bar across it, indicating it is not connected. To its right is the text 'Firmware Rev. ?'. Below this is the 'Network Type' section with two radio buttons: 'AP Mode (Create a Network)' and 'Station Mode (Join a Network)'. The 'Network Settings' section contains fields for 'Network Name', 'Password', and 'Wi-Fi Channel (AP Mode)' (set to 1). There are also checkboxes for 'DHCP' and 'Hide Beacon (AP Mode)'. Fields for 'Static IP', 'Router', and 'Mask' are present but empty. On the right side, there are three sections: 'Wifly' with a 'Wifly enable' checkbox and a 'Wifly Channel' dropdown (set to 0); 'sACN' with an 'sACN enable' checkbox and a 'Universe (1-63999)' field; and 'Art-Net' with an 'Art-Net enable' checkbox, a 'Net (0-127)' field, and a 'Universe (0-255)' field. At the bottom right, there are three buttons: 'Defaults', 'Bootloader', and 'Reset'.

**Airstream Setup**

 Firmware Rev. ?

**Network Type**

☐ AP Mode (Create a Network)

☐ Station Mode (Join a Network)

**Network Settings**

**Network Name**

**Password**

☐ DHCP ☐ Hide Beacon (AP Mode)

**Static IP**

**Router**

**Mask**

**Wi-Fi Channel (AP Mode)**

1

**Wifly**

☐ Wifly enable

**Wifly Channel**

0

**sACN**

☐ sACN enable

**Universe (1-63999)**

**Art-Net**

☐ Art-Net enable

**Net (0-127)**

**Universe (0-255)**

Defaults

Bootloader

Reset

You will need a USB cable connection from your Mac to the bridge in order to view and configure the settings. The Airstream Bridge uses a USB mini connector so you will need a USB A to USB mini cable similar to the example below.



If your Mac only has USB C as do some Macbooks, you will also need a USB C to USB A female adapter similar to the example below. This will allow you to connect the USB mini cable to a USB C port on your Mac.



With the bridge power on and connected over USB to your Mac, the bridge icon will be green as in the example below showing that it's connected. As you can see the fields are now filled in with the current settings for the bridge including the bridge's firmware revision.

Firmware Rev. 66

Network Type

☒ AP Mode (Create a Network)

☐ Station Mode (Join a Network)

Network Settings

Network Name

ADJ Airstream DMX

Password

airstream

☒ DHCP

☐ Hide Beacon (AP Mode)

Static IP

192.168.1.1

Router

192.168.1.1

Mask

255.255.255.0

Wi-Fi Channel (AP Mode)

5

Wifly

☒ Wifly enable

Wifly Channel

1

sACN

☒ sACN enable

Universe (1-63999)

1

Art-Net

☐ Art-Net enable

Net (0-127)

0

Universe (0-255)

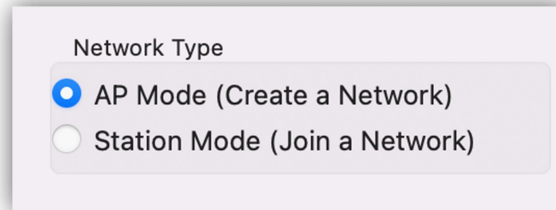
0

Defaults

Bootloader

Reset

The network type will determine the settings that can be changed when configuring the network. Selecting AP or “access point” mode will allow the bridge to make its own network and act as the router. Selecting station mode will allow the bridge to join an external router and network.

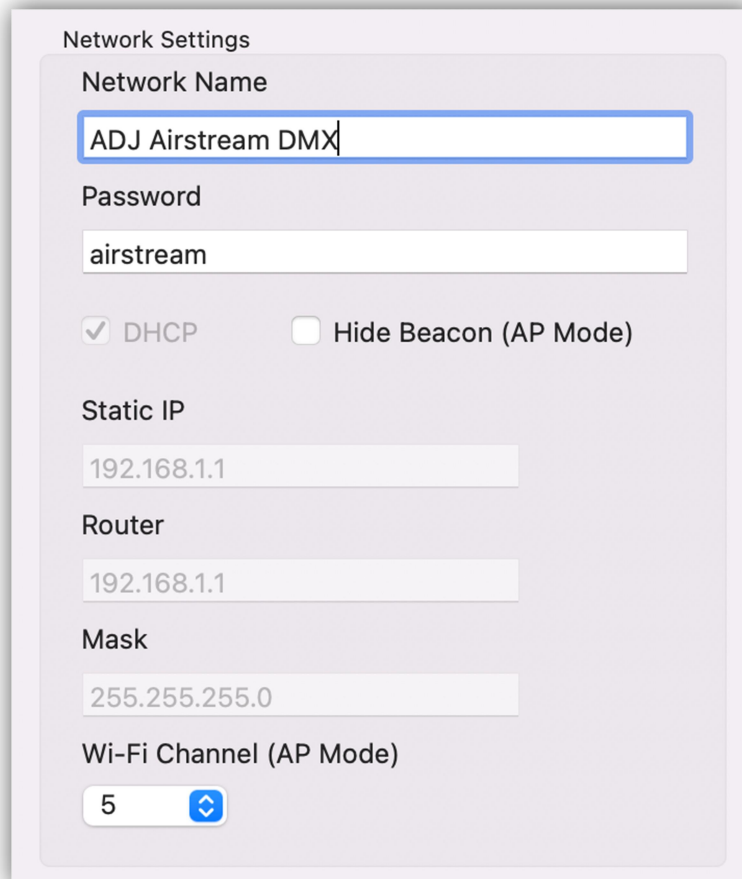


Network Type

☒ AP Mode (Create a Network)

☐ Station Mode (Join a Network)

In AP mode you must choose a name and password for your network. The default name and password is shown in the example below. Up to 32 letters, numbers and spaces are allowed for the name and 16 for the password. The password must contain at least 8 characters.



Network Settings

Network Name

ADJ Airstream DMX

Password

airstream

☒ DHCP ☐ Hide Beacon (AP Mode)

Static IP

192.168.1.1

Router

192.168.1.1

Mask

255.255.255.0

Wi-Fi Channel (AP Mode)

5

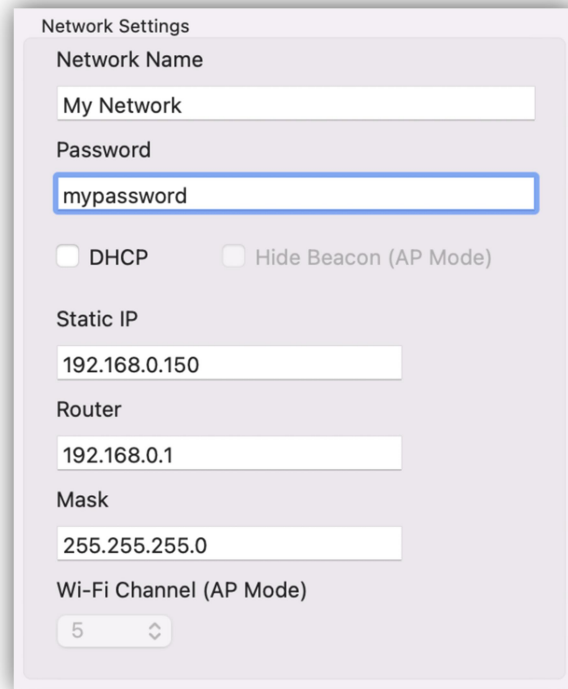
The other settings that you can modify while in AP mode are “Hide Beacon” and “Wi-Fi Channel”. The dimmed settings either don’t apply or are fixed.

If you check the “Hide Beacon” box, the bridge will not send out an advertising beacon so that it won’t appear in a network list on any devices in range. This is useful if you don’t want others to be aware of your lighting network. Note that your device must already know the network name and password in order to join automatically.

You can change the Wi-Fi channel used in AP mode in order to help find the least busy channel available in the vicinity. You need to avoid channels that are in use by other Wi-Fi networks as well as wireless DMX and wireless mics. In the U.S. Wi-Fi channels 1-11 are allowed. Setting the Wi-Fi channel can be very important as it may need to change at each venue depending on the number of other networks in the area and the channels they are using. You may need to try several channels before finding one that will allow you to connect your device to the bridge.

**Important Note: After changing the Wi-Fi channel you must reset or restart the bridge for the change to take effect.**

If station mode has been selected, you must enter the name and password of the network that you want to join. Up to 32 letters, numbers, spaces and the special characters !#\$%&()\*+./:;<=>?@^\_`{|}~ are allowed.

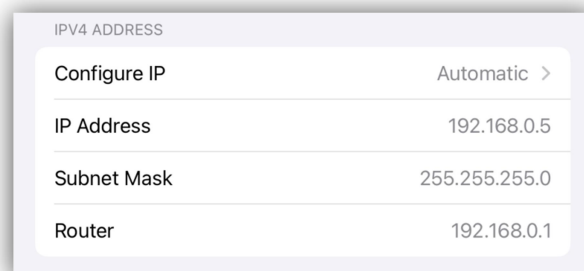


The image shows a 'Network Settings' dialog box with the following fields and options:

- Network Name:** Text field containing 'My Network'.
- Password:** Text field containing 'mypassword'.
- DHCP:** Unchecked checkbox.
- Hide Beacon (AP Mode):** Unchecked checkbox.
- Static IP:** Text field containing '192.168.0.150'.
- Router:** Text field containing '192.168.0.1'.
- Mask:** Text field containing '255.255.255.0'.
- Wi-Fi Channel (AP Mode):** Dropdown menu showing '5'.


You can manually enter the IP address that you want the bridge to use as shown in the example above or you can turn on DHCP so that the network router will assign an address for you. It's easier to let the router do this to avoid address conflicts on the network but in some cases you will want to control the address assigned to the bridge. If you manually assign the address, be sure to choose an address that is not already in use on the network. The Gateway and Subnet mask must also match the settings on the network's router. Wi-Fi Channel is already set by the router so can't be set here.

Note that a high number (150) was chosen for the last field in the static IP address to avoid conflicts with other devices on the network. The other fields were set to match the settings of the network to join. You can get those settings from your IOS device that's already connected to the network by tapping the detail button (!) next to the network name in settings.



IPv4 ADDRESS	
Configure IP	Automatic >
IP Address	192.168.0.5
Subnet Mask	255.255.255.0
Router	192.168.0.1

If you are using ADJ Wifly fixtures, you can enable Wifly here and also set the radio channel. The channel must match your ADJ Wifly fixture's channel. Try to use a channel that is at least several steps away from the Wi-Fi channel if you are running in AP mode. If you are only using the wired DMX512 output, turn Wifly off.



Wifly

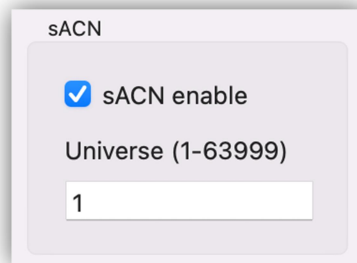
☒ Wifly enable

Wifly Channel

1

This panel shows the Wifly configuration. It has a title 'Wifly' and a checkbox 'Wifly enable' which is checked. Below it is a label 'Wifly Channel' and a dropdown menu showing the value '1'.

If you are using the streaming ACN protocol with your lighting software, enable it here and select the universe number. The bridge can only respond to one protocol at a time, either sACN or Art-Net. You can use sACN in AP mode or station mode. If running in AP mode, your wireless platform (tablet, phone, laptop) will have to join the bridge's network in order to send to this sACN node.



sACN

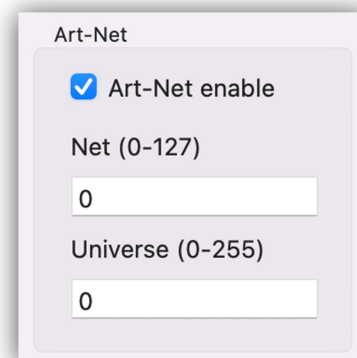
☒ sACN enable

Universe (1-63999)

1

This panel shows the sACN configuration. It has a title 'sACN' and a checkbox 'sACN enable' which is checked. Below it is a label 'Universe (1-63999)' and a text input field containing the value '1'.

If you are using Art-Net, enable it here and select the Net and Universe number. The bridge supports Art-Net 3 in unicast mode. You can use Art-Net in AP mode or station mode. If running in AP mode, your wireless platform will have to join the bridge network in order to connect to this node.



Art-Net

☒ Art-Net enable

Net (0-127)

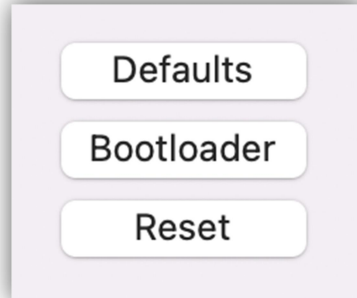
0

Universe (0-255)

0

This panel shows the Art-Net configuration. It has a title 'Art-Net' and a checkbox 'Art-Net enable' which is checked. Below it are two labels: 'Net (0-127)' with a text input field containing '0', and 'Universe (0-255)' with a text input field containing '0'.

There are three buttons in the lower right. The top button will restore the bridge to its default settings. The second button will put the bridge into bootloader mode to update the firmware and the bottom button simply resets the bridge, same as cycling the power.



## **Important Notes:**

When the bridge powers on in AP mode the LED will flash one time when the network is established. When powering on in station mode the LED will flash two times if it is able to find and join the network. If the bridge is unable to connect to the network, the bridge will revert back to AP mode and establish its own network.

Information and specifications in this document are subject to change without notice. ADJ Products and KMX Inc. assume no responsibility or liability for any errors or inaccuracies that may appear in this manual.

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