



**Pixel**Lights



**MANUAL**

# **CONTROLLER GUIDE**

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# STEP 1:

## CONNECTING TO YOUR CONTROLLER

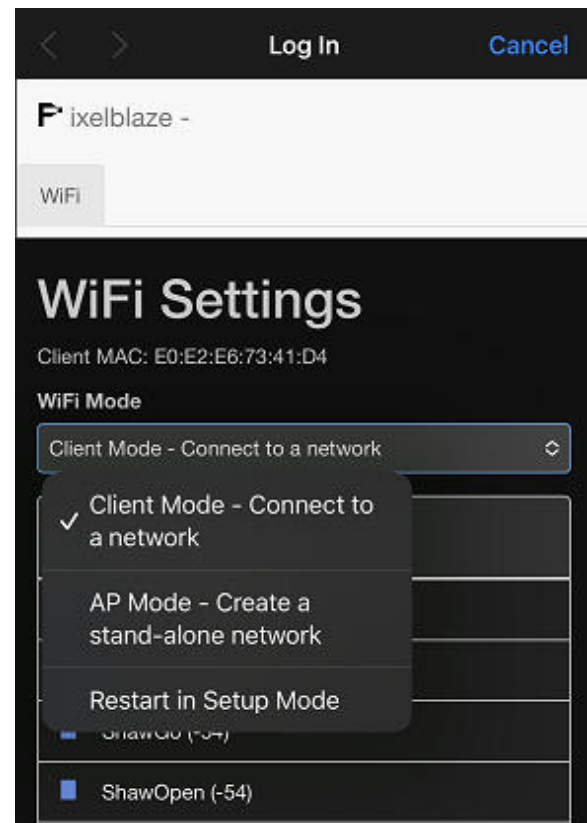
- Go to the WiFi settings on your device, and select **Pixelblaze\_xxxxxx**.
- After connecting to the controller, the WiFiManager screen will open automatically. If it does not, open your Internet browser and enter 192.168.4.1 in the address bar.
- Select which method you will use to access your controller:

### Method 1:

- "AP Mode" will set up the controller for direct connection. Not connected to your WiFi.
- Create your own name & password.

### Method 2:

- "Client Mode" will connect your controller to your WiFi network, and will be accessible through any device that is on your network ie: PC, Tablet or Mobile.



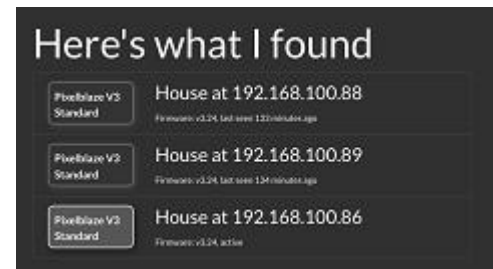
- Select your WiFi network, and enter your password.
- If your network isn't in the list, press "Scan" to refresh the list.
- Press "Save".
- The Controller will reset and connect to your network. Wait for the screen to clear on its own. It will display this notification while the WiFi settings are being updated:

Connected! You can now disconnect from this network and connect to the network you just configured.

Submit

- Now your controller is connected to your network, and you can access it from any device that is also logged in.
- To find your controller screen, open your web browser and go to this discovery page.
  - <http://discover.electromage.com>

- The discovery page will show any controller(s) that are currently connected to your network. Click the button, or you can type in the IP address displayed.



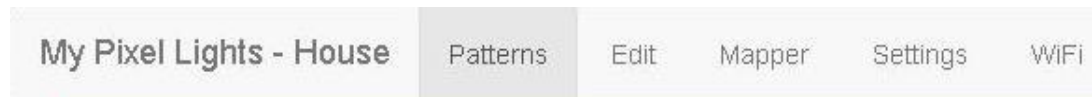
- You can either set the discovery page, or the IP address as a button/icon on your home screen. This gives you a shortcut to access your controller.

*\* Sometimes your router will change the IP addresses it has assigned and the address to your controller may change. If so, the discovery page will show the new address.*

# STEP 2:

## SETTING UP YOUR CONTROLLER

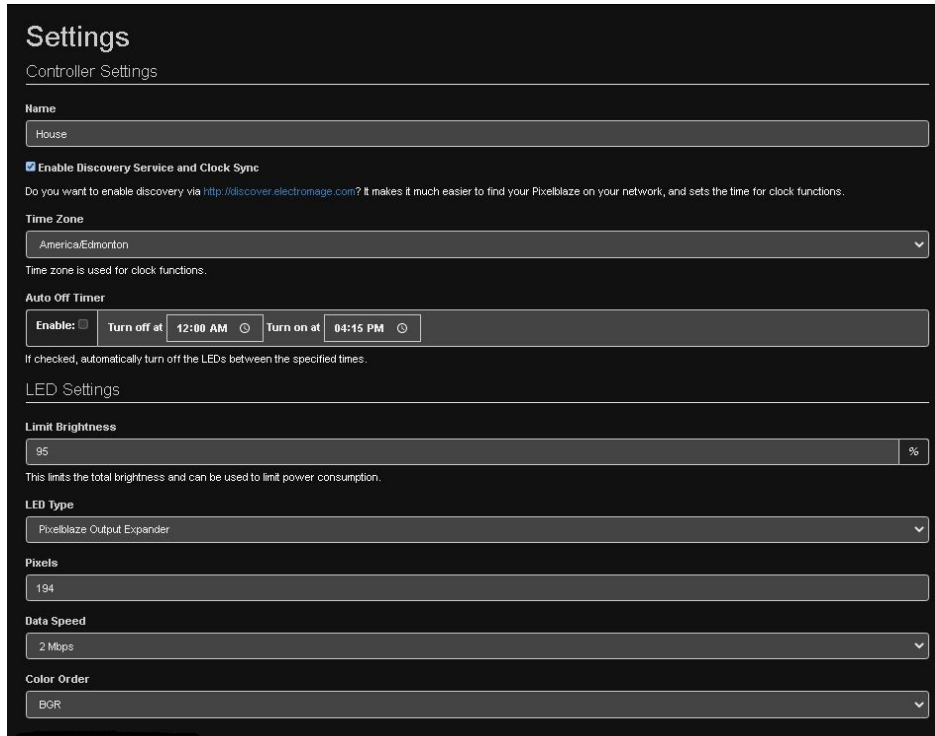
- Now that you are in your controller, at the top of your screen will be this Tab bar.



- **Patterns:** This tab shows the patterns you have saved on your controller.
- **Edit:** This tab is where you can edit or upload new patterns.
- **Mapper:** This tab is a more advanced feature, for future releases.
- **Settings:** This tab is where you adjust the settings for your installation.
- **Get Patterns:** This tab directs you to a website where you can download patterns made by other users, and upload patterns you create.
- **Brightness Slider:** This slider adjusts the brightness in real-time. **Status:** Displays if your controller is connected/disconnected.
- **Version(v):** This shows the current software version your controller has installed.

## Settings Tab

Adjust the specific settings for your controller here.



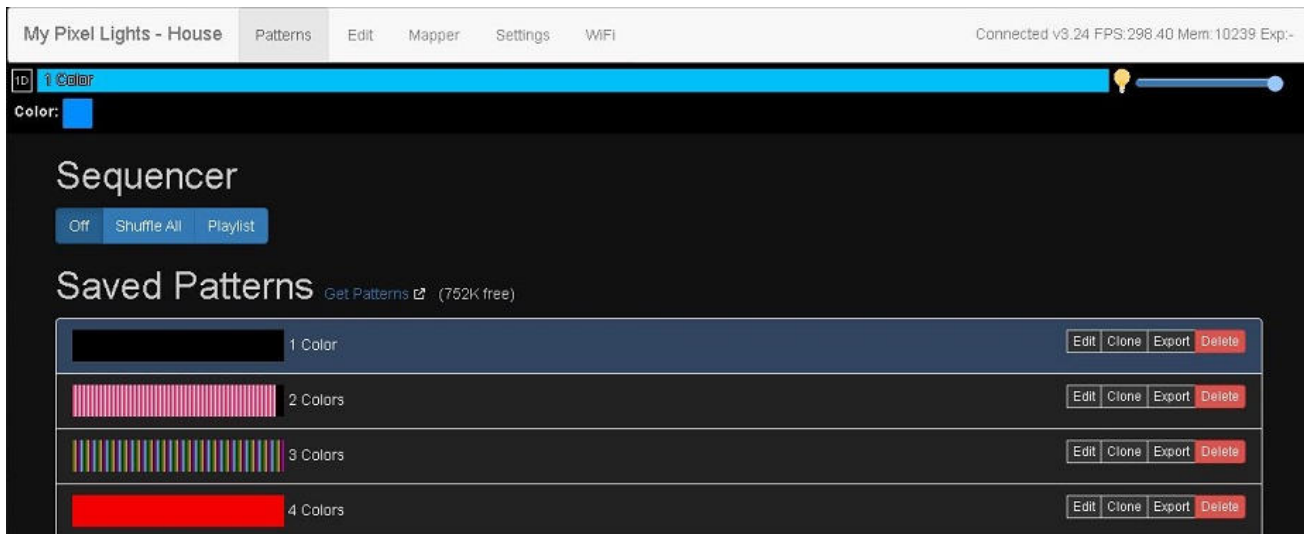
The screenshot shows the 'Settings' page for a PixelLights controller. The page is titled 'Settings' and 'Controller Settings'. It features several sections:

- Name:** A text input field containing 'House'.
- Enable Discovery Service and Clock Sync:** A checked checkbox. Below it is a link: 'Do you want to enable discovery via <http://discover.electromage.com/>? It makes it much easier to find your Pixelblaze on your network, and sets the time for clock functions.'
- Time Zone:** A dropdown menu set to 'America/Edmonton'. Below it is a note: 'Time zone is used for clock functions.'
- Auto Off Timer:** A section with an 'Enable:' checkbox (unchecked), a 'Turn off at' field set to '12:00 AM', and a 'Turn on at' field set to '04:15 PM'. Below this is a note: 'If checked, automatically turn off the LEDs between the specified times.'
- LED Settings:**
  - Limit Brightness:** A slider set to '95' with a '%' sign on the right. Below it is a note: 'This limits the total brightness and can be used to limit power consumption.'
  - LED Type:** A dropdown menu set to 'Pixelblaze Output Expander'.
  - Pixels:** A text input field containing '194'.
  - Data Speed:** A dropdown menu set to '2 Mbps'.
  - Color Order:** A dropdown menu set to 'BGR'.

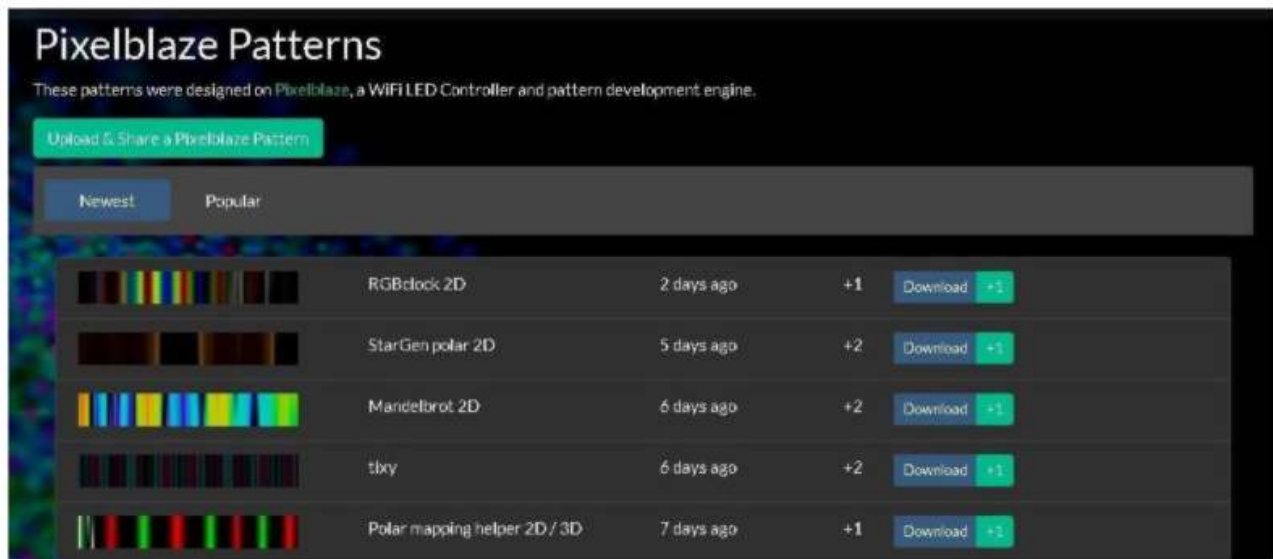
- **Pixels:** Enter the number of pixel lights you have installed here.
- **Data Speed:** Leave at this setting.
- **Color:** Select BGR.
- **Click on:** Enable to allow discovery page access.
- **Time Zone:** Select your time zone for timer control.
- **Click enable** to use the Timer.
- **Turn off at** = time the lights turn OFF.
- **Turn on at** = time the lights turn ON.
- **Click "Check for Update"** to see if there is an update available. If so, click "Perform Update and Restart". This will automatically update and restart the controller.

## Patterns Tab

Select from the list of saved patterns on your controller.



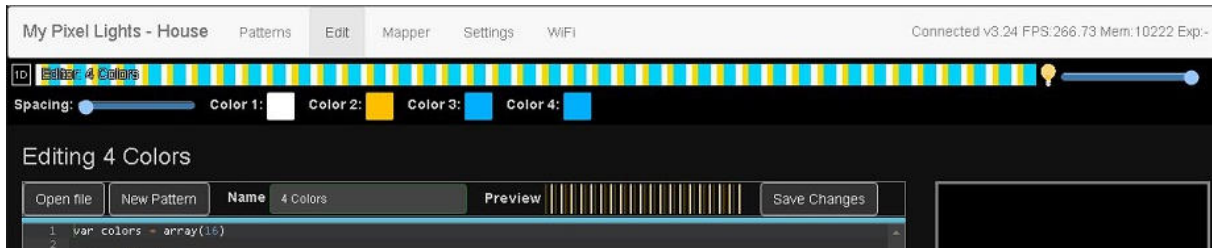
- **Get Patterns Tab:** Find new patterns to try on your controller.



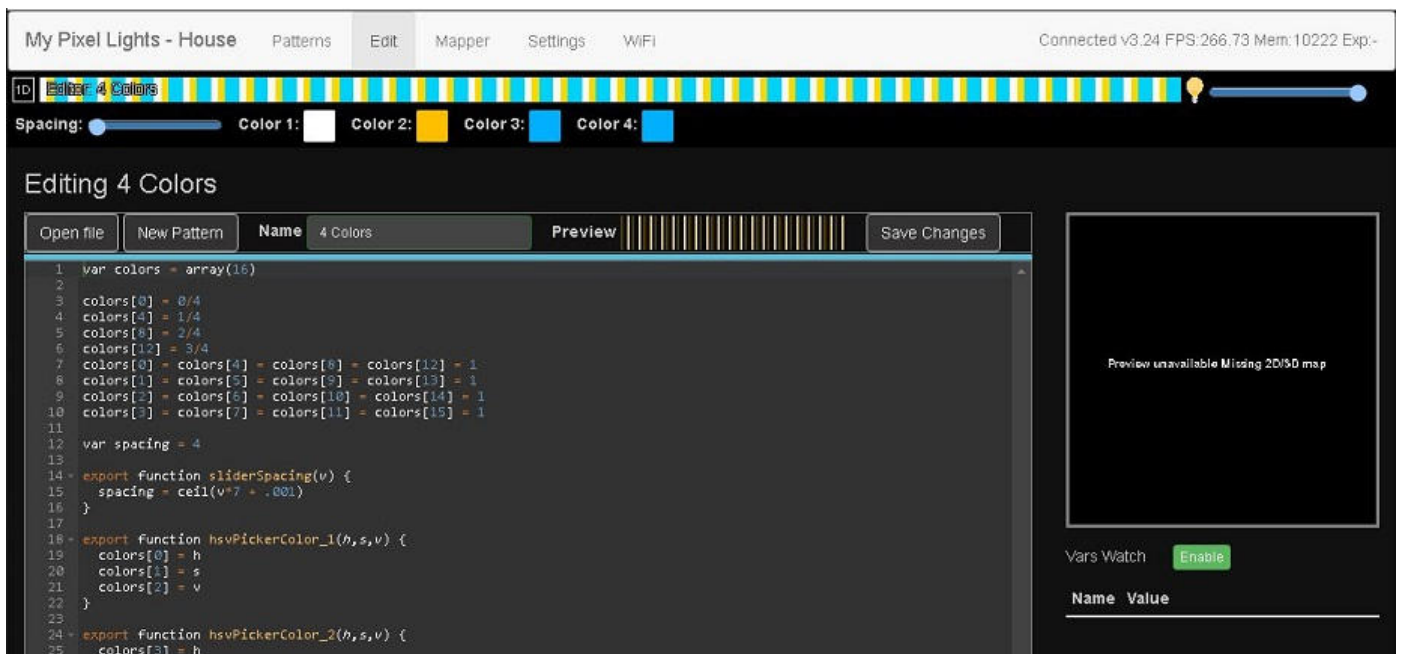
- Click "Download" on a pattern you would like to try. Save on your device, to upload in the "Edit" tab.



- **Edit Tab:** Edit or Upload new patterns.



- **Open File:** Click here to upload a new pattern. Select a file that you have downloaded from the Get Patterns page.
- **New Pattern:** Click here to code your own pattern.
- **Name:** Change or set the name of the pattern.
- **Save:** Click to save you new pattern or changes before exiting.



- The pattern code will display as in the picture above.

- **Settings Tab:** Configuring more than one Output/Channel.
- If your controller has more than one output, you will need to set the amount of outputs and pixel light quantities.

### LED Settings

**Limit Brightness**

This limits the total brightness and can be used to limit

**LED Type**

**Pixels**

**Data Speed**

- **LED Type:** Select "Output Expander".
- **Pixels:** This is the total amount of pixel lights.
- **Add Board:** Click the "Add Board" button.

### Output Expander Configuration

Board @ Address:  Remove

Channel	Type	Start Index <span style="color: green; font-weight: normal;">Auto</span>	Count	Options
0	WS2812	0	0	BGR
1	WS2812	0	80	BGR
2	WS2812	80	0	BGR
3	WS2812	80	80	BGR
4	WS2812	160	0	GRB
5	WS2812	160	0	BGR
6	WS2812	160	0	BGR
7	WS2812	160	0	BGR

- Make sure the settings are the same as the single channel configuration. ie: WS2812 & BGR.
- By default the channels will be 0-8, depending on how many you have. ie: If you have 2, it will be channels 1 & 3.
- \* This example shows how you would configure a 2 output controller with 80 pixel lights per channel.





# PixelLights



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