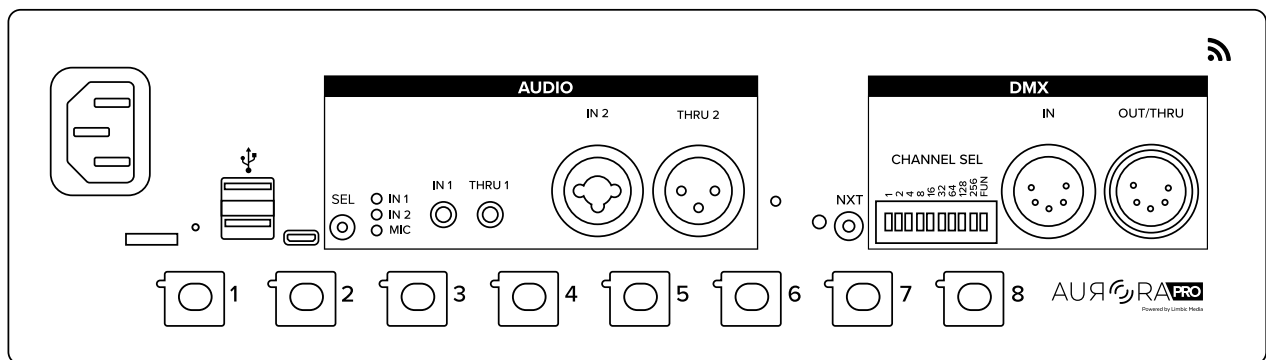


# AURARA PRO

Powered by Limbic Media



## USER MANUAL

AUR-R2-P8D-00-US  
AUR-R2-P8D-00-EU



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## INTRODUCTION

**Aurora Pro** is a standalone, plug-and-play sound reactive lighting controller. Aurora analyzes audio in real-time to generate dynamic lighting designs.

**Innovate in your industry.** Public spaces are seeking new ways to connect people in an increasingly digital world. Choose sophisticated interactive lighting that engages audiences and positions you as an innovator.

**Connect people.** Spark deeper connections with a “heads-up” social platform. Encourage audiences to create lasting memories with their voices, motions, and social media interactions. Increase visitor turnout and keep audiences coming back for more.

**Avoid unnecessary costs and steep learning curves.** Nobody should have to hire programming experts to create memorable experiences. Aurora creates interactive lighting out-of-the-box. Easily customize lighting effects using the Aurora Mobile App. Reconfigure the platform to reinvent displays year after year.



The Aurora Pro Manual is designed for non-technical users installing interactive lighting for the first time, as well as experienced technicians integrating Aurora Pro with protocols like DMX 512, KiNET or Art-Net.

## GUIDE OVERVIEW

The Aurora Pro Manual describes:

- How to navigate the Aurora Pro connector interface
- Basic installation preparations
- How to set up typical Aurora Pro lighting configurations
- How to upgrade Aurora Pro firmware and software
- Aurora Pro specifications, best practices, and troubleshooting

### Pro-Tip:

Reading the **Aurora Quick Start Guide** is highly recommended before reading this manual.

### Questions?

Additional support for Aurora Pro is available at [support.limbicmedia.ca](https://support.limbicmedia.ca) or contact [support@limbicmedia.ca](mailto:support@limbicmedia.ca)

View other documents at [support.limbicmedia.ca/guidesmanuals/](https://support.limbicmedia.ca/guidesmanuals/)

# ABOUT AURORA PRO

## Features

- Standalone, portable lighting controller
- Uses patented, sound-responsive algorithms
- Creates 2D- and 3D-mapped patterns
- Offers easy pattern and palette customization from the free Aurora Mobile App or DMX IN
- Includes multiple audio inputs and thus for consumer-level and professional audio equipment
- Supports up to 3600 LED pixels with built-in RGB connectors or up to 25,000 LED pixels using network protocols like DDP, Art-Net and KiNET

## LED Fixture Types Supported

Aurora Pro directly controls RGB LEDs with 8 built-in RGB connectors. Installers can take advantage of our extensive catalog of LED fixtures and accessories to scale up installations. Refer to the **Aurora Product Guide** for a detailed list.

Aurora Pro supports other lighting equipment using industry standard protocols, such as DDP, DMX 512/512, Art-Net<sup>1</sup>, sACN<sup>1</sup>, or KiNET<sup>1</sup> LED fixtures. These can be used alone or in conjunction with LED fixtures.

## Maximum Lights Supported

Control up to 600 LED pixels using built-in RGB connectors and Aurora Pro's internal power supply.

Control up to 3600 LED pixels using built-in RGB connectors and Power Top-Ups.

Control up to 25,000 LED pixels with network protocols like KiNET or DDP in conjunction with Network Distribution Boxes (NDBs).

Control 25,000+ LED pixels using custom hardware solutions.

Refer to the **Aurora Pro Power Best Practices Appendix** to troubleshoot pixel constraints.

## Standard Lighting Protocols Supported

DMX 512

Art-Net<sup>1</sup>

DDP

KiNET<sup>1</sup>

sACN<sup>1</sup>

WS2811

<sup>1</sup>Contact Limbic Media for details.

# AURORA PRO CONNECTOR INTERFACE

The Aurora Pro connector interface is complete with multiple audio inputs/outputs, built-in RGB connectors and buttons. Some of Aurora Pro's functionality can be accessed directly from the connector interface.

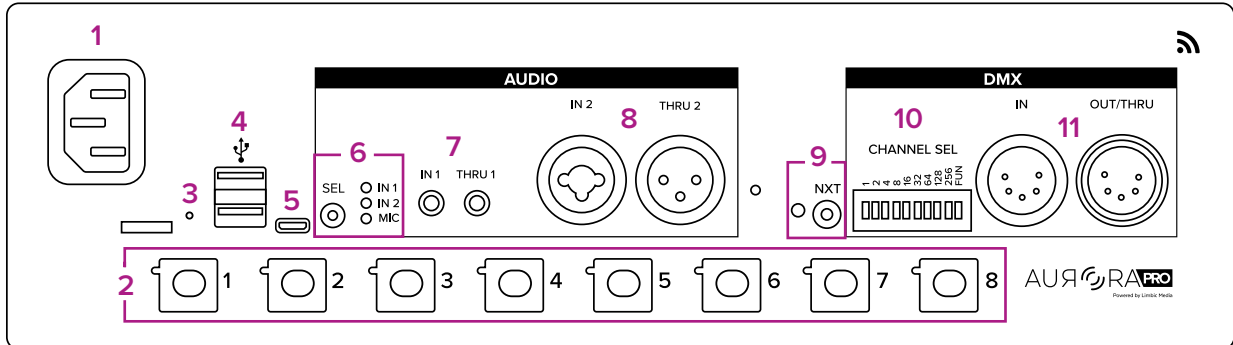


Fig. 1 Aurora Pro Connector Interface

- |  |  |
|--|--|
| 1. Power connector                           | 7. 1/8" IN/THRU <sup>2</sup> audio jack (IN 1 THRU <sup>2</sup> 1)         |
| 2. Built-in RGB connectors                   | 8. 1/4" TRS/XLR audio jack IN/THRU <sup>2</sup> (IN 2 THRU <sup>2</sup> 2) |
| 3. Reset button                              | 9. Next mode/pattern (NXT) and status LED                                  |
| 4. USB A connectors                          | 10. Channel select dip switch (CHANNEL SEL)                                |
| 5. USB micro B connector                     | 11. DMX IN OUT/THRU <sup>2</sup> (IN OUT/THRU)                             |
| 6. Audio select button (SEL) and status LEDs |  |

## 1. Power connector

The power connector is located at the top left of the front panel. This connects Aurora Pro to AC power via an IEC power cable.

## 2. Built-in RGB connectors

Aurora Pro comes with 8 built-in RGB connectors numbered ports 1-8. Refer to the **Aurora Product Guide** for a catalog of available LED fixtures and accessories.

## 3. Reset button

The reset button restores Aurora Pro to its default system settings. A paper clip or pin is required to press the button.

## 4. USB A connectors

Two USB A connectors connect a USB audio interface, USB-to-Ethernet adapter, or USB data stick to Aurora Pro.

## 5. USB micro B connectors

The USB micro B connector is used to update Aurora Pro firmware.

<sup>2</sup> THRU is labeled OUT on older models of Aurora

## 6. Audio select button (SEL) and status LEDs

The audio select button (SEL) cycles through available audio inputs (IN 1, IN 2, MIC). The audio select status LEDs indicate which input is selected and the current audio input level:

Color	Audio Input Level
Green	-Inf < Input level < -5dB
Yellow	-5 dB < Input level < -0.5 dB
Red	-0.5 dB < Input level < 0 dB

## 7. 1/8" IN/THRU audio jack (IN 1 THRU<sup>2</sup> 1)

The 1/8" IN/THRU audio jack (IN 1 THRU 1) connects consumer-level audio sources and speakers to Aurora Pro.

## 8. 1/4" TRS/XLR combo jack IN/THRU (IN 2 THRU<sup>2</sup> 2)

The 1/4" TRS/XLR combo jack IN/THRU (IN 2 THRU 2) connects pro-audio equipment such as mixers and external stereo systems to Aurora Pro.

## 9. Next mode/pattern and status LED

Holding the next mode/pattern button (NXT) down for 5 seconds switches between Live Control Mode and Show Mode.

Pressing the next mode/pattern button (NXT) cycles through lighting patterns in Live Control Mode, and previously set lighting cues in Show Mode.

The next mode/pattern status LED indicates Aurora Pro's mode:

Color	Solid LED	Flashing LED
Green	Show Mode	Show Mode paused <sup>3</sup>
Yellow	DMX 512 mode	N/A
Red	Live Control Mode	Live Control Mode paused <sup>3</sup>
White	System default restore	System update
None	Show Mode/Live Control Mode stopped	N/A

Refer to **Aurora Mobile App Manual** to learn more about performance modes.

## 10. Channel select dip switch (CHANNEL SEL)

The DMX IN channel select dip switch (CHANNEL SEL) allows you to set the DMX 512 address for DMX 512 control.

## 11. DMX IN OUT/THRU<sup>3</sup> (IN OUT/THRU)

DMX IN OUT/THRU (IN OUT/THRU) connects DMX 512 controllers, consoles and fixtures to Aurora Pro. Refer to **Set Up DMX 512 and Other Ethernet-Based Protocols** for details.

<sup>3</sup> LED pixels stay ON when the system is paused in Show or Live Control Mode. LED pixels turn OFF when the system is stopped in Show Mode or Live Control Mode.



## PREPARE FOR AN INSTALLATION

It is important to properly plan lighting configurations before installing Aurora Pro. Ensure all fixtures are accounted for prior to installing. Installing and testing fixture configurations in an accessible area prior to final installation is highly recommended.

### **Warning:**

Do not hang Aurora Pro by the built-in RGB connectors. Use proper mounting features and strain relief on light runs longer than 25 LED pixels.

### Included Components

- Aurora Pro
- (4) Mounting brackets
- (4) Mounting bolts
- (1) Power cable
- (8) Dust caps
- (1) **Aurora Quick Start Guide**

### Power Aurora Pro ON/OFF

#### Required Components

- Aurora Pro
- Power cable

#### Method

1. Connect Aurora Pro's power connector to AC power via the included power cable. Aurora starts automatically once power is applied.
2. Wait 60 seconds for Aurora Pro to power ON.
3. Remove the power cable to power Aurora Pro OFF.

### Connect LED Pixels to Built-In RGB connectors

8 Built-in RGB connectors are located at the bottom of the front panel. Each built-in RGB connector supports a maximum of 75 LED pixels with Aurora Pro's internal power supply, for a total of 600 pixels across all 8 built-in RGB connectors.

Each built-in RGB connector supports up to 450 LED pixels with additional Power Top-Ups, for a total of 3600 LED pixels across all 8 built-in RGB connectors. Refer to **Configure Aurora Pro** for details on how to set up Aurora Pro with additional components, such as Power Top-Ups.

### **Caution:**

Do not connect LED pixels while Aurora Pro is connected to power.

### Pro-Tip:

Any combination of built-in RGB connectors can be used, but patterns work optimally when connected sequentially from 1→8.

### Required Components

- Aurora Pro
- Leader cables (optional)<sup>4</sup>
- LED pixel strand(s)



Fig. 2: Male and female ends of RGB connectors

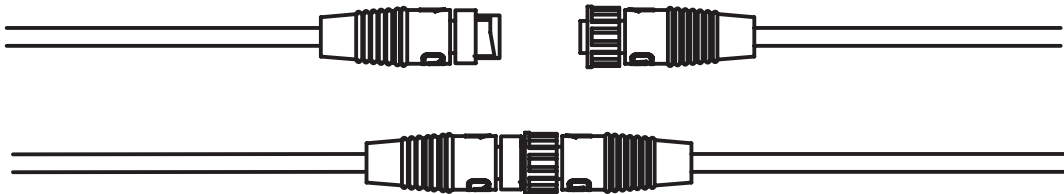


Fig. 3: Turning RGB connector locking mechanism

### Method

1. Power Aurora Pro OFF.
2. Unscrew the dust caps on each built-in RGB connector.
3. If using leader cables, connect the male end of a LED pixel strand to the female end of each leader cable. (Fig. 2)
4. Connect the male end of each LED pixel strand or leader cable to each built-in RGB connector. Ensure the O-ring on the male connector is present to retain the waterproof seal.
5. Hand-tighten the locking mechanisms. RGB connectors requires a half-turn to tighten. (Fig. 3)

### Caution:

To reduce the risk of shock and water corrosion, connect dust caps to unused LED pixel strand ends.

<sup>4</sup> Leader cables 15' or greater require Smart Extender/Receiver adapters. Refer to the **Aurora Product Guide** for details on Power Top-Ups and Smart Extender/Receiver adapters.

## CONFIGURE AURORA PRO

Aurora Pro can be installed in a variety of configurations depending on the number of LED pixels required. The following configurations are common Aurora Pro setups with and without additional components such as Network Distribution Boxes (NDBs) and Power Top-Ups.

### Set Up Aurora Pro Using Built-In RGB connectors (without Power Top-Ups)

Aurora Pro supports installations with up to 600 LED pixels without Power Top-Ups. Each Aurora Pro built-in RGB connector supports a maximum of 75 LED pixels without Power Top-Ups.

Aurora Pro supports up to 3600 LED pixels with Power Top-Ups. Refer to **Set Up Aurora Pro Using Built-In RGB connectors (with Power Top-Ups)** for details.

### Required Components

- Aurora Pro
- Leader cables (optional)
- LED pixels
- Audio input (if sound reactivity is required)
- Aurora Pro outdoor enclosure (optional)

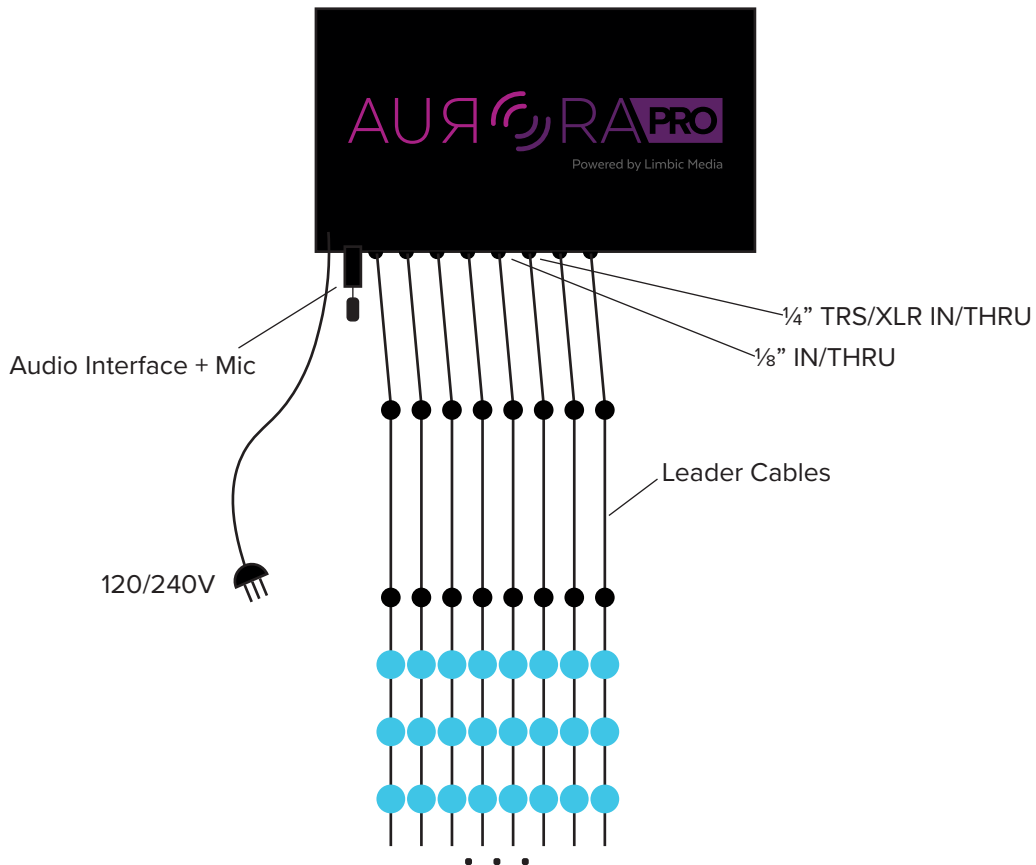


Fig. 4: Aurora Pro setup using built-in RGB connectors without Power Top-Ups

## Method

1. Power Aurora Pro OFF. Aurora Pro must be contained in an outdoor enclosure for outdoor installations. Refer to the **Aurora Product Guide** for outdoor accessories.
2. Connect leader cables to each built-in RGB connector.
3. Connect LED light strands to each leader cable (or to each built-in RGB connector if leader cables are not in use).
4. Power Aurora Pro ON.
5. Refer to **Aurora Mobile App Manual** to begin customizing your light show.

## Set Up Aurora Pro Using Built-In RGB connectors (with Power Top-Ups)

Aurora Pro supports installations with up to 3600 LED pixels with Power Top-Ups. Each Aurora Pro built-in RGB connector supports a maximum of 450 LED pixels with Power Top-Ups.

Power Top-Ups extend the LED pixels per port limit beyond 75. Each Power Top-Up supports an additional 100 LED pixels (or 80 LED pixels of Triklit-style fixtures). This allows a single port to support 4-5 Power Top-Ups, depending on the LED fixture style used.

## Required Components

- Aurora Pro
- Leader cables (optional)
- LED pixels
- Audio input
- 5 A Power Top-Up(s)
- Power-T(s)
- Aurora Pro outdoor enclosure (optional)

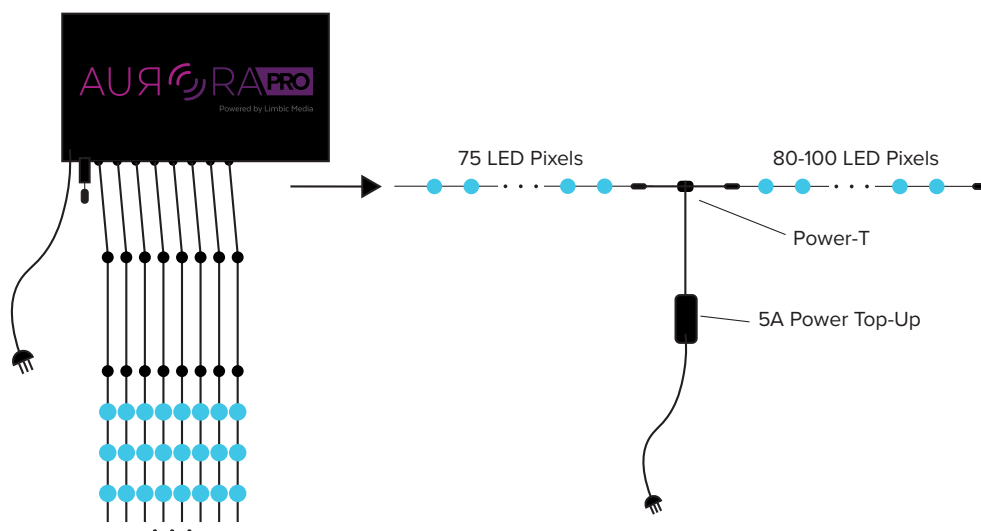


Fig. 5: Aurora Pro set up with built-in RGB connectors and Power Top-Ups

## Method

1. Power Aurora Pro OFF. Aurora Pro must be contained in an outdoor enclosure for outdoor installations. Refer to the **Aurora Product Guide** for outdoor accessories.
2. Connect Power-T(s) to each 5 A Power Top-Up.
3. Connect leader cables to each built-in RGB connector.
4. Connect LED pixel strands to each leader cable (or to each built-in RGB connector if leader cables are not in use).
5. Connect the Power-Pwer-T(s) and 5 A Power Top-Up(s) to the end of each LED pixel strand.
6. Connect additional Power-T(s) and 5 A Power Top-Ups and LED pixel strands, not exceeding 80-100 LED pixels per Power Top-Up or 450 LED pixels per port.
7. Power Aurora Pro ON.
8. Install and open the Aurora Mobile App. Refer to the **Aurora Mobile App Manual** for assistance setting the number of LED pixels per port, configuring audio settings and for customizing your light show.

### Pro-Tip:

Users must know how to change the network settings on their computer's operating system before configuring NDBs. Refer to **this tutorial** <http://bit.ly/2Qx0Vai> for configuring Windows network settings.

Computers (particularly newer Mac laptops) without an Ethernet port require an Ethernet-to-USB adapter (provided by Limbic Media) and a **driver** download.

**Contacting Limbic Media** for support is recommended if a driver download is necessary.

## Configure a Network Distribution Box (NDB)

Network Distribution Boxes (NDBs) increase the number of LED pixels supported by Aurora Pro. Installations using NDBs must be configured with NDB software.

If you are using multiple NDBs, refer to **Configure Multiple NDBs**. If you are using a single NDB, skip to **Set Number of LED Pixels Per Port**.

## Configure Multiple NDBs

NDBs communicate with Aurora Pro via IP address. NDBs have a default IP address of 10.0.0.100. If you are using multiple NDBs, each NDB must be configured with a unique IP address.

### Required Components

- PC or Mac computer
- Network Distribution Boxes (NDBs)
- Cat 5/6 network cable

### Method

1. Connect one of the NDBs to your computer via Cat 5 or Cat6 network cable and power the NDB ON.
2. Set your computer's IP address to match the NDB, except for the last number. Unless NDBs have been previously reconfigured, their default IP address should be 10.0.0.100—so setting your computer's IP address to 10.0.0.2, for example, should work. Set the netmask to 255.255.255.0, and the gateway (if present) to 10.0.0.1 (Fig. 6)

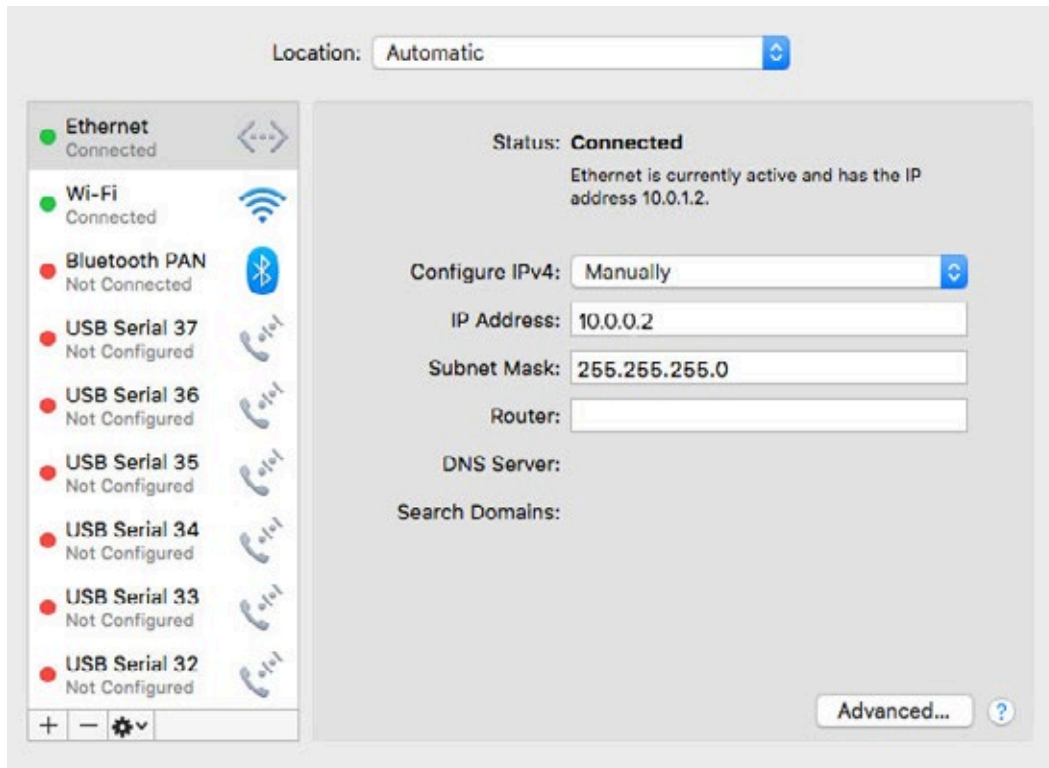


Fig. 6: Adjusting network settings on a Mac laptop. Other network settings screens may differ.

**Pro-Tip:**

If the NDB IP address has been changed, but you have no record of what the new IP address is, refer to **Reset an NDB** to restore the default IP address.

3. Open a web browser and connect to the default NDB IP address `http://10.0.0.100` to open the NDB configuration page. If the NDB was previously reconfigured to a different IP address, connect to that IP address instead. NDBs must be powered ON for the NDB configuration page to appear.

NDB+ v1.44

IP: 10 . 0 . 0 . 101  
NetMask: 255 . 255 . 255 . 0  
Gateway: 10 . 0 . 0 . 1

Protocol:  DDP  Art-Net  E1.31 (unicast)

Changes above this line require a save and reboot to take effect.

LED chip settings:  
Load defaults for:  RGB+  WS2812B  WS2812  WS2811-low  WS2811-high  TM1803  TM1804-low  TM1804-high  
TOH: 400 ns, TlH: 850 ns, Tbit: 1260 ns, Treset: 100 us  
order:  RGB  RDC  GRB  GBR  BRG  BGR  
greyscale: 16 bits

Fig. 7: NDB configuration page

4. Enter a new, unique NDB IP address. Using the sequence 10.0.0.101, 10.0.0.102, 10.0.0.103, etc. is recommended for each NDB, but anything from 10.0.0.0 - 10.0.0.254 works. Keep the netmask set to 255.255.255.0, and the gateway to 10.0.0.1 (Fig.7)
5. Select DDP as the protocol, and under LED chip settings, load defaults for RGB. To use any of the other protocols listed, please **contact Limbic Media for support**.
6. Refer to steps 5-9 under **Configure a Single NDB** below.
7. Select SAVE to make the NDB configuration changes permanent.
8. Write the NDB's new IP address on a piece of tape and attach it to the NDB case. This is the easiest way to reference each NDB's IP address.
9. Press the reset button on the outside of the NDB (do not hold) with a pin to reboot and apply the changes.
10. Repeat this process to change the IP address for each NDB.

## Configure a Single NDB

Setting LED pixels per port with NDBs must be configured with a computer, not the Aurora Mobile App.

### Required Components

- PC or Mac computer
- Cat 5/6 network cable
- Network Distribution Box (NDBs)

### Method

1. Connect an NDB to your computer via Cat 5/6 network cable and power the NDB ON.
2. Set your computer's IP address to match the NDB, except for the last number. Unless NDBs have been previously reconfigured, their default IP address should be 10.0.0.100—so setting your computer's IP address to 10.0.0.2, for example, should work. Set the netmask to 255.255.255.0, and the gateway (if present) to 10.0.0.1 (Fig. 8)

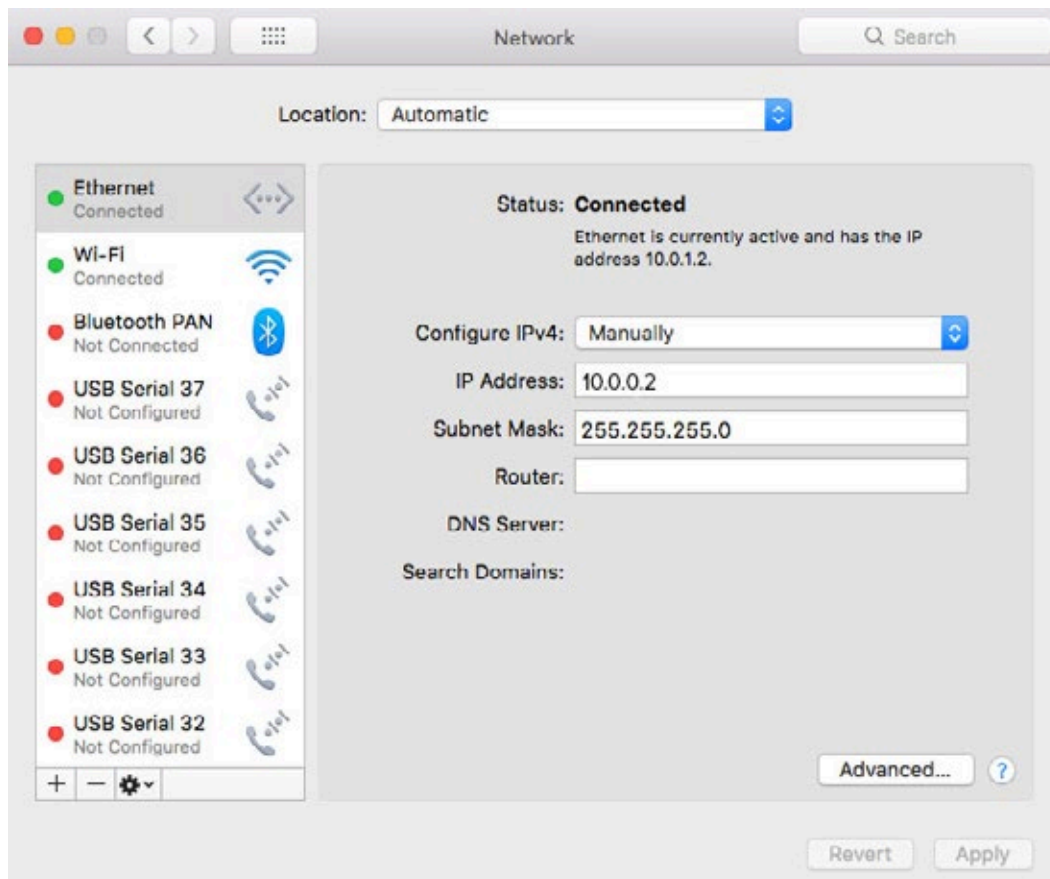


Fig. 8: Adjusting network settings on a Mac laptop. Other network settings screens may differ.

### Pro-Tip:

If the NDB IP address has been changed, but you have no record of what the new IP address is, refer to **Reset an NDB** to restore the default IP address.



- Open a web browser and connect to the default NDB IP address `http://10.0.0.100` to open the NDB configuration page. If the NDB was previously reconfigured to a different IP address, connect to that IP address instead. NDBs must be powered ON for the NDB configuration page to appear.

NDB+ v1.44

IP:  .  .  .

NetMask:  .  .  .

Gateway:  .  .  .

Protocol:  DDP  Art-Net  E1.31 (unicast)

Changes above this line require a save and reboot to take effect.

---

LED chip settings:

Load defaults for:

TOH:  ns, TH:  ns, Tbit:  ns, Treset:  us

order:  RGB  RBG  GRB  GBR  BRG  BGR

greyscale: 16 bits

Fig. 9: NDB configuration page

- Keep the netmask set to 255.255.255.0, and the gateway to 10.0.0.1 (Fig. 9)

Outputs:  16  8

Maximum Lights/Output: 230

Output	Smart-Ts	Lights/String	Reverse?	Starting Slot
1	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="checkbox"/>	<input type="text" value="1"/>
2	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="checkbox"/>	<input type="text" value="226"/>
3	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="checkbox"/>	<input type="text" value="451"/>
4	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="checkbox"/>	<input type="text" value="676"/>
5	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="checkbox"/>	<input type="text" value="901"/>
6	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="checkbox"/>	<input type="text" value="1126"/>
7	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="checkbox"/>	<input type="text" value="1351"/>
8	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="checkbox"/>	<input type="text" value="1576"/>
9	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="checkbox"/>	<input type="text" value="1801"/>
10	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="checkbox"/>	<input type="text" value="2026"/>
11	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="text" value="1"/>
12	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="text" value="1"/>
13	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="text" value="1"/>
14	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="text" value="1"/>
15	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="text" value="1"/>
16	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="text" value="1"/>

Set unused ports to zero Lights.  
When using Smart-Ts, the number of Lights/String on all ports must be the same (or zero).

---

Upgrade NDB+ firmware:  No file chosen  (press once and wait!)

Fig. 10: NDB configuration page: set LED pixels per port

- Select DDP as the protocol, and under LED chip settings, load defaults for RGB. To use any of the other protocols listed, please **contact Limbic Media** for support.

6. Select the number of NDB ports used under Outputs. For example, a 16-port NDB can be used in 16-port mode or 8-port mode. In 16-port mode, an NDB supports 230 LED pixels maximum per port. In 8-port mode, it supports up to 460 LED pixels maximum per port (Fig. 10)
7. Set the number of LED pixels for each NDB port. If you are using the same number of LED pixels across all ports, select Auto-Fill from Output 1 down. Set the same number of LED pixels across all ports if using Smart-T's, regardless of how many Smart-T's are used on each port.
8. Set the number of LED pixels in any unused NDB ports to 0.
9. Set the Starting Slot of each port. To find any port's Starting Slot, multiply the previous port's Lights/String number by 3 and add that port's Starting Slot number. For example, If a port has 75 LED pixels with a Starting Slot at 226, the next port's Starting Slot will be **451** ( $75 \times 3 + 226 = 451$ ).
10. Select the REVERSE function on any ports to reverse their LED pixel order.
11. Select SAVE to make the NDB configuration changes permanent.
12. Turn the NDB OFF/ON.

### Reset an NDB

Reset an NDB after making changes on the NDB configuration page, or to restore its default settings.

#### Required Components

- Network Distribution Box (NDB)
- Pin/paperclip

#### Method

1. Power the NDB ON.
2. Press the reset button on the outside of the NDB (do not hold) with a pin to reboot the NDB after making any configuration changes.
3. Press the reset button for 1-5 seconds to reset the NDB's IP address, netmask, and gateway back to the factory default. Other lighting configuration data, such as LED pixels per port, remains the same.
4. Press the reset button for more than 5 seconds to reset all configuration data back to the factory default.

### Set Up Aurora Pro with a Single Network Distribution Box (NDB)

A Network Distribution Box (NDB) increases the number of LED pixels supported by Aurora Pro and localizes the system's power to each NDB. A single NDB supports 1000 LED pixels maximum. Each NDB port supports 100 LED pixels (or 80 LED pixels of Triklit-style fixtures).

Power Top-Ups are required to extend the LED pixels per port limit beyond 80-100. Refer to **Set up Aurora Pro with Network Distribution Boxes (NDBs) and Power Top-Ups** below for details.

## Required Components

- Aurora Pro
- Leader cables (optional)
- LED light strands
- Audio device (if sound reactivity is required)
- USB-to-Ethernet adapter
- Cat 5/6 network cable
- Network Distribution Box (NDB)
- Indoor- or outdoor-rated NDB power supply (12.5/16/22/40 A)
- Aurora Pro outdoor enclosure (optional)
- NDB outdoor enclosure (optional)
- Network Switch (if using multiple NDBs)

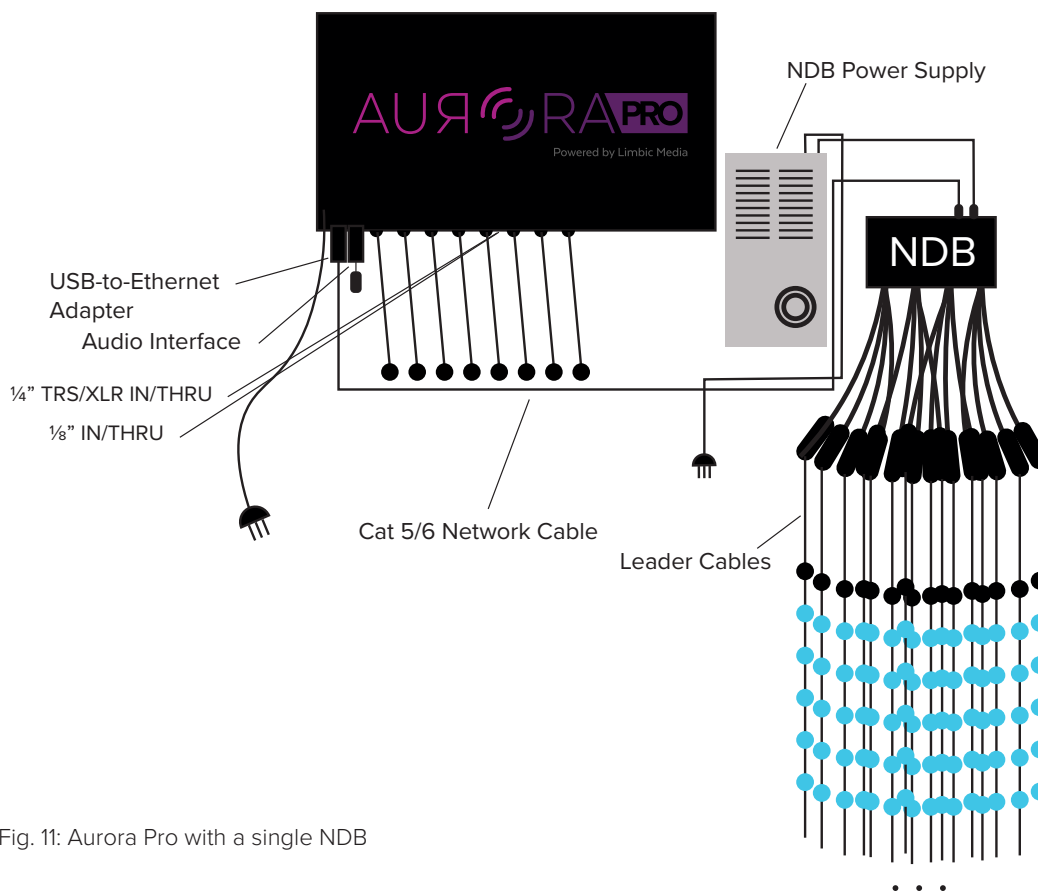


Fig. 11: Aurora Pro with a single NDB

## Method

1. Power Aurora Pro OFF. Aurora Pro and NDBs must be contained in outdoor enclosures for outdoor installations. Refer to the **Aurora Product Guide** for outdoor accessories.
2. Connect an NDB to an NDB power supply.
3. Configure the NDB. See **Configure a Network Distribution Box (NDB)** above for details.
4. Connect a USB-to-Ethernet adapter to one of Aurora Pro's USB A ports.
5. Connect the USB-to-Ethernet adapter to the NDB via Cat 5/6 network cable.
6. Connect leader cables to each NDB port.

7. Connect LED pixel strands to each leader cable (or to each NDB port if leader cables are not in use).
8. Power Aurora Pro and the NDB power supply ON. NDBs must be powered ON either before or at the same time as Aurora Pro to load configuration data properly. NDBs cannot be powered ON after Aurora Pro.
9. Connect an audio input to Aurora Pro and calibrate audio using the Aurora Mobile App Audio Settings. Refer to **Aurora Mobile App Manual** for details.

### Set up Aurora Pro with Multiple Network Distribution Boxes (NDBs)

Using multiple Network Distribution Boxes (NDBs) increases the number of LED pixels supported by Aurora Pro up to 25,000 LED pixels. A single NDB supports 1000 LED pixels maximum. Each NDB port supports 100 LED pixels (or 80 LED pixels of Triklit-style fixtures). To achieve 25,000 LED pixels, for example, 25 NDBs are required.

Power Top-Ups are required to extend the LED pixels per port limit beyond 80-100. Refer to **Set up Aurora Pro with Network Distribution Boxes (NDBs) and Power Top-Ups** for details.

### Required Components

- Aurora Pro
- Leader cables (optional)<sup>8</sup>
- LED pixels
- Audio input
- USB-to-Ethernet adapter
- Network switch (1 port per NDB)
- Cat 5/6 network cables (1 for the network switch and 1 per NDB)
- Network Distribution Boxes (NDBs)
- Indoor- or outdoor-rated NDB power supplies (12.5/16/22/40 A)
- Aurora Pro/network switch outdoor enclosure (optional)
- NDB outdoor enclosures (optional)

#### Pro-Tip:

Aurora Pro outdoor enclosures can also house a network switch. An NDB outdoor enclosure can house a network switch in installations where Aurora Pro is installed away from NDBs.

<sup>8</sup>Leader cables longer than 15' require Power Top-Ups and Smart Extender/Receiver adapters. Refer to the **Aurora Product Guide** for details on Power Top-Ups and Smart Extender/Receiver adapters.

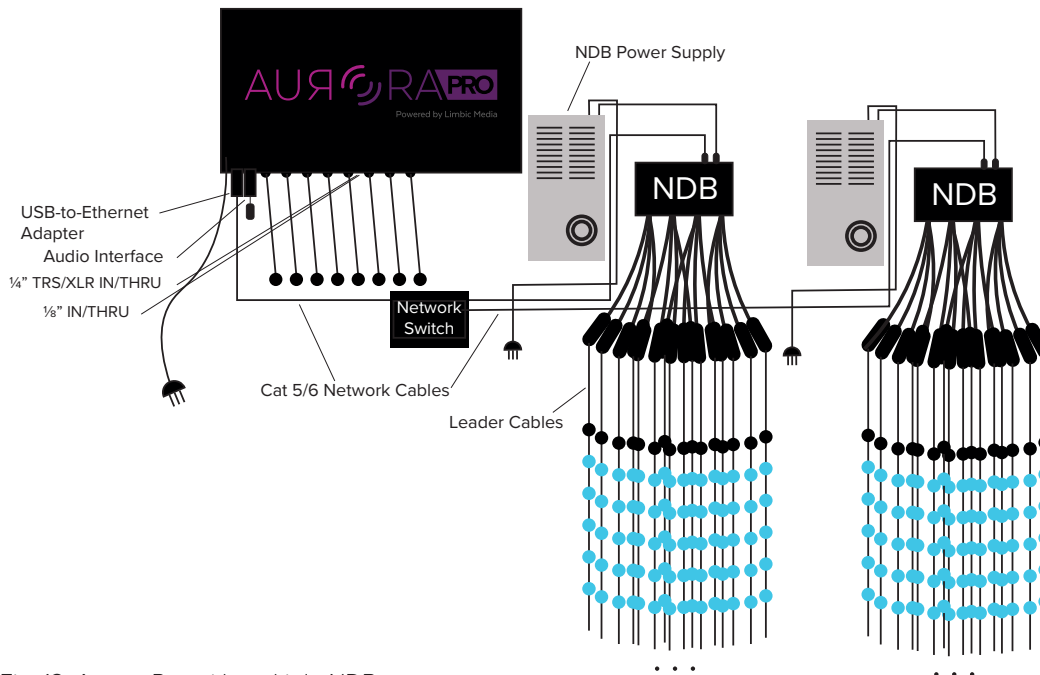


Fig. 12: Aurora Pro with multiple NDBs

## Method

1. Power Aurora Pro OFF. Aurora Pro and NDBs must be contained in outdoor enclosures for outdoor installations. Refer to the **Aurora Product Guide** for outdoor accessories.
2. Connect each NDB to an NDB power supply.
3. Configure the NDBs. See **Configure a Network Distribution Box (NDB)** above for details.
4. Connect a USB-to-Ethernet adapter to one of Aurora Pro's USB A ports.
5. Connect the USB-to-Ethernet adapter to a network switch via Cat 5/6 network cable.
6. Connect the network switch to each NDB via Cat 5/6 network cables.
7. Connect leader cables to each NDB port.
8. Connect LED pixel strands to each leader cable (or to each NDB port if leader cables are not in use).
9. Power Aurora Pro and all NDB power supplies ON. NDBs must be powered ON either before or at the same time as Aurora Pro to load configuration data properly. NDBs cannot be powered ON after Aurora Pro.
10. Connect an audio input to Aurora Pro and calibrate audio using the Aurora Mobile App Audio Settings. Refer to **Aurora Mobile App Manual** for details.

### Pro-Tip:

If you are using multiple NDBs, arrange them in order of their IP addresses for best results. Refer to the **NDB configuration** section for more information.

## Set up Aurora Pro with Network Distribution Boxes (NDBs) and Power Top-Ups

5 A Power Top-Ups and Power-T's are required to extend the LED pixels per port limit on Network Distribution Boxes (NDBs) beyond 80-100.

NDBs can be programmed in 8 or 16-port modes, supporting 460 and 230 LED pixels per port respectively. A single NDB supports 1000 LED pixels maximum, even with Power Top-Ups.

### Required Components

- Aurora Pro with NDB(s)
- LED pixels
- Power-T(s)
- 5 A Power Top-Up(s)

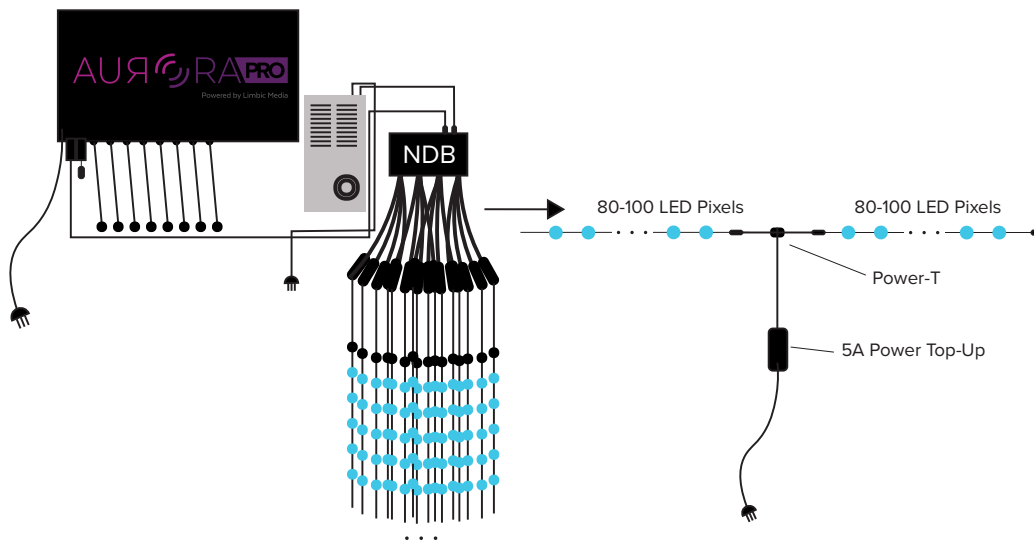


Fig. 13: Aurora Pro with NDB(s) and Power Top-Ups

### Method

1. Install Aurora Pro with an NDB(s), using the above instructions. Aurora Pro and NDBs must be contained in an outdoor enclosure for outdoor installations. Refer to the **Aurora Product Guide** for outdoor accessories.
2. Configure the NDBs. See **Configure a Network Distribution Box (NDB)** above for details.
3. Power Aurora Pro and all power supplies OFF. Connect the Power-T(s) to each 5 A Power Top-Up.
4. Connect the Power-T(s) and A Power Top-Up(s) to the end of each LED pixel strand installed in step 1.
5. Connect additional Power-T(s) and 5 A Power Top-Ups and LED pixel strands, not exceeding 80-100 LED pixels per Power Top-Up or the LED pixel limit per port specified during NDB configuration.
6. Power Aurora Pro and any NDB power supply ON. NDBs must be powered ON either before or at the same time as Aurora Pro to load configuration data properly. NDBs cannot be powered ON after Aurora Pro.
7. Connect an audio input to Aurora Pro and calibrate audio using the Aurora Mobile App Audio Settings. Refer to **Aurora Mobile App Manual** for details.

## CONNECT AND CALIBRATE AUDIO INPUTS

Aurora Pro creates light shows in real-time from incoming audio. There are multiple ways to send audio input to Aurora Pro.

### Connect Consumer-Level Speakers and Audio Devices

The 1/8" IN/THRU (IN 1 THRU 1)<sup>10</sup> connects consumer-level speakers and audio devices to Aurora Pro.

#### Pro-Tip:

Only the left channel of a stereo 1/8" audio cable is sent to Aurora's audio analysis system.

### Required Components

- Aurora Pro
- 1/8" Mono or stereo audio cables (2)
- Smart mobile device
- Speakers with 1/8" audio input jack

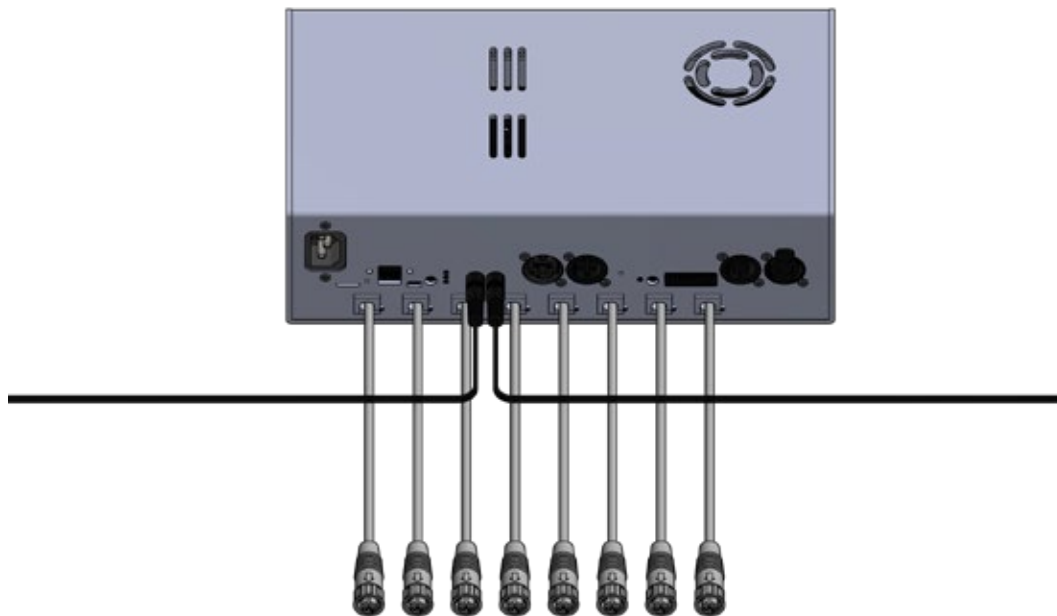


Fig. 14: Aurora Pro with 1/8" IN/THRU (IN 1 THRU 1) audio connected

### Method

1. Connect an audio input to IN 1 on Aurora Pro using an 1/8 audio cable.
2. Press the audio select button (SEL) until the IN 1 status LED is selected. You can also select IN 1 as the audio input source in the Aurora Mobile App. Refer to **Aurora Mobile App Manual** for details.
3. Connect an audio playback device to THRU 1 using an 1/8 in audio cable.

<sup>10</sup> THRU is labeled OUT on older models of Aurora

## Connect Pro Audio Equipment

The ¼" TRS/XLR combo jack IN and XLR THRU ports connect Aurora Pro to pro-audio equipment like Mixers and PA speakers.

### Required Components

- Aurora Pro
- Pro-audio input and output with ¼" mono or stereo TRS/XLR cables
- Smart mobile device

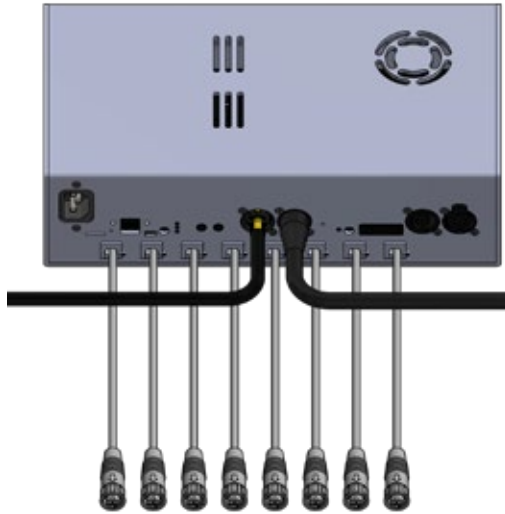


Fig. 15: AuroraTRS Mono IN/THRU



Fig. 16: XLR Mono IN/THRU

### Method

1. Connect a pro-audio device's audio output to Aurora's IN 2 port using a ¼ in, TRS, or XLR Cable.
2. Connect a pro-audio device's audio input to Aurora's THRU 2 port using an XLR Cable.
3. Press the audio select button (SEL) until the IN 2 status LED is selected. You can also select IN 2 as the audio input source in the Aurora Mobile App. Refer to **Auroa Auora Mobile APP Manual** for details.



## Connect a Microphone

Aurora Pro has 2 USB A ports to connect a USB audio interface with a 1/8" microphone.

### Required Components

- Aurora Pro
- Microphone with 1/8" output
- USB audio interface



Fig. 17: USB Audio interface + 1/8" microphone connected to Aurora Pro

### Method

1. Connect a USB audio interface with a 1/8" microphone to one of the USB A Ports
2. Press the audio select button (SEL) until the MIC status LED is selected. You can also select MIC as the audio input source in the Aurora Mobile App. Refer to **Aurora Mobile App Manual** for details.

## SET UP DMX 512 PROTOCOL

Aurora Pro is compatible with DMX 512, both to be used as a fixture (DMX IN), and to control other fixtures (DMX OUT).

### Notice:

DMX IN and DMX OUT cannot be used at the same time since they are electrically linked.

### Set Up DMX IN

Aurora Pro's DMX IN function allows Aurora to act as a DMX 512 fixture. Aurora Pro has 9 DMX 512 parameters. Refer to the **Aurora DMX 512 Specification Appendix** for details on each parameters controls.

### Required Components

- Aurora Pro
- DMX 512 controller or console

### Method

1. Connect a DMX 512 controller or console to Aurora Pro's 5-pin DMX IN port. (Fig. 18)
2. Toggle the function switch (FUN) to the UP position on Aurora Pro's channel select dip switch (CHANNEL SEL). This enables DMX 512 mode.
3. Set Aurora Pro's base channel using the channel select dip switch (CHANNEL SEL). Both channel 0 and 1 on the DMX 512 dip switch default to base channel 1.
4. The DMX 512 dip switch uses binary (base-2) encoding for setting the channel number. Refer to **a dip switch calculator (<http://bit.ly/2RNmWSC>)** to help set Aurora Pro's base channel.
5. Use the DMX 512 controller or console to adjust Aurora Pro's library of lighting parameters. Refer to the **Aurora DMX 512 Specification Appendix** for details.

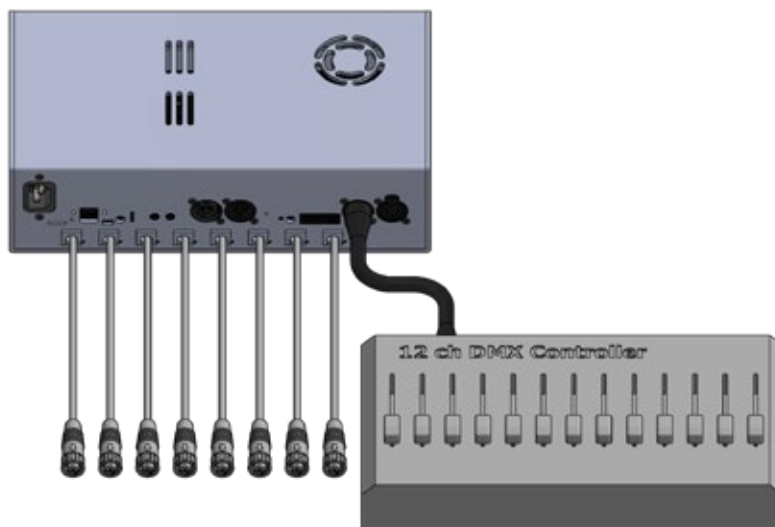


Fig. 18: Connect a DMX 512 controller to Aurora Pro's 5-pin DMX IN port.

## Set Up DMX OUT

DMX OUT enables Aurora Pro to send its RGB lighting data to DMX 512 compatible fixtures. Users can sync a single universe of DMX 512 fixtures in conjunction with connected lights, NDBs or other network protocols like KiNET and Art-Net. Refer to the **Aurora Mobile App Manual** for more information.

### Required Components

- Aurora Pro
- DMX 512 Controllable RGB Lights
- Mobile Device

### Method

1. Connect your lights to Aurora Pro's DMX OUT/THRU port using a 5 pin XLR cable. If your DMX 512 lights have three pin connectors, you'll need to use a 5 pin male to 3 pin female XLR adapter.
2. Set your lights' addresses so that they can be controlled independently
3. Configure Aurora's DMX OUT settings in the Protocols menu using the Aurora Mobile App. Refer to the **Aurora Mobile APP Manual** for more information.

## FACTORY RESET & UPGRADE SOFTWARE

### Factory Reset Aurora Pro

Factory resetting Aurora Pro returns it to its default configuration. This is useful if Aurora becomes inoperable.

### Required Components

- Aurora Pro
- Pin/paperclip

### Method

1. Power Aurora Pro ON.
2. Place a pin or paperclip into the reset button hole and hold for 5 seconds.
3. Ensure Aurora Pro's audio select LEDs flash white. This indicates that Aurora Pro is reverting to its default configuration.
4. Keep Aurora Pro powered ON. Aurora Pro will restart automatically when the factory reset is complete.

## Upgrade Aurora Pro Software

Update Aurora Pro's software with an Aurora Package to unlock new patterns, palettes, and other functionality. Check the Aurora Pro version using the Aurora mobile app before upgrading software. Aurora Pro V1.3 or less requires a firmware update before software updates will work. Visit Aurora Support for a software version changelog.

### Required Components

- Aurora Pro
- PC or Mac computer
- USB drive
- Aurora Package file

### Method

1. Ensure your **USB drive is formatted Fat32** and plug into your computer.
2. Go to <https://support.limbicmedia.ca/software-update-pro/>
3. Select Aurora Package to download the update:

A rectangular button with a purple border and the text "Aurora Package" in purple font.

Fig. 35: Aurora Package button

4. Put the .aur file on the USB drive.
5. Power Aurora Pro OFF and insert the USB drive in either of its USB A Ports.
6. Power Aurora Pro ON and wait until the audio select LEDs stop cycling white.
7. Wait until Aurora Pro is running normally before removing the USB drive.

#### **Pro-Tip:**

Aurora Package updating resets any saved shows in Show Mode when updating from software version 1.6.1 or earlier.

# APPENDICES

## Aurora Terminology

### Cues

Cues are specific configurations of a pattern, palette, and parameters that can be saved and played in a Show.

### LED Pixels

LED pixels refer to the RGB LED fixtures used in Aurora installations.

### Mobile App Connection Modes

#### AP Mode

AP Mode establishes a one-to-one Wi-Fi connection between Aurora Pro and a mobile device.

#### Station Mode<sup>12</sup>

Station Mode establishes a Wi-Fi connection between Aurora Pro and an existing external Wi-Fi network that a mobile device is connected to.

### Palette

Palettes are the color schemes Aurora uses in its Patterns.

### Parameter

Parameters control features of each pattern and palette such as speed, energy, variance, and decay. Parameters affect each pattern differently.

### Pattern

Patterns are the foundation of Aurora lighting design. Patterns uniquely analyze incoming audio data and map the data into specific lighting behavior. Each pattern also reacts differently to lighting parameters. Playing with parameters for each palette is recommended to optimize light shows.

### Performance Modes

Performance Modes determine how Aurora lighting data is controlled: in real-time (Live Control Mode), through predefined cue lists (Show Mode), or through third-party lighting protocols, such as DMX 512.

#### Live Control Mode

Live Control Mode allows users to change patterns, palettes, and parameters in real-time using the Aurora Mobile App.

#### Show Mode

Show Mode allows users to create and schedule a set of cues.

#### DMX IN Mode

DMX IN Mode allows users to access the functionality of Live Control Mode via a DMX 512 controller or console. Refer to the **Aurora DMX 512 Specification Appendix** for information.

### Shows

A Show is a set of cues played in succession for specific time durations, set to run indefinitely or until an event is registered e.g. silence detection.

<sup>12</sup> For information on setting up DMX 512 fixtures via the mobile app refer to DMX 512 <https://support.limbicmedia.ca/guidesmanuals/>

# TROUBLESHOOTING

## Aurora Pro

Issue	Cause(s)	Solution
All lights on a single port turn OFF	Tripped fuse—too much current being pulled	Turn Aurora Pro ON/OFF.
Aurora Pro is not audio reactive	Wrong mode/Wrong connection	Check if audio reactive mode is ON/OFF on Aurora Mobile App or DMX 512 console/controller.  Check if audio is connected to IN 1 or IN 2.  Check audio input level on the Audio Control page
Aurora Pro is not audio reactive with Auto Gain	Loud audio causes Auto Gain to decrease automatically and requires time to reset to ambient sound levels	Give Aurora Pro ~15 seconds of silence to calibrate the Auto-Gain algorithm.

## Aurora Mobile App

Issue	Cause(s)	Solution
Aurora Pro not appearing on mobile device's Wi-Fi settings	--	Turn Wi-Fi network ON/OFF on the mobile device
Aurora Pro not appearing on the Aurora Mobile App's list of devices	--	Close and reopen the Aurora Mobile App.  Forget the Aurora network in the mobile device settings and re-find it.
Connecting to Android devices	Android-specific connection issues	Turn mobile data ON/OFF. Turn Bluetooth ON/OFF
Live Control Mode/Show Mode not working	Wrong mode	Ensure that Aurora Pro is not in DMX 512 mode (next mode/pattern status LED is yellow in DMX 512 Mode).

## Lighting

Issue	Cause(s)	Solution
LEDs flickering	Not enough power	Check power requirements or do end of line voltage testing.  Refer to the <b>Aurora Pro Power Best Practices Appendix</b> for details.
LEDs stuck on one color	Broken LED  Not enough power	Check for broken LEDs.  Check power requirements. Refer to the <b>Aurora Pro Power Best Practices Appendix</b> for details.
Odd colors appearing on LEDs	Not enough power	Check power requirements. Refer to the <b>Aurora Pro Power Best Practices Appendix</b> for details.

# AURORA DMX 512 SPECIFICATION

**Pro-Tip:**

Both Channels 0 and 1 set the DMX 512 base address of Aurora Pro to 1

DMX 512 Channel	Value	Function
1	0-255	Brightness
2	0-255	Color Palette Select  For an up-to-date list of color palette values refer to latest DMX 512 specification <sup>13</sup>
3	0-255	Pattern Select  For an up-to-date list of patterns refer to latest DMX 512 specification <sup>13</sup>
4	0-255	Transition Duration
5	0-255	Speed
6	0-255	Energy
7	0-255	Variance
8	0-255	Decay
9	Audio Reactive Mode	<b>Audio Reactive Toggle</b> 1-127
	Non-Audio Reactive Mode	128-255

<sup>13</sup> <https://support.limbicmedia.ca/guidesmanuals/>

## EXTENDED MODES OF INTERACTION

Aurora Pro goes beyond just sound-to-light technology. The following features are available for custom integration into an Aurora Pro platform. Contact Limbic Media for more information.

### Motion Tracking

Modulate lighting displays by integrating motion-tracking technology. Use a camera or sensor to track an audience's energy at a show, or with specifically defined gestures like waving and dancing. Aurora Pro translates this motion-based input into its lighting design algorithms.

### Voice Recognition

Integrate voice recognition technology into Aurora Pro to trigger lighting behavior in response to select words in any language. Say themed words (e.g. snowflake, rain, wind, or candy cane) and see corresponding light effects in real-time. Voice recognition technology is used in Show Me, an interactive content exploration tool ideal for public directories and events.

### Social Media Engagement

Integrate an Aurora Pro system with social media interaction. Send specifically selected hashtags or @-tags via Instagram and Twitter and see corresponding light effects in real-time.

### User-Controlled Tablet App

Put Aurora Pro's possibilities in your audience's hands by presenting an installation with a stripped-down version of the Aurora Mobile App. Audiences can adjust Aurora Pro's patterns, palettes, and parameters in real-time using a tablet interface, or finger-paint on the screen to create a corresponding light drawing.

### Coin Box Integration

Integrate an Aurora Pro system with a coin box for charity-based or fundraising installations. Offer donors a reward for their coin donations in the form of a light show. The same integration can apply to a number of other mechanisms, such as letter slots.



# AURORA PRO SPECIFICATIONS

(AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU)

## Control

Input	DMX IN, 1/8" stereo auxiliary input, XLR / 1/4" combo, USB audio interface + Mic, USB 2.0 connector x 2, micro USB, panel mount buttons x 2, recessed button
Output	USB 2.0 connector x 2 (USB-to-Ethernet adapter available), 1/8" mono THRU, XLR / 1/4" combo jack THRU, DMX OUT/THRU, 8 built-in RGB connectors

## Electrical

Input Voltage (NA)	120 VAC 60 Hz
Max. Input Current (NA)	6.8 A
Input Voltage (EU)	240 VAC 50 Hz
Max. Input Current (EU)	3.4 A
Max. Power Output	348 W

## Physical

Dimensions	299 x 158 x 85 mm (11.75 x 6.25 x 3.35")
Weight	2.6 kg (5.7 lb)
Housing	Acrylic/PVC blend
Operating Temperature	-25° - 40°C (13° - 104°F)
Humidity	20~90% RH, non-condensing

## Certifications

Certification	cLCus, FCC, CE
Environment	Indoor/dry location (Outdoor cases available for outdoor deployment. See the Aurora Product Guide for details.)



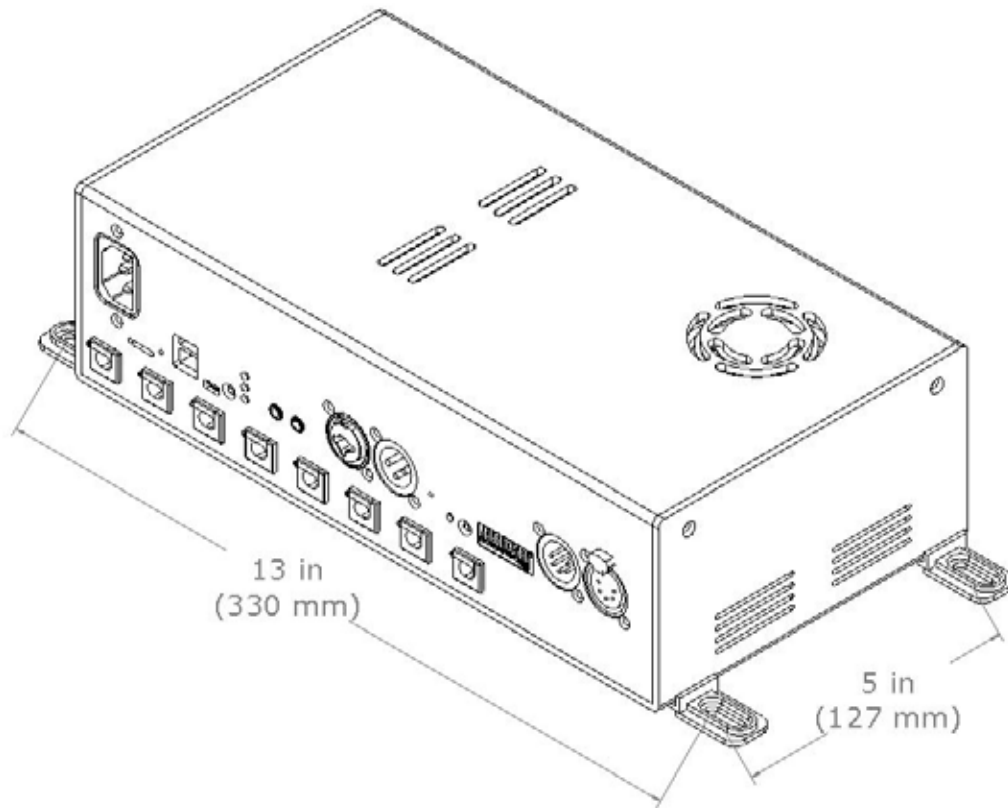


Fig. 22: Aurora Pro housing dimensions

## AURORA PRO POWER BEST PRACTICES

### Power Requirements

Aurora Pro requires a maximum current of 6.8 A at 120 VAC and 3.4 A at 240 VAC.

### Power and Data considerations for installations

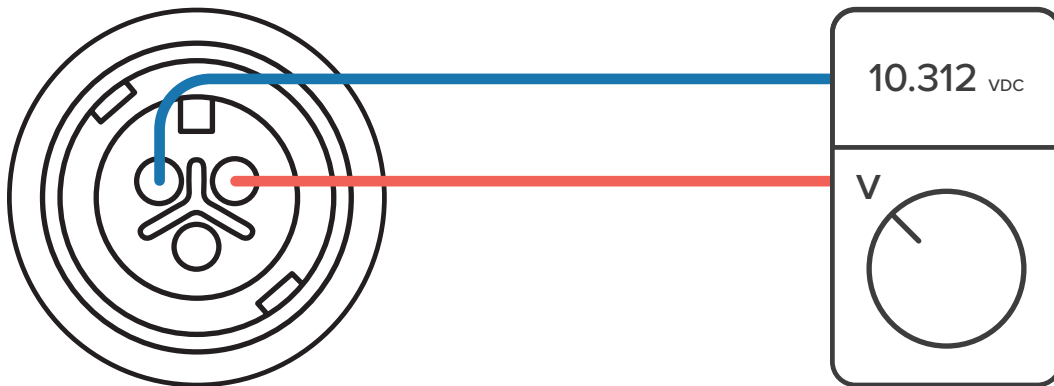
- Each Port on Aurora Pro supplies 2.5 A at 12 V.
  - This will power 75 LED pixels per port for a maximum of 600 LED pixels.
- Power Top-Ups supply 5 A at 12 V.
  - Inject power every 100' or 100 LED pixels—whichever comes first.
  - Inject power every 80' or 80 LED pixels for Triklit-style lights—whichever comes first.
- At 2.5 A, a 20' leader cable drops approximately 1 V.
- At 2.5 A 10' leader cable drops approximately 0.5 V.
- Power Top-Ups must be used with Power T's to isolate power in each direction.
- Cable runs greater than 15' must have a Smart Extender/Receiver adapter and Power Top-Up at the end of each cable run before connecting lights.
- Use a voltmeter to measure the voltage at each end of a light run (see voltage thresholds below).

## End of Line Voltage Thresholds

End of line Voltage Threshold	Fixture Type
VEOL > 10 V	Globes
VEOL > 9 V	Triklit-style fixtures
VEOL > 8 V	Bistro Strings, Light Strings, Pebble Module Lights

## Measure End of Line Thresholds

Measure the end-of-line voltage to ensure light fixtures are receiving adequate power.



Figs. 23: Measuring end-of-line voltage

### Required Components

- Aurora Pro
- RGB LED fixture
- Voltmeter

### Method

1. Power Aurora Pro ON.
2. Measure voltage between the + (port 1) and - (port 3) terminals on the female connector at the end of the light run.
3. Ensure the measured voltage is greater than the thresholds listed above.
4. Remove the last section of lights if the voltage is too low.
5. Add a Power Top-Up (5 A Power Top-Up and a Power-T) and reconnect lights.
6. Retest the end-of-line voltage to ensure it meets the threshold.

## Approved Lamp Types

- Lamp type: LED 5050
- Lamp wattage: 1 W
- All RGB LED fixtures use LED 5050 as the lamp type.

### Warning:

Please contact Limbic Media to use Aurora Pro with fixtures other than those listed in the following table.

## Aurora Pro Power Fixture Limits Per Port

RGB Fixture Type	LEDs	IP Rating	Current (A)		Max Lights/Port* 23 °C (73 °F)
			Node	Fixture	
Mini Triklits	1	65	0.03		75
Triklit 100s	1	65	0.112		15
360° Triklits	1	65	0.03		75
Bistros and Light Strings	1	65	0.03		75
Flexible Strip	28/m	67	0.03		140 (5 m)
Pebble Module Light	1	65	0.03		75
Bullet Pixels	1	65	0.03		75
1' 360° Light Tube	24	65	0.02	0.36	6
2' 360° Light Tube	50	65	0.02	0.75	3
3' 360° Light Tube	74	65	0.02	1.11	2
4' 360° Light Tube	100	65	0.02	1.5	1
5' 360° Light Tube	124	65	0.02	1.86	1
250 mm Globes	20	65	0.0075	0.15	16
300 mm Globes	24	65	0.0083	0.20	12
350 mm Globes	28	65	0.0086	0.24	10
400 mm Globes	32	65	0.0094	0.300	8
500 mm Globes	32	65	0.0094	0.300	8

\*Without power top-ups.

## Wiring and Connection Specification

Specification Item	Value	Unit
Input wire cross-section	0.82	mm <sup>2</sup>
Input cable diameter	1.02	mm
	18	AWG
Output wire cross-section	0.52	mm <sup>2</sup>
Output cable diameter	0.81	mm
	20	AWG

## RGB LED Output Connectors Wiring Diagram

Male Connector



Female Connector



Figs. 24-25: RGB connector ends

## ELECTRICAL SAFETY

### Safety Hazards Identification and Warnings

The following identification system indicates hazard severity associated with Aurora Pro in accordance with ANSI Z535.4-2002:

#### **DANGER**

An imminently hazardous situation which will result in death or serious injury if not avoided.

#### **WARNING**

A potentially hazardous situation which could result in death or serious injury if not avoided.

#### **CAUTION**

A potentially hazardous situation which could result in minor or moderate injury or property damage if not avoided. Also alerts against unsafe practices.

**Ignoring a hazard voids any warranty.**

### Aurora Pro Safety Hazards

#### **WARNING**

Power must be disconnected before installing Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU or connecting light strands.

#### **WARNING**

Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU must be installed in accordance with relevant local electrical codes by certified professionals.

#### **WARNING**

Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU requires that ventilation openings are not obstructed or covered.

#### **WARNING**

Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU is for indoor use only. Outdoor enclosures are available.

#### **WARNING**

Read and fully understand installation instructions and safety labels for Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU before installing the system.

**WARNING**

The Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU must be installed without obstructing any ventilation openings.

**WARNING**

Ensure power cable is not damaged before connecting Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU to power.

**WARNING**

Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU is certified to FCC Class A standards. It may cause electromagnetic interference (EMI) in domestic (residential) environments. End users are required to take adequate measures in such a case.

**CAUTION**

Ensure that Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU is mounted correctly using the provided mounting brackets, and free of excessive vibrations.

**CAUTION**

Do not hot swap fixtures. Ensure Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU is disconnected from power before connecting or disconnecting fixtures.

**CAUTION**

Do not open, modify or alter Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU in any way.

**NOTE**

The instructions and precautions set forth in this user manual are not fully-inclusive, or pertinent to all installations as Limbic Media cannot anticipate all possible situations.

**Owner/User Responsibilities**

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU in compliance with all state and local laws, ordinances, and regulations.

**NOTE**

Aurora AUR-R2-P8D-00-US/AUR-R2-P8D-00-EU is shipped with a US IEC power cable.



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