

Pergola LED Lighting Kit

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE INSTALLING KIT.
SAVE THESE INSTRUCTIONS.

Safety:

For your safety, this kit must be wired in accordance to local electrical codes and ordinances. All work should be done by a qualified electrician.

WARNING:

Make sure the power is **OFF** from the electrical panel before starting installation or attempting any maintenance.

Failure to install and wire kit in accordance with the National Electrical Code (NEC), all applicable Federal, State, and Local electrical codes, as well as specific UL safety standards for the intended working environment (location/application), may cause serious personal injury or property damage. Knowledge and expertise of electrical systems is required for installing the aspectLED Pergola LED Lighting Kit.

When in doubt, contact a certified electrician.

If you have any questions during your installation, please feel free to contact our Customer Support team at support@aspectled.com or give us a call at 888.503.1317.



Prefer to follow our online instructions?



PRODUCTS INCLUDED IN THE KIT



Endless Series RGBW Waterproof Strip Lights

65 ft Kit: 2 Reels of 32.8 ft Strip
98 ft Kit: 3 Reels of 32.8 ft Strip

300 Watt Driver

Water Resistant Control Module Enclosure

Includes Casambi DMX Controller, 4 Channel DMX Decoder, + Quick Connection Wiring

Casambi Xpress (Optional)

Available in Black or White

32ft Long Plug-and-Play Extension Cord

65 ft Kit: 1 Cord | 98 ft Kit: 2 Cords

2ft Short Plug-and-Play Extension Cords (1 Cord/Strip)

Silicone Mounting Adhesive

Accessory Packs (1 per Strip)

10 Silicone Mounting Brackets
5 Silicone End Caps
1 Tube Silicone End Cap Sealant
20 Screws for Wood Mounting

TOOLS YOU'LL NEED

- Drill/Driver
- Mounting Hardware
- Scissors
- Tapered Drill Bit
- Phillips Screwdriver (for weather-proof box screw)
- *Optional: Wire Strippers & Additional Extension Cables (for larger installations)*

SAFETY FIRST!



An easy way to remember the essential safety steps is by using the acronym **S.A.F.E.T.Y.** – a quick guide to stay safe and prepared.

S: Shut off the power

A: Ask a licensed electrician if needed

F: Follow NEC guidelines

E: Equip yourself with proper PPE

T: Treat the wires as live

Y: You are responsible

BEFORE YOU BEGIN



Plan Your Layout

Determine where each LED strip will be placed and how long each run needs to be. If it's an aluminum pergola with gutters, the strip can be mounted along the side of the gutter. If it's a wooden pergola, mount the strip on the horizontal beams with the silicone mounting straps. Plan for direct home-run connections from each strip back to the controller, rather than daisy-chaining strips together.



Strip Run Limitations

RGBW strips have a maximum single run length of 32.8ft. **Do not connect one strip directly to another.** Instead, use the provided extension cable or order additional ones if needed. Connect directly back to the harness coming out of the control enclosure.



Environmental and Mounting Considerations

Mount the power supply and control box in a dry location—**never inside a gutter or low-lying area.** For best protection, mount the enclosure vertically with cables exiting downward.

Share Your Work!

Thank you for choosing us for your project—we're thrilled to be a part of it! Share your finished projects with us on social media for a chance to be featured!



LAYING OUT STRIPS



Connection Process

Use the pre-installed **plug-and-play** connectors for each strip. Simply align the pins between the male and female connectors, then twist the locking nut until secure. These waterproof connections require no field soldering, crimping, or heat shrink.



Extension Cables

Two 2 ft extension cables and one 32 ft extension cable are included in each kit for the 65 ft version. Three 2 ft extension cables come with the 98 ft kit. You can safely connect two extension cables in series, no more than 2 full length extension cables (32.8 ft of extension cables).



Avoid Voltage Drop

All strip connections should be **home-run back to the controller** using the provided connectors. This ensures consistent brightness and color, while avoiding voltage drop issues. Using the cables, strips, and supplies provided within the kit is a good way to prevent voltage drop.



Cutting & Resealing the Strip

Cut only at marked cut points. Use an **end cap** and apply **silicone** to seal the end and maintain waterproof integrity.

1. Fill the end cap with RTV Silicone.
2. Slide the end cap filled with RTV silicone over the strip light.
3. Let it set for 24 hours. Then, it will be re-waterproofed and ready to go!

INSTALLATION STEPS



1 Mount the Power Supply

1. Choose a location near a 120V outlet.
2. Securely mount the power supply in a beam chase, on a post, or in a remote dry area.



2 Connect the Power Supply to the Control Box

1. Open the enclosure by unscrewing the lid.
2. Loosen the cable gland and insert the red (positive) and black (negative) power leads through it.
3. Connect the leads to the corresponding WAGO connectors inside. Match red to red and black to black.
4. Flip the lever and tug to test that you have a secure connection.
5. Ensure vertical orientation of the enclosure with cable exits at the bottom. Mount the enclosure securely using the provided screw holes (these holes are underneath the holes for the lid). Then, return the lid and tighten the screws. The lid is keyed, meaning there's only one correct way for the lid to go on.



3 Connect the LED Strips

1. Plug each strip directly into the control box using the plug-and-play connectors.
2. Use the extension cable where needed to bridge distance from the controller to the strip location.
3. **DO NOT** daisy chain more than two 32.8ft extension cables.

For general information purposes only. Specifications, dimensions and construction not guaranteed and are subject to change without notice.

SETTING UP THE CASAMBI APP



For more detailed instructions, visit our [Casambi App Installation Guide](#).



1 Initial Setup

1. Power on the system. The LED strips should glow with a purplish-pink hue – this confirms the controller is active.
2. Download the Casambi app (free on iOS and Android).
3. Open the app. It will automatically detect the Casambi units in your kit.
4. Create a network and add the detected devices to your network.



2 Optional: Install Casambi Xpress Controller

1. Pair the Xpress controller with the Casambi module in the enclosure.
2. Mount the controller in a convenient location.



3 Key Features

1. Tap and hold on a luminaire to open control sliders.
2. Adjust brightness, color, and color temperature.
3. Save custom scenes and colors to your palette.
4. Multiple zones can be controlled independently if additional kits are used.

FINAL NOTES

- Ensure all connections are tight and sealed before powering on
- Always test the strip lights and app connection before finalizing mounting
- Experiencing Issues? Contact our team of experts for technical support, layout help, and more at **888-503-1317** or support@aspectled.com

