



**MANUAL**

# **INSTALLATION GUIDE**

revised 9.1.2022

# PLANNING OUT YOUR INSTALLATION:

- Do NOT connect the Pixel Strings while connected to power. Ensure the controller is unplugged before you connect any strings to the controller, or connect any additional Pixel Strings.
- Pixel Strings are directional, and must be connected with the arrows pointing AWAY from your controller.
- When planning out your installation, we recommend keeping the direction of the lights consistent ie: left to right.
- In areas such as peaks or dormers where a splitter is used, the direction of the segment can be reversed with our Pixel Mapping software. This will keep your patterns working properly and look great.



## STARTING POINT:

- This is where you are going to start installing the Pixel Strings and where the controller box will be installed. If possible, install the controller close to an electrical outlet.
- The best place to install your controller, will be an area that is close to a power outlet and the wifi router. The controller connects wirelessly, so wireless signal strength is important to the operation of your Pixel Lights.

## TRANSITIONS:

- When planning out your install there may be areas where you will transition around a corner, or from one roof line to another. When transitioning to another roof line such as a peak or gable an extension cable will be needed.
- If runs are beside each other, you can avoid using an extension cable by spacing your holes approximately 2" from the end of the gutter or channel. This will give you enough room to bridge the transition without having to make any cuts to your string.



## MAKING CONNECTIONS & USING EXTENSION CABLE:

- Connecting the first string to the controller, or joining different areas can be done by using our extension cables. A length of blank channel with no holes drilled into it can be used to cover the exposed length of cable. This keeps the installation neat, tidy and hidden from view.
- When running extension cables, we recommend keeping the length under 10'. If the distance is longer, then a ghost pixel is required every 10'. The better option to join two separate areas is to use another controller. Additional controllers automatically sync with the main controller, or can be set to run independently.

## DRILLING THE HOLES:

- We recommend installing our Pixel Strings with 9" spacing, though you can adjust how you want with a maximum distance of 9.25". Start with your first hole 2" from the end of the length of channel, then mark out the following holes every 9" with our spacing template. Careful planning at this stage will ensure your lights look consistent and your patterns display correctly.
- First use a smaller 1/8" bit to drill pilot holes, then follow with our 3/8" bit, to cut clean and precise holes for installing the lights. Our specialized bit cuts burr-free holes that will save you time and make your install easier.



## INSTALLING THE LIGHTS:

- After you have drilled the holes, you're ready to install the lights.
- Each light has angled tabs designed to align the light with the hole. Visually line up the light and then press firmly with both hands until the light pops in and you hear it "click".
- Our lights can be removed and installed again, without any problems. If you happen to bend a tab by accident or it was bent during shipping – simply bend it back into shape.
- Our lights are designed to be durable enough to handle the weather all year-long, and can be "clicked" in & out without causing them any damage.



## USING A SPLITTER:

- Need to run the Pixel String in 2 or 3 different directions? No problem, our splitter lets you branch off in multiple directions without having to run unnecessary extension cables and tie back into the main line.
- Our splitter configuration guide helps to quickly and easily set the pixel quantity for each branch. Need to use more than one splitter? No problem, you can use as many as you need wherever you need them.

## ENDING POINT:

- When you come to the end and you've installed and tested the lights, it's time to terminate the string.
- Make sure the power is disconnected before making a cut.
- To seal the end and make it waterproof you can use a silicone filled marrette or glue lined heat shrink. This will make sure it is sealed and protected from the elements.





# PixelLights



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