

Installation tutorial for embossed light panels

Step 1: Preparation

1. Prepare the Lithophane LED Backlight Board Kit according to the size of the printed frame. This guide uses a 4-piece kit as an example (As shown in Figure 1).

Note: When printing the frame, small clips and support connections inside the frame might have overhangs. Trim these off to ensure smooth installation. (As shown in Figure 2&3)

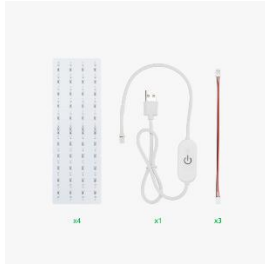


Figure 1



Figure 2



Figure 3 small clips on the stand

Step 2: Install the Support Stand

1. Ensure the grooved side of the nut is facing up, and insert the printed tool into the nut's groove, pressing down to secure it firmly.

2. Insert the support stand from the back of the frame, and use the printed tool to rotate the nut clockwise to secure it.

Note: The 3D file includes a special tool for securing the nut. (As shown in Figure 4)



Figure 4

Step 3: Connect the LED Backlight Boards

1. Flip the LED backlight boards to the back and arrange them neatly in order, ensuring the protruding side of the PH2.0 Power Connection Cable interface is facing up, then connect the boards. (As shown in Figure 5)

Note:

- Make My Lithophane supports three frame sizes, composed of 2, 3, or 4 boards. Each board has two parallel power sockets, functioning as both input and output ports. Ensure all boards are connected and one board is linked to the USB power cable. Adjust the connection method as needed (refer to the recommended connection methods in Figure 6).
- The two ends of the PH2.0 Power Connection Cable are identical and can be used interchangeably in any port.
- Do not connect the USB power cable to the LED backlight board at this step.

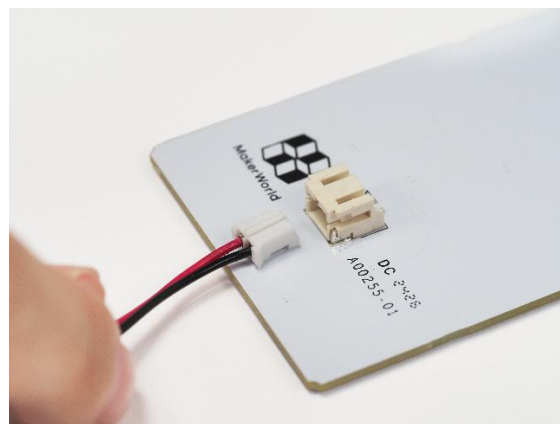


Figure 5



Figure 6 The recommended connection methods for different frame sizes

Step 4: Connect the Power Cable

- Depending on the orientation of your lithophane (vertical or horizontal), thread the USB power cable through the reserved hole in the frame.
- Connect the PH2.0 end of the USB power cable to the LED backlight board (the frame has two holes; choose the appropriate hole based on the orientation of your lithophane). (As shown in Figure 7)

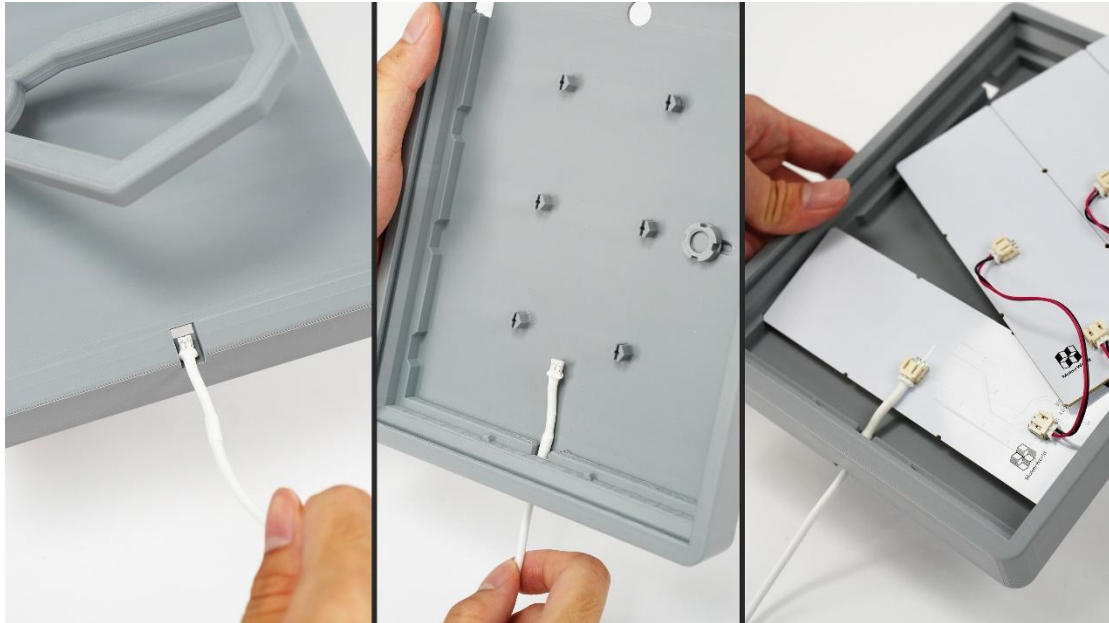


Figure 7

Step 5: Secure the LED Backlight Boards

1. Adjust the position of the connection cables at the bottom of the LED backlight boards to ensure they lay flat.
2. Clip the LED backlight boards under the small clips inside the frame edges and lay them flat in the frame. (As shown in Figure 8)
3. Insert the printed plugs (As shown in Figure 9) into the round holes between the LED backlight boards to secure them. (As shown in Figure 10)

Note

- a) The number of plugs required depends on the number of boards; four boards require six plugs.
- b) If the boards do not lay flat, check if the internal supports of the frame are completely removed or if the connection cables are neatly placed.

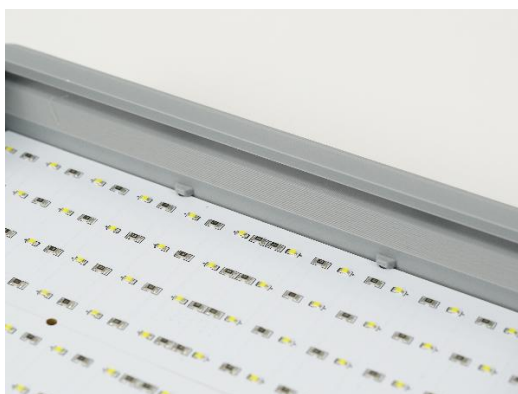


Figure 8



Figure 9

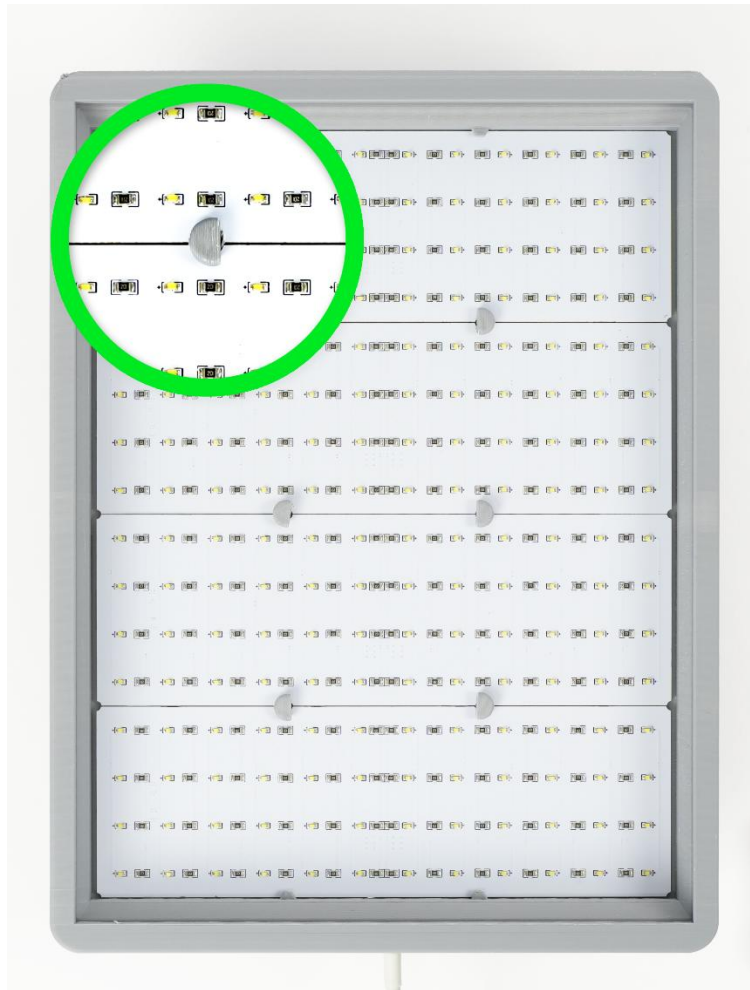


Figure 10

Step 6: Install the Lithophane

1. Gently open the frame's insertion slot and insert the printed lithophane into the frame.
(As shown in Figure 11&12)



Figure 11



Figure 12

Step 7: Power Up

1. Connect the power, touch the switch to light up the lithophane. Long press the switch to adjust the brightness. (As shown in Figure 13)

