Lithophane frame

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VIEW IN BROWSER

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Summary

A frame for Lithophanes with a battery compartment

Household > Home Decor

Tags: light frame holder picture led lithophane photograph stand present pictureframe displaystand glowing lithophanelight lithophanestand lithophanie lithophaneframe lithophaneholder framework lithophanes lithophanebox

General Information

I wanted an easy to print and nice looking frame for some Lithophane's I have. Furthermore, it should use cheap lights with batteries. I couldn't find something I liked so I drew my own in Fusion360.

Parts and Tool

The Lights I used BXROIU 2 x 20er Micro LED

I used the Flat Lithophane Maker to create the Lithophane.

Filament Sunlu PLA+ white and Sunlu Wood

The settings I used

Lithophane Resolution (mm/pixel)	0,2
Width (mm)	170
Height (mm)	120
Depth (mm)	6
Base Height (mm)	3
Overhang Angle (deg)	60
Maximum Thickness (mm)	2,4
Minimum Thickness (mm)	0,6

The Width, Height and Depth are **important**. You need to use the same values as above or change the frame model. The other settings depend on the printer you are using. I used a modified Artillery Sidewinder X1 to print this model.

My print settings

Lithophane:

- 0,4mm Nozzle
- 0,2mm layer Hight
- 4 perimeter
- 100% infill

Frame:

- 0,6mm Nozzle
- 0,3mm layer Hight
- 3 perimeter
- 30% infill

Assembly

It's very simple:

1. Thread the fairy lights through the hole on the back.
2. Bend the fairy lights so that they are nicely wrapped in the groove. Fix with hot glue if necessary.
3. Simply place the Lithophane in the slot provided.

If you have any questions don't hesitate to ask me in the comments.

Thanks for downloading and Happy Holidays!

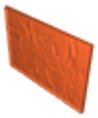
Model files

lithophane_frame-v5.stl

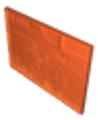
lithophane_frame-v5.step

lithophane_frame-v5.obj

lithophane_frame-v5.f3d



lithophane_pic_1.stl



lithophane_pic_2.stl

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