



Lithophane Solar System (E27)



pongant

[VIEW IN BROWSER](#)

updated 8. 4. 2022 | published 27. 3. 2022

Summary

Sensible-sized lithophane planets of the solar system, with remixed bajonet-lock adapter for E27 sockets.



14.37 hrs



3 pcs



0.20 mm



0.40 mm



PLA



104 g



Prusa MINI /
MINI+

[Learning](#) > [Physics & Astronomy](#)

Tags: [lamp](#) [lithophane](#) [space](#) [moon](#) [astronomy](#) [jupiter](#)
[mars](#) [sun](#) [venus](#) [globe](#)

These models are remixed from Frank Dreschner's "Designer Lithophane Moon Lamp" [1], and raTmoles' lithophane solar system [2]. I extracted the bajonet adapter from Dreschner's original model and fitted it to the respective 3D model.

Globes have a diameter of ca. 120 mm, which makes them quick to print and impressive enough for a birthday present.

For the lamp stand I printed the uploaded model and inserted 13 cm (ø 4.6 mm) iron nails as legs (tip-first). If you use cyanoacrylate glue, these legs

are much more sturdy than the original ones. Also, the mix of materials provides a high-quality look to the whole assembly.

The globes are printed best at 0.2mm resolution with 4 margins, at 100% infill. No supports needed. The socket adapter is printed at the same settings, but with 10-15% infill.

Tip: Put a diffuser over the lamp. I simply used painted transparent paper. If you use 2-4W LEDs, it looks really impressive.

Note

I'll add more models when I've got more time. I tried:

- Moon
- Sun
- Jupiter
- Mars
- Venus

Details (Globes)

General

Diameter	11-12 cm
Printing Times	8-14 h

Print Settings

Filament	FormFutura ReForm rPLA (white)
Printer	Prusa Mini +
Slicer	PrusaSlicer 2.4.0
Preset	0.2 mm QUALITY
Infill	100 %
Margins	4
Supports	none

Sources

[1] <https://www.prusaprinters.org/prints/23859-designer-lithophane-moon-lamp>

[2] <https://github.com/ratmole/3dSolarLithophane>

Edits

27.03.2022: Added adapter, Moon, and Sun.

28.03.2022: Added Mars, Venus, and Jupiter. Corrected Moon-model (.stl).

This remix is based on



Designer Lithophane Moon Lamp

by Frank Deschner

Model files



sol_remixed.stl



stand_remixed_holes.stl



jupiter_remixed.stl



moon_remixed.stl



venus_remixed.stl



mars_remixed.stl

Print files



stand_remixed_holes_02mm_pla_mini_58m.gcode

PLA 0.40 mm 0.20 mm 0.97 hrs 10 g Prusa MINI / MINI+



sol_remixed_02mm_pla_mini_13h24m.gcode

PLA 0.40 mm 0.20 mm 13.40 hrs 94 g Prusa MINI / MINI+



moon_remixed_02mm_pla_mini_14h27m.gcode

PLA 0.40 mm 0.20 mm 14.45 hrs 86 g Prusa MINI / MINI+

License

This work is licensed under a
Creative Commons (4.0 International License)



Attribution—Noncommercial—Share Alike

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition