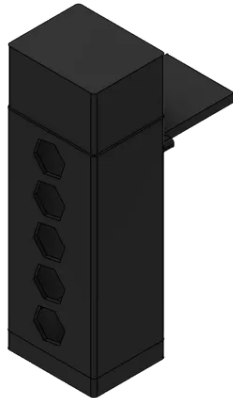


3D MODEL ONLY



Night Light Glasses Case: Collapsible Night Light



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[VIEW IN BROWSER](#)

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Summary

This is a glasses case that doubles as a night light.

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This is a glasses case that doubles as a night light. The slim body holds your glasses. A fold-out light flap with an 8-LED ring lets it work as a bedside lamp. The flap folds away when you aren't using the light. It consist of : a hinged flap, a lidded storage body, and a separate battery compartment. All of it can be 3D printed.

Overall size: about $5.5 \times 9.5 \times 20$ cm, with the flap extended and the battery area attached.

Parts (print all independently)

1. Main Body: the tall case, about $5.5 \times 5 \times 15$ cm. Your glasses go inside. The front has a column of five hexagonal windows, and the back has small holding features for the light flap. A slot at the back passes the LED wiring down into the case.
2. Main Body Lid: a sleeve-style cap, about $5.5 \times 4.5 \times 3.3$ cm, that slides over the top of the case.
3. Battery Area Lid: a shallow open tray, about $5.5 \times 4.5 \times 1$ cm. It holds the LiPo battery and the switch, and it connects to the case through the wiring slot.

4. Light Flap: a thin plate, about $4.8 \times 5 \times 0.5$ cm, that fits into the holding features on the back of the body. It is built around a WS2812B 8-LED ring (about 2.7 cm across), which is glued to its underside so the light shines downward.

Bill of Materials

Item	Qty	Notes
WS2812B 8-LED ring (white)	1	About 27 mm outer diameter
LiPo battery	1	Any battery that fits the battery compartment
Switch	1	Any switch works
Hookup wire	-	Enough to run from the flap to the battery area
Glue	-	To attach the LED ring to the flap

Assembly

1. Print all four parts separately.
2. Glue the WS2812B ring to the underside of the light flap.
3. Solder the wires to the ring.
4. Feed the wires through the slot on the back of the main body, down into the case, and through to the battery compartment.
5. Connect the wires to the switch and the LiPo battery.
6. Fit the light flap into the holding features at the back of the body.
7. Place the battery and switch in the battery area and close it with the Battery Area Lid.
8. Slide the Main Body Lid onto the top of the case.

Notes

- The flap is designed specifically for the WS2812B 8-LED ring. Other rings may not fit.

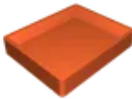
Model files



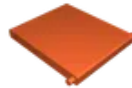
main-body.step



main-body-lid.step



battery-cover.step



light-flap.step

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