

My Balsa & Glass Workshop

Black Hole Lamp

3D Print/Assembly Description

As of 16 September 2026

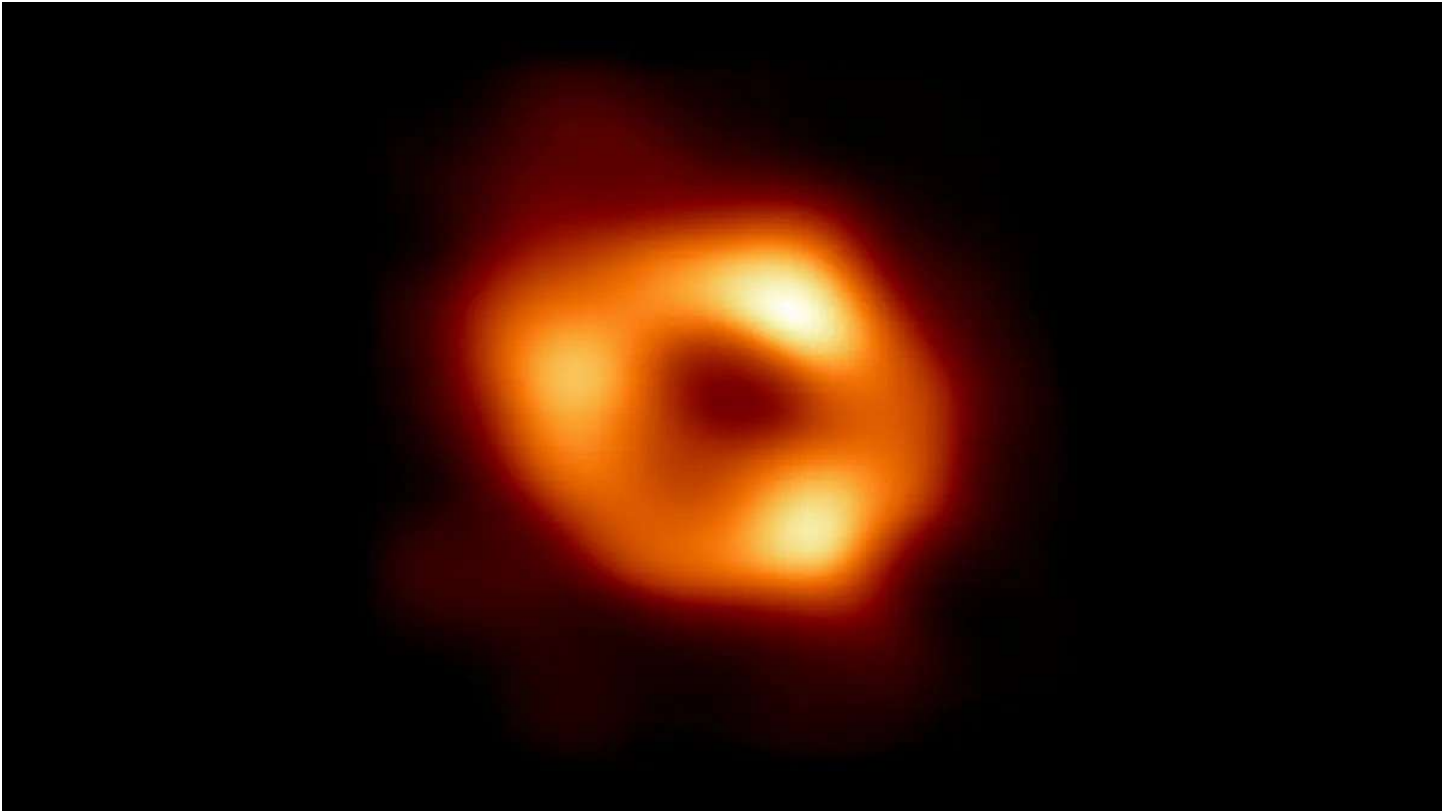
While looking for some backup info on one of my projects, I came across a 3D model that I thought was really interesting and would deck out my computer station (where I work each morning on this website coding) just great. I found the "**Black Hole Lamp**" created by a modeler named "**NAM_3**" (shown below) which you can download for **free** from the thingivers website (<https://www.thingiverse.com/thing:7398551/>).

After contacting NAM_3 about a remix of his model by "**Geoschatter**" that put a USB port in the back of the Pedestal part (shown below), he responded with a link to download the remixed STL files. (<https://www.thingiverse.com/thing:7402748/>).



Source of Images: thingiverse.com

This is a light up display lamp that looks like a Black Hole. Shown below is the most famous image of Sagittarius A*, the supermassive Black Hole at the center of our Galaxy. It was captured by the Event Horizon Telescope. Credit: EHT Collaboration



The Black Hole in Christopher Nolan's science fiction film *Interstellar* is in the next image below.



(<https://www.amazon.com/dp/BODP2RT1GW?lv=shuf&channelId=500&plpRedirect=mhFallback&th>)

This model has four parts that will need to be glued together using CA glue or 3D Gloop. Make sure the parts are properly aligned with the light securely in place with the adhesive pad before attempting to glue everything together. Precise gluing is required.

"Front" and "Back"

-100% infill

- optional: enable supports

-Black filament

-100% infill

-enable supports

" Pedestal"

-White filament

-5 to 15% infill

-3 wall loops

I started my prep for printing by importing the four STL parts into Creality Print 7.2. To ensure the parts had the strength needed for a table lamp I decided to use three colors (White, Black, Transparent) of Creality CR-PETG filaments. I selected the **"0.2mm Standard @Creality Ender-3 V3 0.4mm nozzle"** printer profile and made the designers recommended adjustments stated above for the various parts in this project. My final Creality Print set up can be seen in the image below.



Since I already had a spool of **Black** CR-PETG filament loaded in my printer for another project, I started this project with plate #3, the two Black Hole "Star" parts. These two parts took 1 hr. 13 mins. to print and use 23 grams of **Black** filament. I next printed plate #'s one and two, the Front and Back of the Black Hole "accretion disk" using **Transparent** CR-PETG. Printing time for the two parts was 6 hrs. 50 mins. and used 155 grams of **Transparent** filament. I then finished my printing with plate #4, the Pedestal part, which took 2 hrs. 45 mins. and used 67 grams of **White** filament. All five 3D printed parts are shown in the next image below.



"Black Hole Lamp" Assembly

The first step in my assembly of the "Black Hole Lamp" was to mount the LED Lamp (<https://www.amazon.com/dp/BODP2RT1GW?lv=shuf&channelId=500&plpRedirect=mhFallback&th=1>) inside the accretion disk. I attached the LED to the ring inside the Front disk. Once that was secured I used CA to glue the two disk parts together routing the lamp cord out through the hole in the Back part. **Note** - the end of the LED cord must be cut off to route the cable through the 5mm holes in the model, and to connect the cable to the LED plug (<https://>) that will be mounted in the back of the Pedestal.

While trying to join the two disk halves I ran into a couple problems. First, I could not get the tips of both disk halves to meet, even after sanding both halves flat surfaces in the center regions, Second, I was not really satisfied with the way the Transparent filament parts looked because they showed all the seams. So, I decided to reprint the two accretion disk halves using some **White** Creality Hyper-PLA.

Next, I CA glued the two Black Hole "Star" parts to the Front Disk part. After routing the power cable down through the Pedestal, I CA glued the lamp to the pedestal. The last step in the lamp assembly was to connect and install the USB-C connector (https://www.amazon.com/dp/B0CH9N6CV8?ref=ppx_yo2ov_dt_b_fed_asin_title&th=1) into the back of the Pedestal. Using a USB cable (https://www.amazon.com/dp/B01GGKY01I?ref=ppx_yo2ov_dt_b_fed_asin_title&th=1), I connected the lamp to my computer desk backup power supply, and the final results are shown in the image below.

