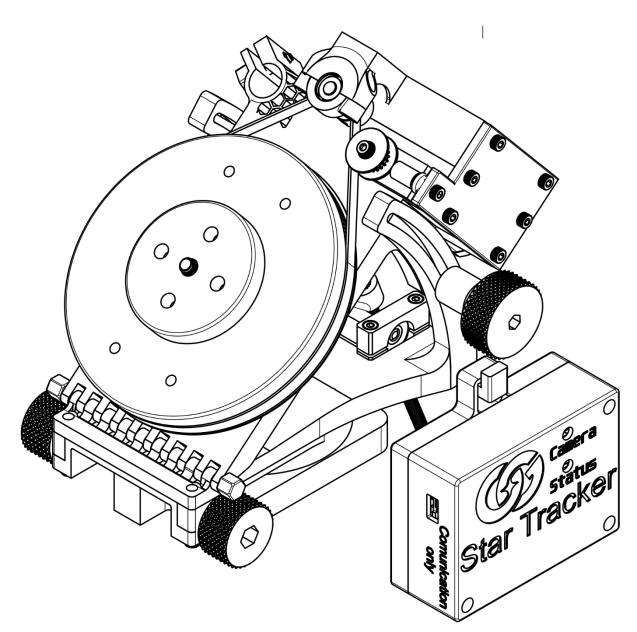
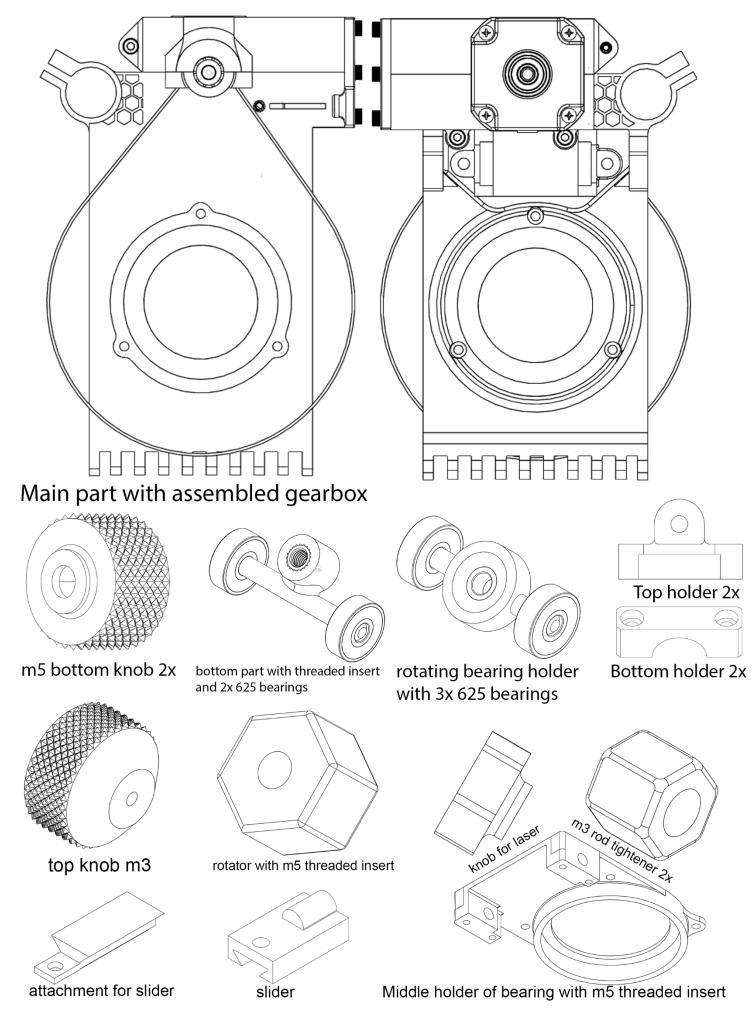
Instruction manual

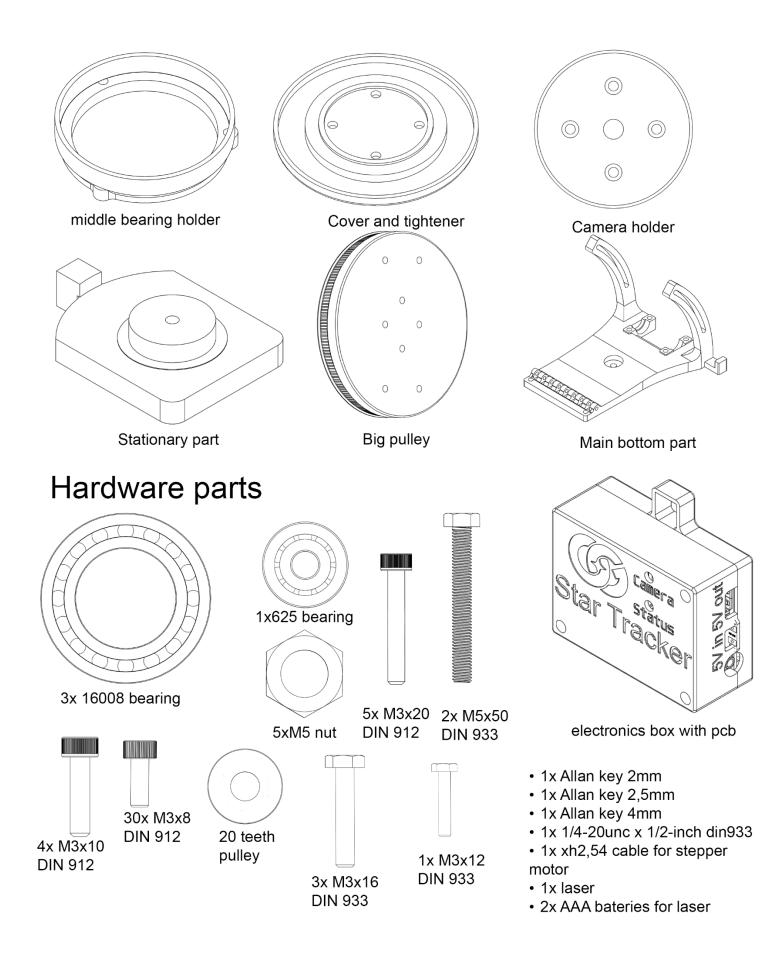


star tracker



List of 3d printed parts

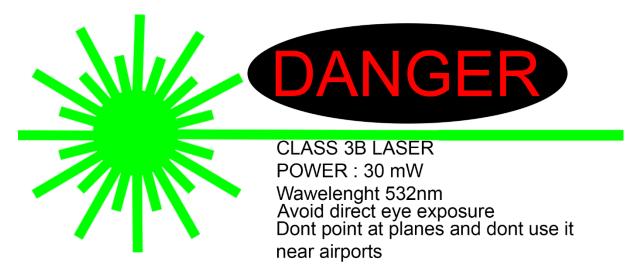




Important



Do not leave the star tracker in direct sun or in temperatures over 45 °C.



In cold weather (under 0°C) the laser will not shine visible light. It will be shining very dangerous invisible infrared light. In that case you will need to warm the laser with hand or lens dew heater.

First power off the mount before disconnecting stepper motor. It might destroy the stepper motor driver.

Don't connect stepper motor when the electronics is powered on. It might destroy the stepper motor driver.

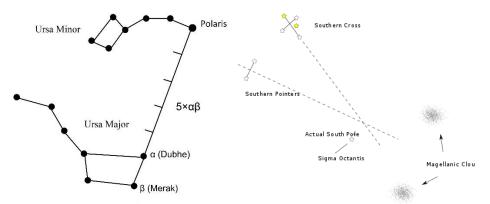
Assembly



- 1. Start from 2:50 because the mount is partially assembled
- 2. In second video the middle bearing holder is bigger because it's a newer version
- 3. You will use instead of m5x16 m5x25.
- 4. In second video around 0:15 you will insert here a big bearing (16008)
- 5. In second video around 1:58 you will use m3x10 screws instead of m3x12

Quick setup

- 1. Level the tripod
- 2. Attach the star tracker to the tripod and place the tripod on firm surface.
- 3. Connect stepper motor to the electronics box (RA port) before powering on.
- 4. Point at Polaris or south celestial pole for polar alignment.



- 5. Focus the lens with bahtinov mask (or without) on bright star.
- 6. Use ball head to find object you would like to shoot.
- 7. Take lights frames you can check a great tutorial on : <u>https://clarkvision.com/articles/astrophotography-made-simple/</u>
- 8. Power off the mount.
- 9. Disconnect stepper motor now!
- 10.Stack and edit the final picture.

Web app usage

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Zapnuto			
Aktuální síť			
(((-	OG star tracker Připojeno bez internetu / Nezabezpečeno	③ 鐐	
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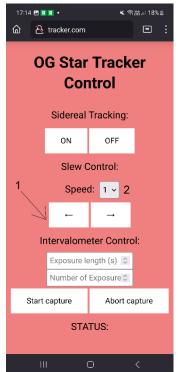
First power on the tracker with usb-c cable that is connected to power bank or phone charger. After that you will see green led diode turn on which means that the tracker powered on.

After tha you will conect to the OG star tracker wifi. It might say that this wifi has no internet connection, you will ignore this.

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After connecting to the

Wi-Fi you will open an browser of your choice and go to the address tracker.com. If you can't open the address you can try to open it in anonymous mode.



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Vyhledání na Googlu		
Q tracker.com		
Návrhy od Firefoxu		
tracker.com/ http://tracker.com/		

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After you have opened the website, you can control the mount from here.

1. With these buttons you can move with the RA axis.

2. Here you can change the speed of the movement.

When you will be moving with the RA axis the green diode would star blinking.

To use intervalometer you need to change the exposure length in manual mode on your camera to bulb.

When the camera will be taking exposures with intervalometer the red diode will turn on. At that time

you can't touch the tracker or camera.

Debugging:

The stepper motor is making noises or its not moving.

Then you need to try more powerful power source. Because most likely yours

Power source its not powerful enough. (Yours power bank might be empty or your phone charger is too weak).

If you would have some troubles, you can write me an email: ogstartracker@gmail.com

Or you can ask on our discord server. (It's faster than email)



Discord link

Enjoy

Technical specifications

Payload(MAX)	3kg	
Gear reduction	101.25	
Body dimension	200mm x 160mm x 115mm	
Latitude adjustment range	0-25°, 25°-50°, 45°-65°.	
AZ adjustment range	50°	
Warranty	2 years	
Periodic error (10min)	17" arc-seconds	
Wi-Fi control	yes	
Operation Temperature	-15°-35°C	
Tripod connection	¼-20 unc screw	
Ball head connection	¼-20 unc screw (you can use ¼-20 to 3/8	
	adapter)	
Intervalometer port	Yes 2,5mm jack port	
Power connector	Usb-c (5V)	
Body material	Pla plastic	
Weight	1,5kg	
Motor drive	DC stepper motor 0,9°	