



SUZHOU ZWO CO., LTD.



ZWO 滤镜轮传感器清洁参考手册

ZWO clean the sensor of EFW reference manual

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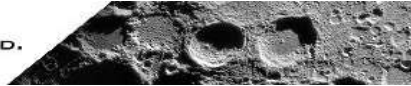


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Chapter 1: Sensor of EFW

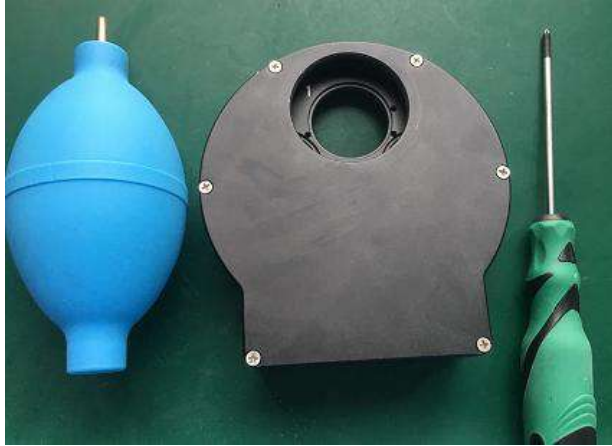
We use the light sensor inside the EFW. The light sensor is used to determine the position of the holes. Therefore, if the light sensor has interference, the filter wheel will not work properly. Usually, the dust is the most common cause.



Chapter 2: How to make it

2.1 Prepare the tools.

An air blower and the screwdriver.



2.2 Open the back cover.

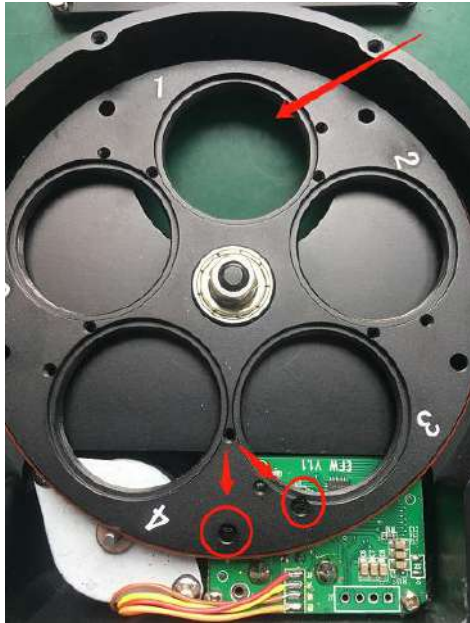
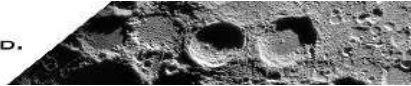
Unscrew the 6 screws on the cover in counterclockwise.



2.3 Find the light sensor.

Move the wheel to the position 1 by hand. Near position 4, where the wheel overlaps with the board, there are two holes. Below the 2 small holes, there are 2 light sensors.

Rotate the position 1 a little to the right, and you can see one of the light sensors in picture 4.



picture 3



picture 4

2.3 Clean it with an air blower.

Aim the air blower at the two sensors and clean them up.



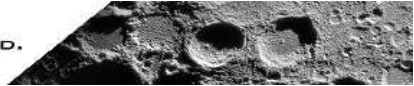
2.4 Further step (optional)

For newer EFW, the filter wheel can also be removed for cleaning.

(For earlier versions of the EFW, the installation of the wheel is very complicated, so removing the filter wheel is forbidden.)

2.4.1 Can the wheel of my EFW be removed?

Three screws in the center of the wheel determine whether it can be removed.

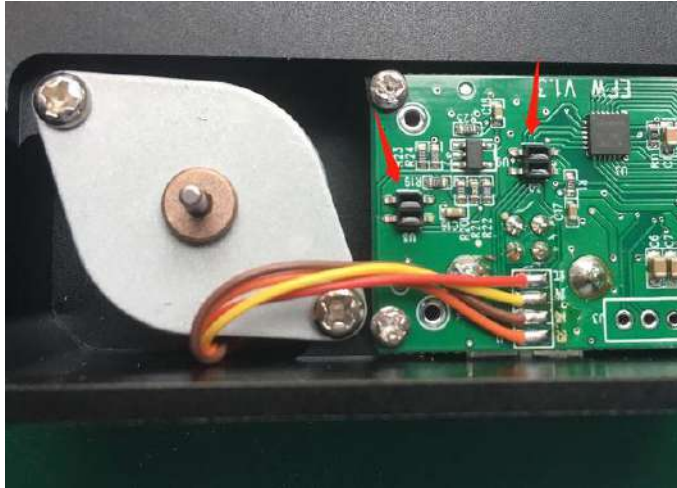
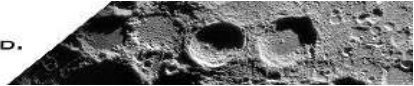


2.4.2 Three screws were unscrewed counterclockwise, take the wheel up.



2.4.3 Clean the light sensor and check the rubber ring on the wheel.

If the dust on the light sensor could not be cleaned by the air blower, you can also use a cotton swab dipped in alcohol to clean it.

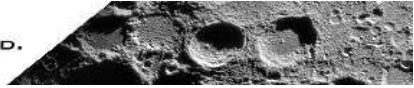


For the rubber ring, usually, there is no need to take it off from the wheel. Check its appearance, no breaks, cracks, or dents then it's good. Below shows you what a good rubber ring looks like.





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Chapter 3: After done

Please follow the reverse steps to install them back.



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Chapter 4: Get support

Please send email to info@zwoptical.com for more information.