

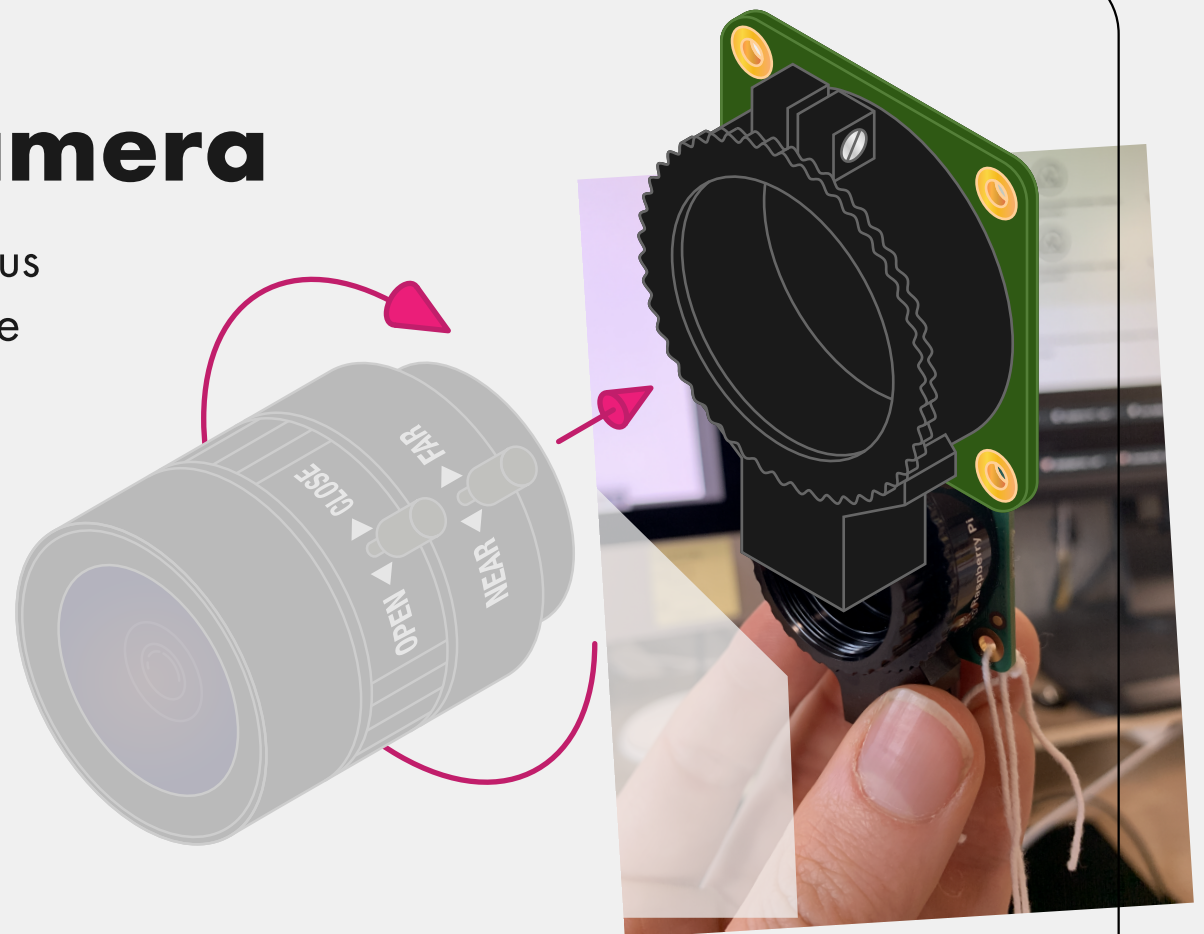
## 6mm CS-mount lens

A low-cost 6mm lens is available for the High Quality Camera. This lens is suitable for basic photography. It can also be used for macro photography because it can focus objects at very short distances.



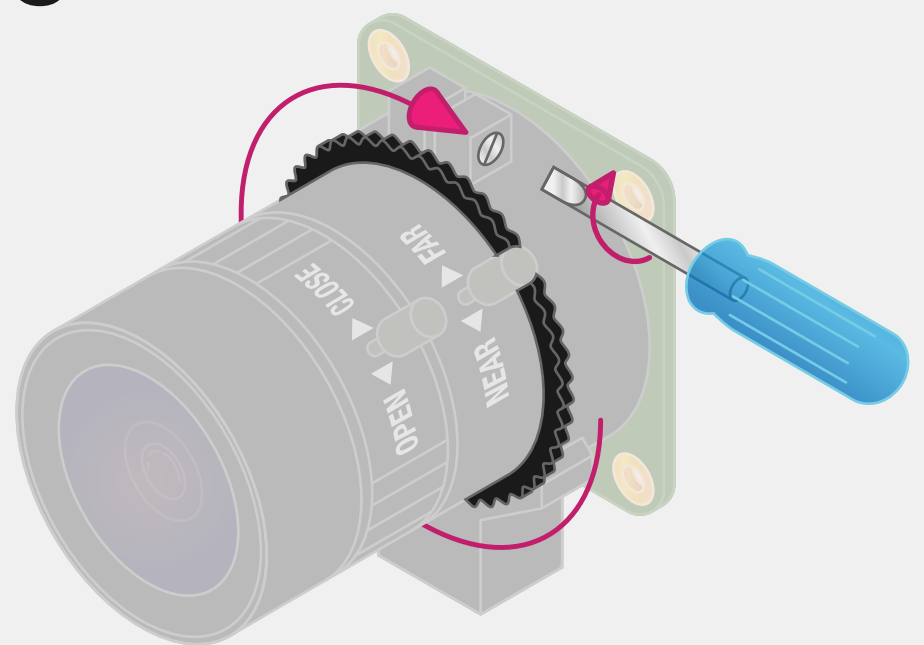
## Fitting the lens to the camera

The lens is a CS-mount device, so it has a short back focus and does not need the C-CS adapter that comes with the High Quality Camera. This lens will not focus properly if the adapter ring is fitted, so identify this part (see diagram at <http://rpf.io/hqcam>) and, if necessary, remove it before continuing. Then rotate the lens clockwise all the way into the back focus adjustment ring.



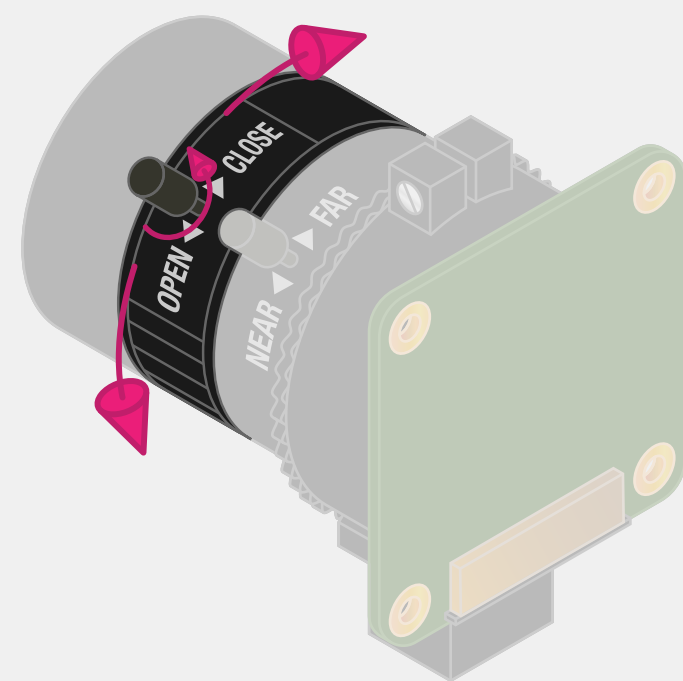
## Back focus adjustment ring and lock screw

The back focus adjustment ring should be screwed in fully for the shortest possible back-focal length. Use the back focus lock screw to make sure it does not move out of this position when adjusting the aperture or focus.



## Aperture

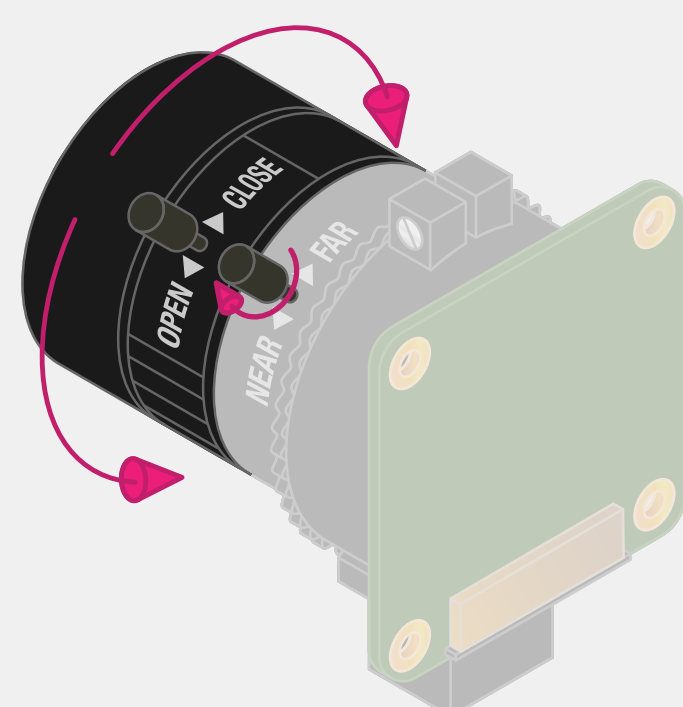
To adjust the aperture, hold the camera with the lens facing away from you. Turn the middle ring while holding the outer ring, furthest from the camera, steady. Turn clockwise to close the aperture and reduce image brightness. Turn anti-clockwise to open the aperture. Once you are happy with the light level, tighten the screw on the side of the lens to lock the aperture.



## Focus

First, lock the inner focus ring (labelled 'NEAR ◀ ▶ FAR') in position by tightening its screw. Now hold the camera with the lens facing away from you. Hold the outer two rings of the lens and turn them both clockwise until the image comes into focus – it will take four or five whole turns.

To adjust focus, turn the outer two rings clockwise to focus on a nearby object. Turn them anti-clockwise to focus on a distant object. You may find you need to adjust the aperture again after this.



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