

Version 2 Flat Lens Housing Instructions

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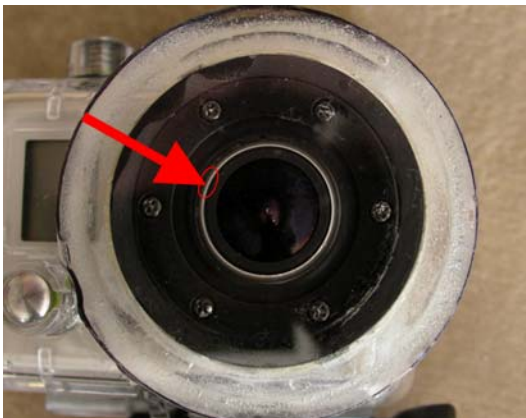


Instructions:

There's really no special instructions with this housing. Shoot as you normally would. **Preferred resolution is 1080p** for razor sharp underwater video from edge to edge. 720p/wvga will be slightly fuzzy at the edges. Stills and 960p will have slight vignetting because they are not widescreen formats and see more at top and bottom. The vignetting is minimal. The flat lens is hand-glued onto the housing, so it may not look pretty, but you'll get the shots you want.

Suggestions:

We strongly suggest you use a black sharpie marker on the **small 1mm curved housing** area surrounding the camera curved lens. This is because you want the entire area that the inside of the flat lens facing towards the front to be black. Otherwise, in certain circumstances, you will get internal reflections inside the flat lens. You only need to paint the tiny curved area immediately around the front of the lens that faces forward that you see when you put the camera inside the housing.



Here's what may happen if you don't darken that small area around the camera lens. The white ring is caused by the light area round the camera lens reflecting into the flat lens.

Details:

In order to get the flat lens as close to the housing as possible (to avoid serious vignetting), we removed the GoPro underwater housing curved lens. To our surprise, the angle became much wider when doing that. With the underwater housing lens in place it is 165 degree angle of view. Without the lens it is 170 degrees, a significant increase in how much you see. So get even closer to the subject with this flat lens housing. It appears that you can get closer underwater to objects than on land. Tentative testing shows about 6" to 8" from the flat lens is acceptable focus underwater.

We do not recommend extended use on land with this flat lens housing for a couple reasons. The flat lens is very susceptible to scratches because it has no protective barrier around it like a diving mask. Also the flat lens does not repel water, dirt, mud as easily as a curved lens. The below picture was taken at about 35mph and you see the rain just clings to the flat lens.



There are a few reasons why we didn't put a protective ring around the lens. At 170 degrees, this lens sees ALL. When we put a ring of any significant thickness on the flat lens, the camera lens could see it. The other reason why we didn't add a ring is for water drainage. When you come up out of the water, you want the water on the lens to drain off quickly, if there were a ring, the water would pool up at the bottom and the camera would see it.

MAINTENANCE AND CARE:

HD Hero camera: Make sure the solid back with the O-Ring is on the camera housing back. Do NOT use the back with the two openings.

Flat Lens: If you have minor scratches on the flat lens, you won't see them underwater. The water will fill in the gaps. If you have a significant scratch, you'll need to buy a plexiglass/acrylic scratch remover solution. For the inside of the flat lens, use a bent Q-tip to clean inside the flat lens. If there is dirt, dust, use a can of air (keep the can upright while using). We recommend Rain-X or similar on the outside of the flat lens.

Weights: You shouldn't need weights for this camera as it does not float (in fresh water). If you want to add weights, self-adhesive car wheel weights should work well on the outside left or right sides of the housing.

Anti-Fog: We kept the front flat lens area open to the rest of the housing in order to let it 'breathe' to reduce fogging. But you will still need to apply anti-fog inside the flat lens and should also use GoPro anti-fog strips.

Depth: This housing has been pressure chamber testing to 150'. However, Eye Of Mine can only guarantee it to be leak-proof up to 100' **. Beyond that is a significant amount of pressure and we have not done any kind of extended testing beyond 100'.

** Replacement is limited to replacing the housing only.

Eye Of Mine is not responsible for damage, injury or loss of equipment from the use of this housing. Use at your own risk. We recommend testing without the camera first at any significant depths.