



Entaniya Fisheye HAL 220 PL

User Guide

Printed in Japan

Before Using

This lens is for digital cameras with PL Mount. The product is a manual focus lens without electronic contact. Please check the manual of the camera you are using for camera specific details. Please notice that when using the lens, some shooting modes may be unusable or function incorrectly.

Specifications

Mount Type	PL	Weight	1.5kg (including the cap)
Focal Length	6.14mm~ 8.03mm	* Zoom spacer ring and support ring are not included.	
Angle of View	220°	Zoom spacer ring : 280g (the total weight of 14 rings)	
Lens Groups / Elements	12-17	Support ring : 34g	
T-number	T2.9 ~ T16		
Image Size	φ22.6mm-29.8mm		
Country of production	Made in Japan (excluding the cap)		

* Since the lens has been designed so that the rear part is sticking out, the bottom part of the lens and the filter of the camera might interfere with each other if you are using a camera that has a filter in front of the sensor (this is occurs particularly often when using a zoom spacer ring that has a focal length of 7mm or less). In case you are using a zoom spacer ring, please check the distance from the camera's sensor to the filter and the distance from the lens bottom before installing the lens.

Notes on shooting

- Since this lens has extremely wide angle of view, light sources such as the sun are much brighter than normally and can easily cause flare or ghosting. To prevent this from happening, we recommend you to avoid shooting in places with strong sunlight and for example shooting in the shade to minimize the possibility of flare and ghosting.
- As the lens is an interchangeable lens, there may be situations where the center of the image circle and the center of the actual shooting screen are out of sync. Similarly, vignetting of the four corners of the photo may be unequal.
- Exposure level depends on the functions of the camera used. Depending on the model, there is a possibility that suitable exposure level can't be achieved. Also, since the angle of view is extremely wide and the brightness range of the photographic subject is also wide, we recommend you to always try shooting at many different exposure levels.

Tips for extending the lens longevity

- Do not touch the lens surface directly.
- If any dust or dirt sticks to the lens surface, either remove it with an air blower or gently wipe the lens with a clean piece of cloth.
- In case there are fingerprints or grease stains on the lens, please use a cleaning cloth exclusively meant for lens cleaning. Dip the cloth into lens cleaning solution and gently rub the lens surface, starting from the center of the lens. Do not use cleaners containing gasoline, paint thinner or other organic solvents.

Warranty and after-sales service

- Warranty period is 1 year from the shipping date.
- As a principle, we will charge for repair after the warranty has expired. You are also responsible for paying for any shipping costs when sending the product to us.
- If the damage is due to careless treatment of the product (e.g. dropping the lens, physical impacts, getting the lens wet, sand or mud stuck on the lens, water/sand/mud inside the lens) or inadequate maintenance of the lens (such as mold grown onto the lens), it's possible that we will charge for the repair. There are also cases where the lens cannot be repaired.
- We cannot compensate for any incidental problems

Parts included

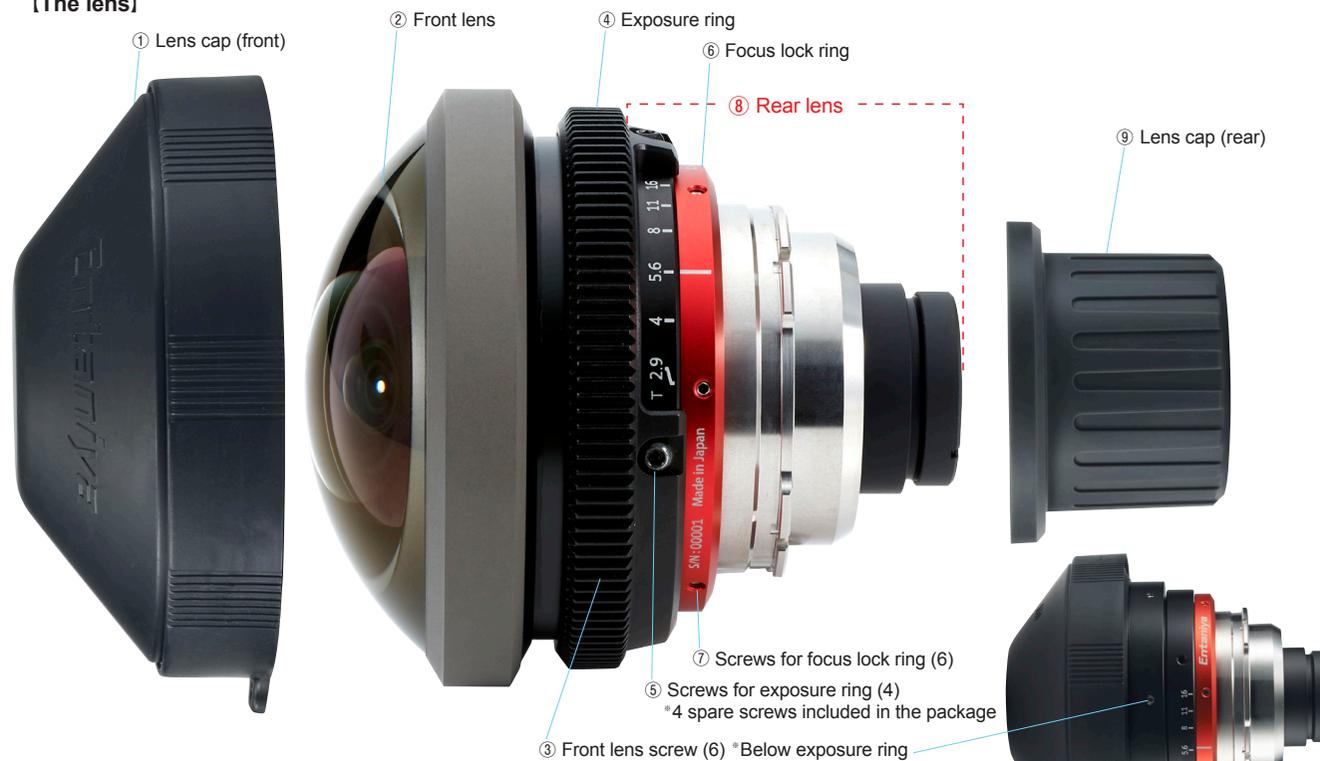
Lens	1 set	Spare screws for Aperture ring	4
Lens cap (front / rear)	1 each	Zoom spacer ring	14pcs
Support ring	1 set	(6.14mm, 6.20mm, 6.30mm, 6.40mm,	
ND filter	1	6.51mm, 6.63mm, 6.74mm, 6.87mm, 6.99mm,	
Allen key	1 set	7.12mm, 7.26mm, 7.40mm, 7.55mm, 7.70mm)	
Warranty certificate	1		

Note: The product specifications and appearance are subject to change for product improvement without prior notice.

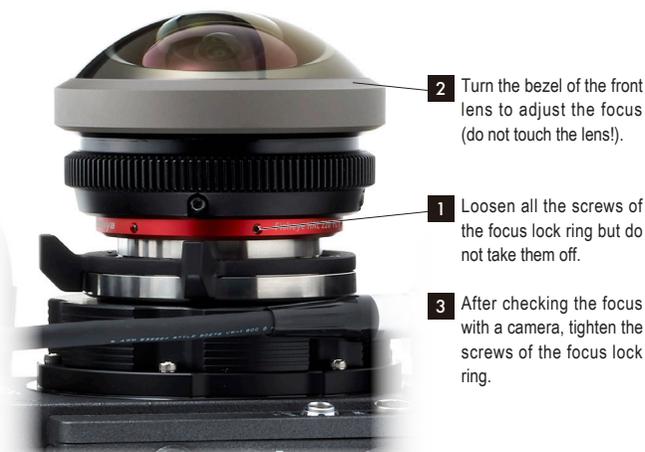
How to use Entaniya Fisheye 220 PL

Names of lens parts

[The lens]



Adjusting the focus



- Turn the bezel of the front lens to adjust the focus (do not touch the lens!).
- Loosen all the screws of the focus lock ring but do not take them off.
- After checking the focus with a camera, tighten the screws of the focus lock ring.

Support ring

If you need to use a support ring, please attach it to the lens. Please pay attention to the direction of the support ring.



Make sure that the side with screw holes faces the rear lens.

How to change the focal length

You can change the focal length by switching the zoom spacer ring inside. Make sure to take the lens off from the camera and put on the cap before doing this.



When disassembling the lens, please make sure that the front lens faces up. The parts might fall and damage the lens.

- Take off all the screws and then take off the aperture ring.
- After taking off the screws of the aperture ring, loosen the screws of the front lens (however, don't take the screws off).
- Rotate the rear lens part to separate front lens from the rear lens part.
- After switching the zoom spacer ring to the one you wish to use, attach the front lens to the rear lens part.
- Do the earlier steps in the order 2 > 1 to attach the aperture ring.

*Be careful not to attach it too tight! screw holes faces the rear lens.

Video manuals

You can see some detailed video explanations by clicking the addresses below.

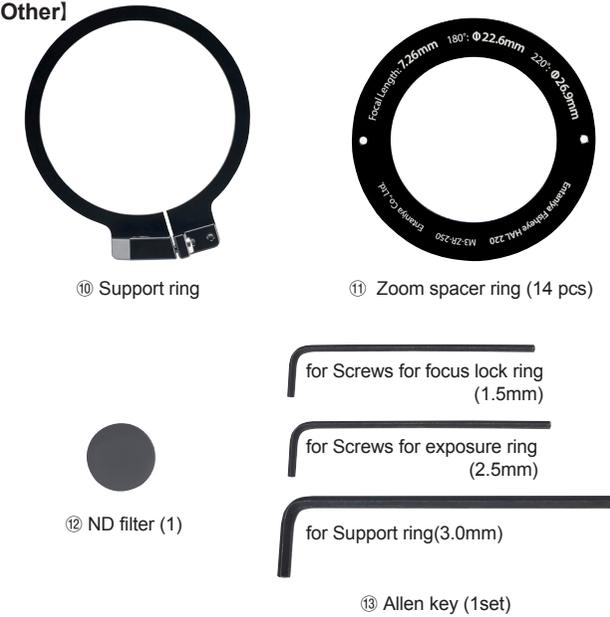
How to adjust the focus

<https://www.youtube.com/watch?v=2kxpWmyMekM>

How to change the focal length

<https://www.youtube.com/watch?v=SzyBccuUPik>

[Other]



Attaching and taking off the lens

Please always attach and take off the lens in a secure place. The or the camera might fall and break. Please also read the manual of the camera.

Notes related to safety

In order to use the product safely, please sure to read "Entaniya Fisheye 220 PL Instruction Manual" before use. This manual has important advice on how to prevent accidents and how to use the product. After carefully reading the manual, please use the product with care. Please always store the manual in a place within your reach.

WARNING

- Failing to follow the instructions below may lead to serious injury or even death.
- Don't disassemble and restructure the lens.
 - Make sure the lens won't get wet.
 - Don't look at the sun or other strong light sources directly through the lens. This may cause blindness. Please keep the lens out of reach of children. The lens might fall or break and lead to injury.

CAUTION

- Failing to follow the instructions below may lead to serious injury or physical damage.
- Do not keep the lens in places with extremely high or low temperatures. Please be careful when using the lens in extremely hot (greater than 35 ° C) or cold (less than 0 ° C) places. Extreme temperatures might worsen the picture quality and can also cause malfunction. Also, if the lens is transferred from a cold place to a warm place, condensation may occur. Please insert the lens in a plastic bag beforehand to adapt it to the ambient temperature and wait a moment before using the lens. This also applies for situations where the lens is transferred from a warm place to a cold place.
 - Do not point the lens at the sun or other intense light sources. The image sensor inside the camera may burn out and make taking pictures impossible.
 - Do not impact the lens. The lens isn't designed to be used in situations with continuous vibration or while playing sports with impacts. If you shoot with the lens in these kind of situations, there's a possibility for the lens cracking.
 - When using the lens, don't fix the lens mount but also the lens itself. It may fall unexpectedly.
 - When removing the lens, please hold the lens and take it off carefully. There is a risk of dropping it.
 - Please put the lens cap on when storing the lens.
 - Do not put the lens in direct sunlight. The light may reflect to nearby objects and cause fire. If it's absolute necessary to leave the lens in direct sunlight, always put on the lens cap. Also, leaving the lens inside a car under sunlight might lead to malfunction because of the high temperature.
 - Do not put the lens in places with a lot of dust, oily smoke, steam, etc. This may cause malfunction.
 - Do not leave the lens in humid place for a long time. This may lead to mold growing.
 - After attaching the lens to camera, always support both lens and camera when holding it.
 - If you wish to connect the lens to other devices, please always read the manual of the device and make sure the devices are compatible.

Inquiry office



ENTANIYA Co., LTD. <http://www.entaniya.co.jp/>
2-6-8 Nishiwaseda Shinjuku-ku Tokyo
169-0051 Japan
TEL: +81-3-5272-5617 E-MAIL: info@entapano.com

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