

INON

INON 45° Viewfinder Unit for X-2

Thank you for purchasing INON product.

The INON 45° Viewfinder Unit for X-2 is to use as replacement of same 45° Viewfinder Unit or interchangeable option for compatible 「INON X-2」 housing which has other viewfinder unit.

Main features

- The 45° Viewfinder extends eye point without changing finder image size (x1.0) to see finder area without vignetting even through a mask.
- The 45° angled eyepiece helps you to shoot a low angled subject like a goby in sand area. Also the eyepiece is 360° rotatable supporting comfortable low angled vertical shot.
- Bright finder image by sufficient entrance pupil diameter, high refractive index and antireflection coating.

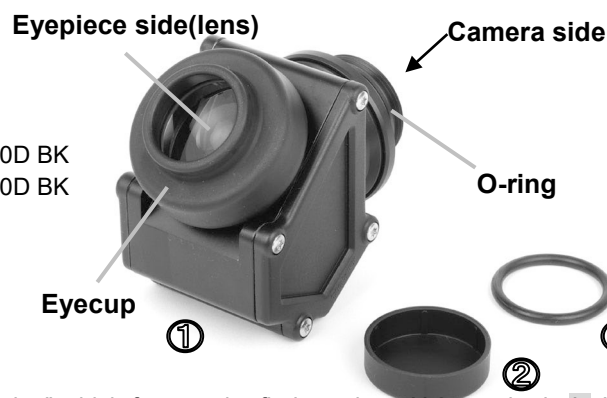
Package contents :

- 45° Viewfinder Unit ① ×1
- Lens cap ② ×1
- Spare O-ring ③ ×1

Compatible housing :

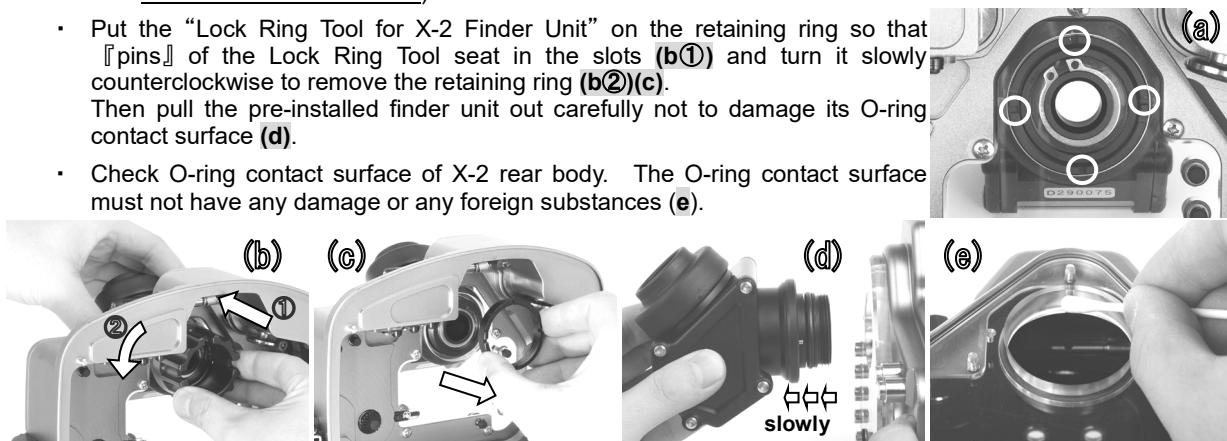
(as of May 2015)

- INON X-2 for EOS10D, INON X-2 for EOS10D BK
- INON X-2 for EOS20D, INON X-2 for EOS20D BK
- INON X-2 for EOS20D BK(TM)
- INON X-2 for EOS30D BK(TM)
- INON X-2 for EOS50D/40D
- INON X-2 for EOS60D
- INON X-2 for EOS70D



Dismount pre-installed: Check four 『slots』 of “finder unit retaining ring” which fastens the finder unit on X-2 rear body (a Image shows 45° Viewfinder Unit).

- Put the “Lock Ring Tool for X-2 Finder Unit” on the retaining ring so that 『pins』 of the Lock Ring Tool seat in the slots (b①) and turn it slowly counterclockwise to remove the retaining ring (b②)(c). Then pull the pre-installed finder unit out carefully not to damage its O-ring contact surface (d).
- Check O-ring contact surface of X-2 rear body. The O-ring contact surface must not have any damage or any foreign substances (e).

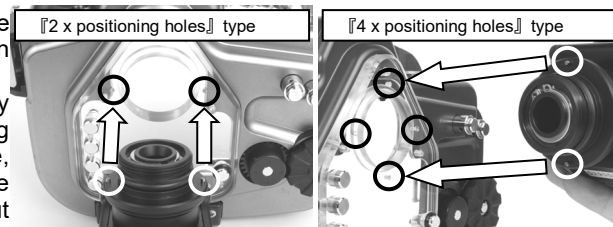


- Preparation :**
- Make sure to check the condition of O-ring/O-ring groove of the 45° Viewfinder Unit before installing on your X-2 housing. They must be perfect condition without any damage or foreign substances.
 - Please refer to 「Measures to Prevent Accidental Flooding」 section of X-2 housing user manual for detail and first check with the O-ring being installed. If necessary, apply thin film of INON grease (supplied with X-2 housing) on the O-ring surface uniformly. (i).
 - When you re-install/replace the O-ring, follow below procedure.
Lightly squeeze the O-ring from the sides so it bulges out then grasp and gently pull it off by fingers (f). Next, check condition of the O-ring/O-ring groove and make sure that they do not have any damage or any foreign substances (g,h). Use supplied spare O-ring if installed O-ring needs to be replaced. Using fingertips, apply thin uniform film of Inon grease (supplied with X-2 housing) on the O-ring (h). Install the O-ring in the O-ring groove without twisting. Finally check and make sure that the O-ring is seated completely and uniformly without being twisted (i).



Installation method : Attach the 45° Viewfinder Unit on X-2 rear body in reverse procedure of previous 「Dismount pre-installed viewfinder unit」.

- As in the right images, “positioning pins” on the 45° Viewfinder Unit have to be properly seated in “positioning holes” of X-2 rear body.
- There are two different types of X-2 rear body having 『2 x positioning holes』 or 『4 x positioning holes』. If yours is 『2 x positioning holes』 type, then put 『positioning pins』 into them. In case 『4 x positioning holes』 type, make sure to put 『positioning pins』 in 『positioning holes』 on 6/12 o'clock position.

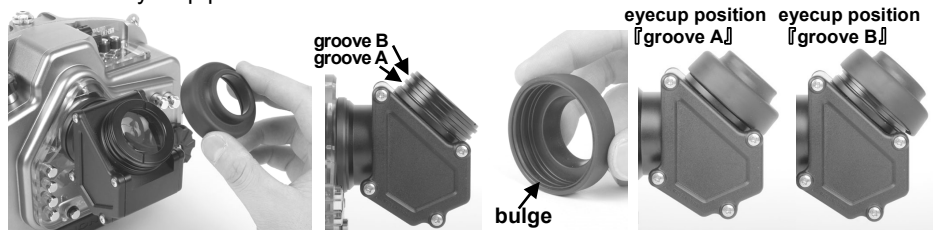


When installing, make sure to attach the viewfinder unit gently and straightly not to damage the O-ring contact surface of X-2 rear body and the O-ring. Do not tighten the Lock Ring too much to avoid accidental damage of the X-2 rear body or anchoring of the finder unit.

Pre-use check: **Immerse assembled housing/viewfinder in a bath tub with fresh water (below 30°C/86°F) to check waterproof property. There must be no flooding inside of the assembled housing / viewfinder.** While X-2 viewfinder system gives you unique self-interchangeable option, you are responsible to check if the viewfinder is properly installed. Improper installation may cause flooding or accidental damage. **Make sure to re-tighten the lock ring before every time you use your X-2 housing.**

Eyecup adjustment : **It is necessary to adjust the eyecup position to suit to your mask** to obtain best finder image.

- Remove the eyecup from the 45° Viewfinder Unit.
- The eyecup can be installed either on 『groove A』 or 『groove B』 of the 45° Viewfinder Unit to suit to different type of mask.
- Check viewfinder image of both eyecup position 『groove A』 / 『groove B』 through your mask as in underwater and select better eyecup position.



Normally eyecup position 『groove A』 gives better finder image. However, eyecup position 『groove B』 is recommended for some mask having closer lens surface relative to eyes.

Handling precautions: Together with precautions described in X-2 user manual, please keep followings;

- Always slowly turn the 45°Viewfinder Unit
Rotation movement of the 45°Viewfinder Unit must be at minimal speed. Turning too fast could cause twist or damage of the pre-installed O-ring resulting in possible flooding.
Please contact your purchasing dealer for check and possible repair if rotation becomes tight or sands are trapped in movable part.

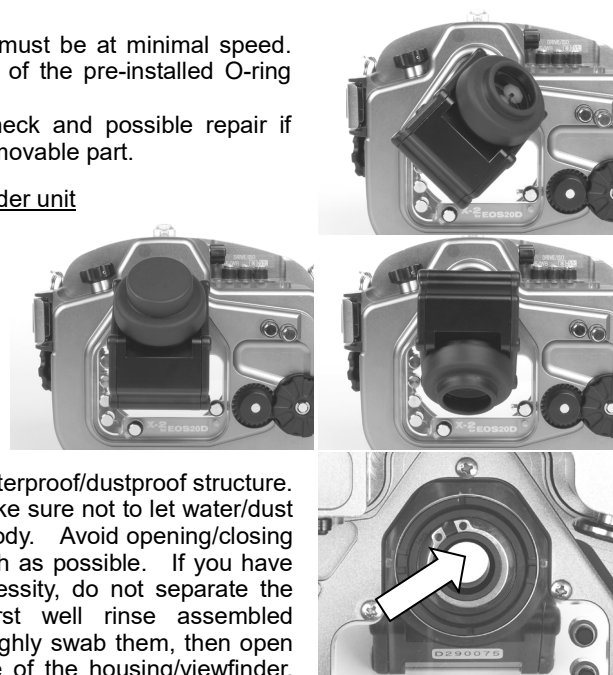
- DO NOT let sunlight directly get into the viewfinder unit
to avoid possible damage on camera itself.
When not in use, cover the eyepiece with supplied lens cap or turn the viewfinder so that its eyepiece facing down as in the right images. *Always make sure that the viewfinder is completely dry including lens surface before using lens cap.

- DO NOT let water/foreign substances get inside of the viewfinder unit

Camera side of the 45°Viewfinder unit is not waterproof/dustproof structure. Always clean inside of the X-2 housing and make sure not to let water/dust get inside whenever you open/close X-2 rear body. Avoid opening/closing X-2 rear body splashed or humid area as much as possible. If you have to open X-2 rear body in such areas by necessity, do not separate the installed viewfinder and the X-2 body, first well rinse assembled housing/viewfinder with fresh water and thoroughly swab them, then open carefully not to allow water/dust getting inside of the housing/viewfinder. Please contact purchasing dealer for possible repair if you observe any water/foreign substances inside of the viewfinder unit.

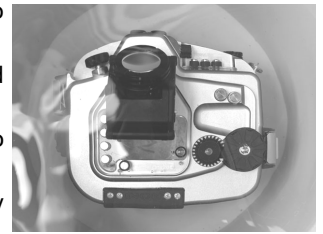
- DO NOT disassemble

The 45° viewfinder is precisely assembled. Never attempt to disassemble the 45° viewfinder unit to avoid malfunction/flooding. Contact your purchasing dealer for repair/check if you observe malfunction. Repair/disassemble/modification at non INON service facility will void warranty and INON will not compensate any damage caused by such acts.



After Use Maintenance

- : After use, first remove the eyecup and rinse together with the X-2 housing to dissolve any salt build-up.
Then blow off remaining water on the eyepiece of the 45° viewfinder unit and make sure that no water remains on the eyepiece lens surface.
Place in shaded and well ventilated area to dry. (It may take several days to completely dry)
Put back the eyecup on the 45° viewfinder unit after both of them are completely dried.



Storage method

- : After maintenance, put the lens cap and store it under recommended storage condition as same as X-2 housing.

Option / servicing parts

- Lens Cap (for 45° Viewfinder Unit/Straight Viewfinder Unit for X-2)
② in the product image.
- Replacement O-ring (for 45° Viewfinder Unit/Straight Viewfinder Unit for X-2)
③ in the product image.
NOT usable for the Pick-up Finder unit / Finder Window Unit.
- Lock Ring Tool for X-2 Finder Unit
Dedicated tool to attach/detach a viewfinder unit for 「X-2」 series housing.
The Lock Ring Tool is supplied with an interchangeable viewfinder compatible 「X-2」 series housing.



INON X-2 Finder Unit series Specifications (*1)

Model	45° Viewfinder Unit for X-2
Length / width / height (*2)	91.5mm / 3.6 in. 57.5mm / 2.3 in. 81.0mm / 3.2 in.
Weight (*2) [air]	332 g / 10.7 oz
Material / finishing	Corrosion-resisting aluminum alloy / black rigid alumite, ABS etc.
Lens material / finishing	Optical glass / antireflection coating
Lens construction / magnification	5 elements in 3 groups (plus high refractive total reflection prism x 1 / x 1.0

*1 Subject to change without prior notice.

*2 Including the eyecup without the lens cap.

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Tips on Diopter Adjustment

Under bright circumstance on land, human eye's pupil shrinks making diopter adjustment easy as depth of field is deep while the adjusted viewfinder may not provide perfect focus when the pupil opens in dark underwater as the depth of field gets shallow and it becomes hard to see viewfinder image especially with presbyopic eye due to deteriorated focusing function.

Though it varies among different individuals or ages, it takes about 15 minutes to open pupils by dark adaptation. So it would be recommended to **conduct diopter adjustment in a dark room (darker than underwater) after staying there for 15 minutes when pupils open** as like being underwater to get perfect focus of viewfinder image even underwater where pupils will open.

As long as proper diopter adjustment simulating dark underwater as explained above is performed, expensive diopter adjustment function on a viewfinder is not required anymore.