INON

X-2 for GX9 VC

User Manual

Thank you for purchasing INON housing.
The INON X-2 for GX9 VC is underwater camera housing for Panasonic LUMIX DC-GX9. Please make sure to read and understand this manual and camera's user manual before you use.

Precautions

- This product is designed and manufactured for use in severe conditions and all housings have been pressure tested in water and fully checked for proper function before shipping. ***However it is essential to receive pre dive check and post dive maintenance by a user, and periodic overhaul at INON to ensure your X-2 housing maintains optimum performance including factory default water-proof property.*** Please carefully read through this manual to familiar with functions, characteristics, proper usage and maintenance procedures before you use this product.
- Please note that levers/buttons of the housing may scratch housed camera/lens.
- INON Inc. cannot indemnify anyone for any direct/indirect loss/damage on camera/lens caused by malfunction/flooding of this product.
- It is recommended to insure your equipment including the housing, camera, lens etc. by travel insurance or accident insurance with personal effect coverage in case accident (damage, theft etc.) should happen.
- Should you have trouble like flooding or malfunction, INON Inc. shall not be liable for incidental damage (relevant expense to take a shot or lost earnings etc.).
- Impact shock on the housing may cause damage/malfunction of housed camera/lens. *DO NOT* transport camera/lens housed in the housing except for carrying equipment to a dive site just before diving.
- Please be advised that some of images in this manual may be different from actual product specification (color etc.) for the illustrative purpose.

Contents

Measures to Prevent Accidental Flooding

The INON X-2 housing is waterproof due to a rubber O-ring enabling underwater use. Therefore O-rings and O-ring contact surfaces must be inspected each time before using the housing to ensure waterproof integrity.

O-ring Inspection Locations

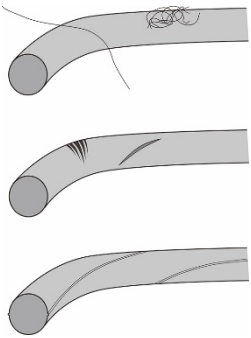
The user serviceable O-rings are “Main O-ring” and “Port O-ring”. Be sure to check condition of each O-ring.

O-ring Inspection

These are the essential factors ensuring waterproof property by O-ring;

- O-ring itself,
- O-ring contact surface
- O-ring groove
- If O-ring is properly installed, and
- Grease

First, ***inspect the O-ring as it is seated in the groove***. If any of the following are evident, there is a high chance that the housing will flood underwater. Be very careful about checking these points:

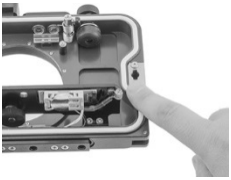


- If hair, sand, lint or other debris is attached to the O-ring
  → Remove/Wipe-off the debris.
  → Remove O-ring as instructed in “O-ring Replacement/Removal” (page 5) and wipe-off the debris.
- If the O-ring is cut or cracked
  → The damaged O-ring must be replaced with a new O-ring. Please refer “O-ring Replacement/Removal” (page 5).
- If the O-ring is twisted
  → The O-ring must be removed and reinstalled uniformly with no twists or other irregularities. Please refer “O-ring Replacement/Removal” (page 5) for reinstallation.
- If there is a scratch, blemish or other imperfection on the O-ring contact surface
  → The housing must be inspected by an INON service facility. Contact your purchasing dealer for advice.

O-ring Maintenance

Periodically re-grease the O-rings only using the supplied INON Grease, to protect O-rings and enhance water resistance INON yellow O-rings are compounded with a special type of oil which naturally migrates to the O-ring surface, but which is not compatible with all grease types. Do not use any other grease or other oil/fat containing material, which may cause the O-rings to swell or deform, causing poor seal and water leakage. Use of non-INON grease will void warranty.

- For the main O-ring, set the O-ring in place properly and apply a thin film of the supplied grease on the O-ring by a finger.



- The O-rings of the ports are easily damaged by friction, so apply extra grease to both the O-ring (with the O-ring set) and the O-ring contact surface. For details, see "Installing Port/EXT. Ring" (page 11)."

Even without any damage, an O-ring itself will deteriorate due to deformation, wear, or changes in the material over time, etc. We recommend periodic overhauls. For details, please refer to " --- Overhaul" (page 23).

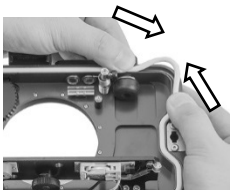
Be sure to use the enclosed INON Grease for the yellow O-ring. If you need a new one, please refer to "Appendix --- Optional Accessory" (page 24).

O-ring Replacement/Removal

O-ring setting condition is very important, especially the main O-ring setting condition significantly changes the waterproof property.

- Your housing has passed factory pressure test with the main O-ring being set as it is. Since an incomplete O-ring set can cause flooding, it is not recommended to remove the main O-ring frequently for regular maintenance.
- If you need to remove the O-ring due to unavoidable reasons (e.g. foreign object attached onto the O-ring or scratched O-ring), please consult your purchasing dealer or follow the instructions below to ensure proper replacement.

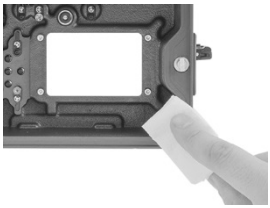
1 As shown in the right image, pull the O-ring together from both sides, then gently pull it out by pinching the lifted part.



2 Make sure that there are no scratches or foreign objects on the O-ring and O-ring groove.
3 Take a small amount of INON Grease on your fingertip and spread it evenly on the O-ring. If you need to replace the O-ring, prepare a packaged spare O-ring.
4 Install the O-ring into the O-ring groove without stretching or stuffing it without twisting and even out the entire O-ring with your fingers after the installation.
5 Check that there are no bumps or kinks throughout the O-ring.
6 Proceed to the next section, "Checking the Main O-ring Setting Condition".

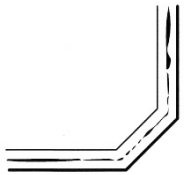
Checking Main O-ring Set Condition

1 Clean off the grease from the O-ring contact surface of the rear body, and apply a thin film of grease to the O-ring.



2 Close the housing referring to "Preparation - Installing Camera - Closing the housing" (page 26).

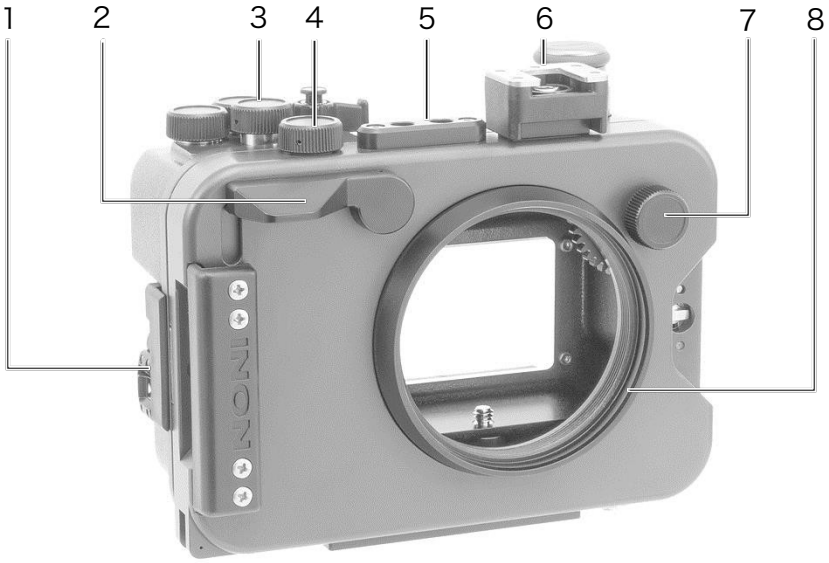
3 Open the housing to check the O-ring contact surface of the rear body. You should see grease on the O-ring contact surface which indicates the set condition of the O-ring. Broken or uneven width of grease shown in the right is a sign of uneven thickness of the O-ring. See "O-ring Removal/Installation, Replacement" in the previous section and reinstall the O-ring until the width of the transferred grease becomes even.



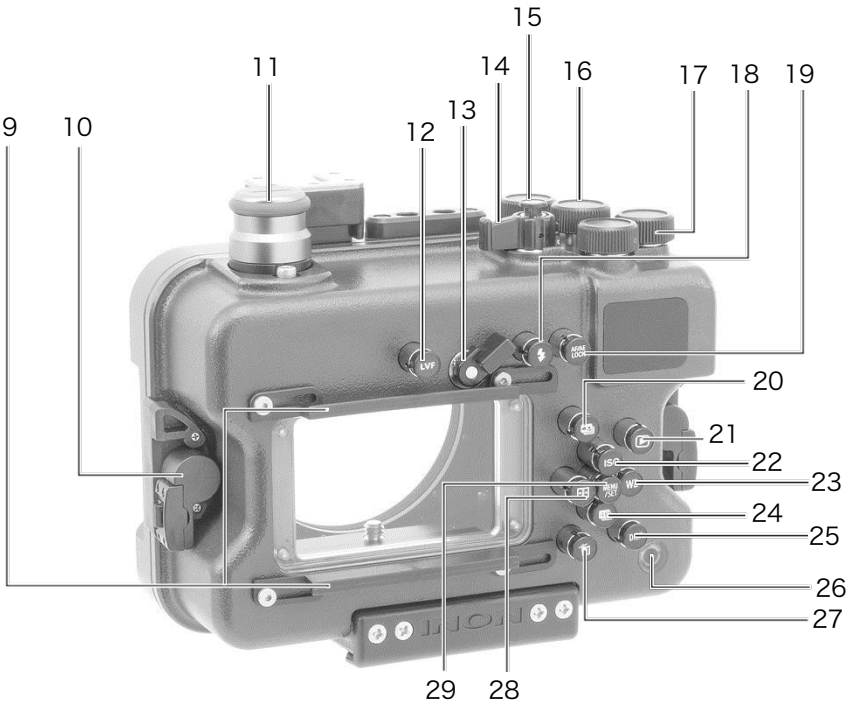
- **O-ring provides optimal sealing properties when it is evenly adhered to O-ring groove and O-ring contact surface.**
- **In particular, the main O-ring becomes thinner when it is stretched and thicker when it is filled making it difficult to fit properly with the O-ring groove/O-ring contact surface, and the waterproof performance will be degraded.**
- **Be sure to follow the next section, "Checking the Main O-ring Setting Condition". Especially at the corners, the thickness of the O-ring can easily become uneven or twisted. Please pay extra**

Please perform O-ring installation carefully and properly, as incomplete installation of O-ring can cause serious flooding.

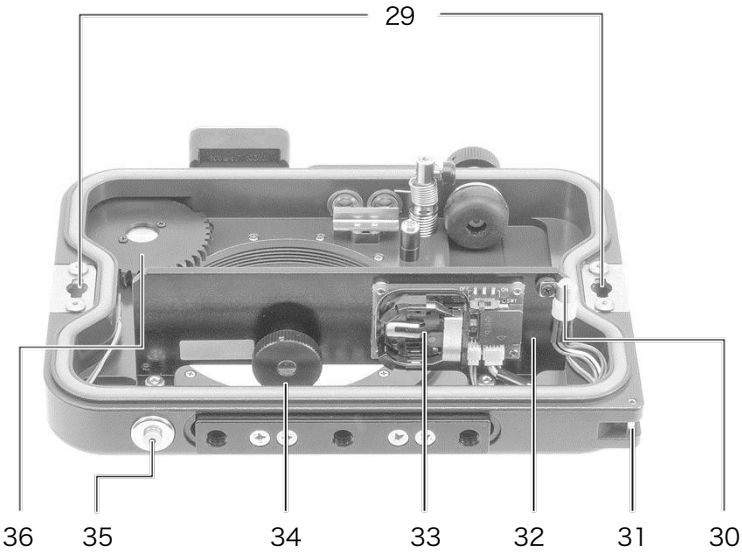
Name of parts



1. Lock lever (R)
2. Shutter lever
3. Mode dial
4. Front dial
5. Optical cable adapter
6. Accessory shoe
7. Zoom dial
8. Port mount



9. Guide rail for hood
10. Lock lever (L)
11. Valve cap
12. [LVF] button
13. Focus mode lever
14. Power switch lever
15. Motion picture button
16. Rear dial
17. Exposure compensation dial
18. [Flash open] button
19. [AF/AE LOCK] button
20. [Post Focus] button
21. (Playback) button
22. ▲ button (ISO sensitivity)
23. ▶ button (White balance)
24. ▼ button (Drive mode)
25. [DISP] button
26. Leak sensor indicator
27. (Delete) button
28. ◀ button (AF Mode)
29. [MENU/SET] button



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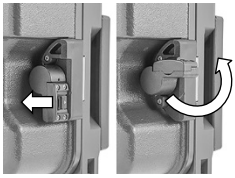
29. Lock plate
30. Leak sensor LED
31. Strap hole
32. Camera mount plate
33. VC leak sensor
34. Camera fixing screw
35. Corrosion suppression unit
36. Gear
37. INON grease
38. Hand pump

Usage

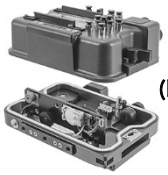
Opening the housing

1 Open the housing lock lever (left/right) with the locking pins sliding toward you until you hear a "snap" sound. (Fig.1)



(Fig.1)

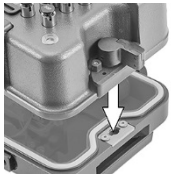
2 Open both lock levers outward, then lift the rear body straight up (Fig. 2). Be sure to place the removed rear body with the O-ring contact surface upward to avoid scratching it.



(Fig. 2)

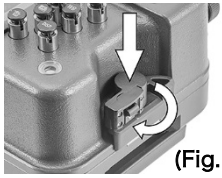
Closing the housing

1 With the lock levers opened outward, align the shape of the lock plate openings on the front body and lock lever edges, then push the rear body in. (Fig. 3)



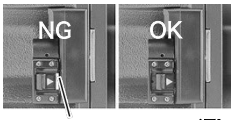
(Fig. 3)

2 While pressing down the lock levers firmly, close them inward. (Fig. 4)



(Fig. 4)

3 Make sure the lock pin on the lock lever is properly locked. If not, the lever may accidentally move underwater causing flooding (Figure 5).



(Fig. 5)

Installing Port/EXT. Ring

1 Check the port O-ring and O-ring groove carefully. Apply extra grease to the O-ring after confirming that the O-ring has no abnormalities.

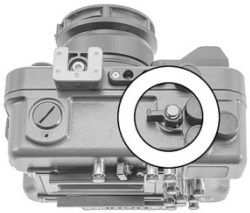
2 Check the O-ring contact surface on the housing carefully. Apply grease after confirming there is no abnormality.

3 Install the port in the housing by turning it clockwise slowly. Turning too fast may damage the O-ring. Be careful not to over-tighten as the port cannot be removed if over-tightened.

4 Using MRS Port: After installing the camera in the housing as described in the next page, attach the control ring to the MRS Port according to the respective instruction manual.

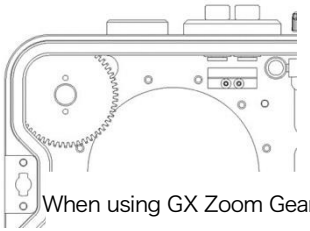
Setting the camera

1 Before loading the camera, set the power switch lever on the front body to the position shown in (Fig. 1).

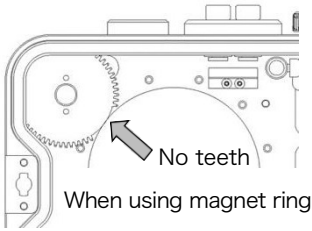


(Fig.1)

2 Adjust the position of the housing side gear to suits to your intended lens control method (by gear or magnet).

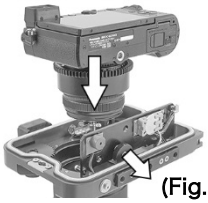


When using GX Zoom Gear



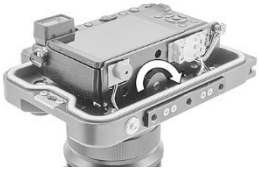
When using magnet ring

3 Set the camera on the camera mount plate. While pulling down the camera mounting screw on the camera mount plate, slide the camera in so that the camera lens is aligned with the center of the housing port. (Fig. 2)



(Fig. 2)

4 Screw the camera fixing screw into the tripod screw hole of the camera to secure the camera. (Fig. 3)



(Fig. 3)

5 Refer to "---Closing the housing" (page10) to check if all buttons and levers work properly after setting the rear body. On land, the Mode dial should be turned while lightly pressing it.

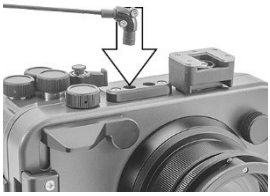
Using a strobe

(Fig.1)

1 To use an external strobe with this housing, camera's built-in flash needs to be opened after the camera is set in the housing. Press the [Flash Open] button on the housing. (Fig. 1)

> The built-in flash cannot be closed by housing control. Deactivate the built-in flash on camera setting when not using an external strobe.

2 Plug an optical cable into the optical cable adapter. (Fig. 2) The optical cable adapter can hold up to two cables and INON Double Hole Rubber Bush can hold two cables so that up to four optical cables can be attached on the housing.



(Fig.2)

Compatible cable	Optical D Cable Type L/Double Hole Rubber Bush Set
	Optical D Cable L Type L/Double Hole Rubber Bush Set
	Optical D Cable LL Type L/Double Hole Rubber Bush Set
	Optical D Cable SS Type L/Double Hole Rubber Bush Set

Compatible strobe	Z-330, Z-240 series
	D-200, D-2000 series
	S-2000
	Z-220 series

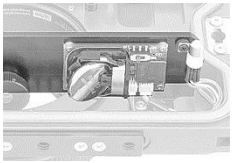
3 When using an INON strobe in [Manual]/[External Auto] mode, set the camera's built-in flash to manual flash (flash output 1/128) and turn off the Advanced Cancel Circuit of the strobe (insert a magnet/push and lock the ACC switch) .

Using Vacuum Leak Sensor

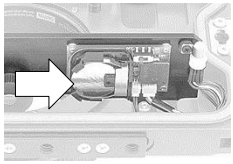
The X-2 housing is equipped with a vacuum leak sensor monitoring the air pressure inside the housing to confirm proper sealing of the housing on land, and notifies with a lamp and an audible buzzer in case of accidental flooding underwater.

・Installing battery

Install one CR2032 battery (not included) on the Vacuum Leak Sensor Unit as per below images. The positive (+) terminal should be facing to housing bottom side (Fig.1). DO NOT install the battery with wrong orientation. When removing the battery, push battery side as per below Fig. 2.

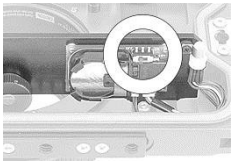


(Fig. 1)



(Fig. 2)

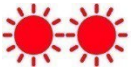
・Turn on the Vacuum Leak Sensor by the switch circled in Fig.3.



(Fig. 3)

The LED blinks when the power is turned on indicating the battery level.

Three blinks at once → Battery level is sufficient

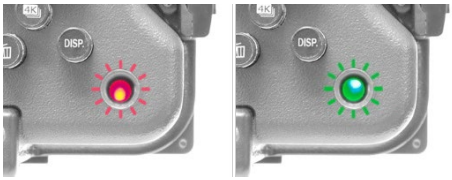


Two blinks at once → Battery level gets low

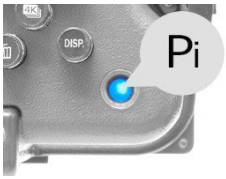
Single blink at once → Change the battery

・Check procedure

With setting the camera, remove the valve cap (gold) and attach a hand pump securely on the valve. Start pumping to gain appropriate pressure level for check. The vacuum sensor monitors air pressure inside of the housing to confirm sealing.



As you pump, the blinking pattern changes from red/green (right after start pumping) to green only which tells you to stop pumping after one or two more pumping.



Stop pumping when the LED changes to blue and you hear an audible buzzer.

Close the valve with the valve cap right away. (Fig. 4)

(Fig. 4)

Leave the housing as it is for five minutes. The LED/buzzer will tell the result.

If you have over vacuumed, the LED shines in red. If this should happen, reboot the Vacuum Leak Sensor Unit and conduct vacuum check again. Refer to latter section how to open the housing as you need to equalize pressure level of inner housing

・Vacuum check results

 Blue blinks	The housing has been properly closed carrying proper sealing for underwater use.
 Shines in red	Vacuum check ***failed***. Not ready to use the housing underwater. Open the housing, check O-ring and conduct vacuum check again. Refer to latter section how to open the housing as you need to equalize pressure level of inner housing to open.

Make sure to close the valve with the valve cap before using the housing underwater. Using the housing underwater without valve cap leads to accidental flooding.

・Opening the housing after use

After pumping (taking air volume out from the housing), inside of the housing is decompressed and unable to open the housing as it is. Open the Vacuum Valve Cap and pull the blue tab as per Fig. 5 to take air into the housing.

(Fig. 5)

Turn OFF the Vacuum Leak Sensor when not using the housing for extended period.

Installing Arm System

A variety of arm products are available to suit your strobe and shooting style.

The accessory shoe on the top of the housing is designed to hold below optional adapter.

・Shoe Base II
・Shoe Base 1/4-20UNC
・Shoe Base M6
・Shoe Base BALL

The housing can also be attached following base trays at its 1/4 tripod screw holes on the bottom of the housing.

・Holder III Set
・Grip Base D4* etc.

Various arm configurations are available.

*Set the handle of the Grip Base D4 on the left hand side only; the space between the handle and the housing will become very narrow if set on the right hand side.

Lens Compatibility

Fisheye lens	Port/EXT.Ring	Gear/Magnet Ring
LUMIX G FISHEYE 8mm / F3.5	GX Dome Port	N/A

Zoom lens	Port/EXT.Ring	Gear/Magnet Ring
LUMIX G VARIO 14-42mm F3.5-5.6 II ASPH. / MEGA O.I.S.	GX Standard Port M67	GX Magnet Ring 14-42 S
	GX Standard Port LD	
	GX Standard Port M67	GX Standard Gear
	GX Standard Port LD	
LUMIX G VARIO 35-100mm F4.0-5.6 ASPH. / MEGA O.I.S.	GX Standard Port M67 + GX EXT. Ring 24	GX Standard Gear
	GX Standard Port LD + GX EXT. Ring 24	

Macro lens	Port/EXT.Ring	Gear/Magnet Ring
LUMIX G MACRO 30mm F2.8 ASPH. / MEGA O.I.S.	MRS GX Macro Port M67	GX Magnet Ring 30 Set
	MRS GX Macro Port LD	GX Magnet Ring 30 Set
LEICA DG MACRO-ELMARIT 45mm F2.8 ASPH. / MEGA O.I.S.	MRS GX Macro Port M67	GX Magnet Ring
	MRS GX Macro Port LD	GX Magnet Ring

Conversion Lens Compatibility

■ LUMIX G VARIO 14-42mm / F3.5-5.6 II ASPH.

GX Standard Port M67	
Close-up lens (*1)	UCL-330
	UCL-165M67
	UCL-90 M67
	UCL-67 M67
Wide conversion lens	UWL-H100 28M67 Type2 (*2)
	Dome Lens Unit II for UWL-H100 (*2)
U/W micro semi-fisheye lens	UFL-M150 ZM80 (※3)
Others	UW Variable Red Filter M67

MRS GX Standard Port LD/GX Standard Port LD	
Close-up lens (*1)	UCL-165LD
	UCL-90 LD
	UCL-67 LD
Wide conversion lens	UWL-H100 28LD (*2)
	Dome Lens Unit II for UWL-H100 (*2)
U/W micro semi-fisheye lens	UFL-M150 ZM80 (※4)

■ LUMIX G VARIO 35-100mm / F4.0-5.6 ASPH. / MEGA O.I.S.

GX Standard M67 + GX EXT.Ring 24	
Close-up lens (*1)	UCL-330
	UCL-165M67
	UCL-90 M67
	UCL-67 M67
Others	UW Variable Red Filter M67

GX Standard Port LD	
Close-up lens (*1)	UCL-165LD
	UCL-90 LD
	UCL-67 LD

■ LUMIX G MACRO 30mm / F2.8 ASPH. / MEGA O.I.S..

MRS GX Macro Port M67	
Close-up lens	N/A Due to the short minimum focus distance of the master lens, the magnification does not increase much when using a close-up lens.
Others	UW Variable Red Filter M67

MRS GX Macro Port LD	
Close-up lens	N/A Due to the short minimum focus distance of the master lens, the magnification does not increase much when using a close-up lens.

■ LEICA DG MACRO-ELMARIT 45mm / F2.8 ASPH. / MEGA O.I.S

MRS GX Macro Port M67	
Close-up lens	UCL-330 UCL-165M67 UCL-90 M67 UCL-67 M67
Others	UW Variable Red Filter M67

MRS GX Macro Port LD	
Close-up lens	UCL-165LD UCL-90 LD UCL-67 LD

(*1) On land and underwater, vignetting on image corners between zoom wide end and zoom middle range. Zoom to telephoto side until vignetting disappears.
(*2) On land, image corners at wide end will be vignetted. Crop the image after shooting or zoom in slightly to telephoto side.
(*3) M27-M67 Mount Converter for UFL-M150 ZM80 is required.
(*4) M27-LD Mount Converter for UFL-M150 ZM80 is required.

Maintaining Your Housing for Long-lasting Use

Handling

- Avoid vibrations and shocks

  The INON X-2 is precisely calibrated and should not be subjected to severe vibration such as boating, dropping, bumping, etc. When carrying the housing, wrap it with a thick towel to avoid vibration or shock. Even without external damage, there may be deformation or loosening of parts which may prevent operation of the camera or may cause flooding accident. Please consult your dealer if you think your housing has got damaged.

- DO NOT leave the housing in hot places

  Do not leave the housing in places with high temperature, such as in direct sunlight (e.g. on a beach or on a boat deck) or in a heated car. Doing so may not only damage the camera or housing but also cause flooding due to thermal deformation.

- DO NOT disassemble

  This product is assembled with advanced engineering and should not be disassembled as it may cause malfunction or flooding. Please consult your dealer in case of malfunction or failure. INON Inc cannot compensate for any damage caused by disassembly or modification by the customer.

- DO NOT jump in water with your housing

  Jumping into the water with housing or strobe may cause unexpected problem due to impact shock on the water surface. When entering from a boat, enter without equipment and have someone hand it to you or put the equipment down with a rope before entering.

- DO NOT subject the sealed housing to lower pressure

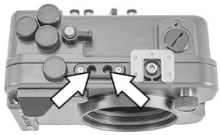
  The housing is designed to withstand external pressure (water pressure) but not internal pressure buildup (decrease in external pressure). Be sure to remove a port when transporting the housing through high altitude or by

aircraft.

● DO NOT let water get inside

Avoid opening/closing the housing or installing/removing the port in splashing water or humid environment. If you need to open/close the housing in such environment, wash the outside of the housing with fresh water and wipe thoroughly before opening/closing. Preparing the housing in humid place or with moisture on it may cause condensation inside the port or viewfinder due to temperature difference during underwater use.

After Use Maintenance



After using the product in seawater, soak it in fresh water (below room temperature, not hot water) for several hours to remove salt. Slowly move dials, levers and buttons to wash away any remaining sand, salt, etc. Be sure to thoroughly wash the optical adapter window as cloudy window by residual salt can prevent proper signal transmission. Dry the housing thoroughly in shaded and well ventilated area. It may take a few days to completely dry moisture in gaps even the surface is dry. Check O-rings of each part and grease them.

Storage

Store in a dry and well-ventilated place, out of direct sunlight, with the batteries removed and the housing closed. Do not store near chemicals (camphor, naphthalene, etc.) or in a place where temperature changes rapidly. It is recommended to put a drying agent in the housing during storage.

Battery

One "CR2032" lithium battery is required. When the battery is drained, the leak sensor becomes inoperable, so please replace the battery referring to "Using Vacuum Leak Sensor" (page 14). The battery life varies depending on usage and other factors, so it is recommended to check battery level and replace the battery earlier to prevent the sensor from failing to operate in case of accidental flooding. Be sure to remove the battery when the housing is not in use.

Daily Maintenance

- If the shutter release lever, dials, or buttons do not work properly
  Load the camera into a housing and operate the lever, dials and buttons in fresh water. If this does not help, please consult your dealer.

- If the zoom/focus operation is not working properly
  First, check that the zoom gear and magnet ring are installed on the correct position of the lens, referring to the respective instruction manual, and that manual focus and zoom operations can be performed smoothly with the lens itself. If this problem persists, please consult your dealer.

- If corrosion suppression unit gets small and rattles
  Retighten the Corrosion Suppression Unit using the supplied 3 mm hex key. If the unit becomes too small to be tightened, replace the corrosion suppression unit by referring to "Apendix --- Optional Accessory" (page 24).

Overhaul

This product is designed and manufactured for use under severe conditions. However, in order to maintain rated performance including waterproof property, it is necessary to perform various inspections before use and maintenance after use.

In addition to the above, it is necessary to get the product overhauled periodically to check consumables including O-rings and to check for any problems such as rattling. It is recommended to overhaul annually in order to prevent accidental flooding.

Appendix

Optional Accessory

Optional accessories including optical cables, arms, adapters etc. and maintenance parts.

- Optical D Cable Type L Double Hole Rubber Bush Set
  Optical D Cable L Type L Double Hole Rubber Bush Set
  Optical D Cable LL Type L Double Hole Rubber Bush Set
  Optical D Cable SS Type L Double Hole Rubber Bush Set

  Optional optical cable is required to connect the housing and compatible strobe. Four different cable lengths are available: Optical D Cable Type L with free length 43cm, Optical D Cable Type L with free length 68cm, Optical D Cable LL Type L with free length 110cm and Optical D Cable SS Type L with free length 24cm.

- Holder III Set

  A base tray with a handle to attach a strobe on the X-2 housing. Securely attached on the housing with two tripod screws, the handle can hold the back of right hand to comfortably press the shutter release button and various adapters can be connected on the top end of the handle.

- Holder III

  Additional handle (left hand side) for the Holder III Set.

- Shoe Base II
  Shoe Base 1/4-20UNC
  Shoe Base M6
  Shoe Base BALL

  Directly attached to the accessory shoe on top of the housing for various arm configurations.

● Corrosion suppression unit

Replacement unit when the pre-installed corrosion suppression unit wears out. The unit prevents the X-2 housing from rusting by rusting itself.

● X-2　GX Main O-ring 165

Replacement O-ring for the housing body. Oil-bearing type yellow O-ring.

● X-2　GX Port/GX EXT. Ring　O-ring

Replacement O-ring for X-2 GX series port/EXT Ring. Oil-bearing type yellow O-ring.

● INON Grease

Dedicated grease for oil-bearing type INON yellow O-rings.

Specifications

Compatible camera	Panasonic DC-GX9
Compatible lens	LUMIX G FISHEYE 8mm / F3.5 LUMIX G VARIO 14-42mm / F3.5-5.6 II ASPH. / MEGA O.I.S. LUMIX G VARIO 35-100mm / F4.0-5.6 ASPH. / MEGA O.I.S. LUMIX G MACRO 30mm / F2.8 ASPH. / MEGA O.I.S. LEICA DG MACRO-ELMARIT 45mm / F2.8 ASPH. / MEGA O.I.S.
Compatible strobe	INON Z-330/D-200/S-2000/Z-240/D-2000 series/ D-180 series/Z-220 series
Accessible camera controls	Shutter button, Front dial, Exposure compensation dial, Mode dial, Camera [ON/OFF] switch, Motion picture button, [LVF] button, Focus mode lever, Flash open button, [AF/AE LOCK] button, Post focus button, Delete button, Playback button, ▲ button (ISO sensitivity), ▶ button (White balance), ▼ button (Drive mode), ◀ button (AF Mode), [MENU/SET] button, [DISP] button, Rear dial
Accessible lens control	Manual focus ring (fixed lens) Zoom ring (zoom lens)
Optical cable connector	Two connectors (maximum of four strobes can be directly connected by using the Rubber Bush Type L.)
Leak sensor	Built-in battery/function check Operated by 1x CR2032
Size	W168 x H116 x D80 mm/W6.6 x H4.6 x D3.1 inch
Weight (air)	Approx. 1172g/2.6 lbs.
Depth rating	75 m/246 ft.
Operating temperature	0˚C-40˚C/32˚F-104˚F
Material	Corrosion-resistant aluminum alloy
Color	Teflon-molybdenum coating: charcoal gray
Accessory	INON Grease

*Specifications/exterior are subject to change without notice due to improvements etc.

Underwater weight

Lens	Port/EXT. Ring	Gear/Magnet Ring	Underwater weight
LUMIX G FISHEYE 8mm / F3.5	GX Dome Port	N/A	Approx. 553g/1.2lbs
LUMIX G VARIO 14-42mm / F3.5-5.6 II ASPH. / MEGA O.I.S.	GX Standard Port M67	GX Magnet Ring 14-42 Set	Approx. 500g/1.1lbs
	GX Standard Port LD	GX Magnet Ring 14-42 Set	Approx. 514g/1.1lbs
	GX Standard Port M67	GX Standard Gear	Approx. 492g/1.1lbs
	GX Standard Port LD	GX Standard Gear	Approx. 506g/1.1lbs
LUMIX G VARIO 35-100mm / F4.0-5.6 ASPH. / MEGA O.I.S.	GX Standard Port M67 GX EXT. Ring 24	GX Standard Gear	Approx. 467g/1.0lbs
	GX Standard Port LD GX EXT.Ring 24	GX Standard Gear	Approx. 481g/1.1lbs
LUMIX G MACRO 30mm / F2.8 ASPH. / MEGA O.I.S.	MRS GX Macro Port M6	GX Magnet Ring 30 Set	Approx. 550g/1.2lbs
	MRS GX Macro Port LD	GX Magnet Ring 30 Set	Approx. 564g/1.2lbs
LEICA DG MACRO-ELMARIT 45mm / F2.8 ASPH. / MEGA O.I.S.	MRS GX Macro Port M6	GX Magnet Ring	Approx. 572g/1.3lbs
	MRS GX Macro Port LD	GX Magnet Ring	Approx. 586g/1.3lbs

Underwater weight is measured in fresh water (density = 1).
Actual measurement with camera/lens/battery/recording media in housing.
Actual weight may vary depending on individual product and measurement conditions.

After-sales Services

● Product inquiry

Contact your purchasing dealer or INON INC. for inquiry regarding your housing.

● Request for inspection and repair

Please contact your purchasing dealer. If you are unable to have the product inspected or repaired by your dealer, please contact us.

● Product Warranty

The product warranty is provided by a dealer/distributor. Warranty repair will be conducted under the conditions.

● Manufacture

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