



The only limit is your imagination ...



**Hugyfot** User Manual  
Vision Sony RX100 IV/V



# Hugyfot User Manual

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## History

In 1953, René Hugenschmidt is introduced to recreational diving in Nervi, Italy. From that moment on, he decides to dedicate his life to Underwater Photography. The young Swiss Engineer transformed his Zürichsee workshop into a Hugyfot plant, initially fabricating underwater housings for Agfa, Edixa, Exakta, Kodak, Leitz, Voigtländer, and Zeiss cameras.

Meanwhile, the Cousteau-Gagnan regulator is released and the world's first diving magazine is published in Paris. Professor Hans Hass, Austrian Marine Biologist and Underwater film pioneer, known for his documentaries Adventures in the Red Sea (1951) and Under the Caribbean (1954), sparks people's interest in the underwater world. The diving industry is starting to take shape ...

## Philosophy

At Hugyfot, our commitment to produce top quality underwater housings reigns supreme since 1953, distinguishing ourselves from the rest, thanks to our ergonomic designs, functionality, durable construction and attention to detail.

picture: Luc Eckehaut



Luc Leys,  
Managing Director

1953 ...



# 1. Introduction

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**Thank you for purchasing Hugyfot products.**

When traveling to remote areas to capture exceptional images, leave nothing to chance, as there might never be a second chance. Using reliable equipment is particularly important when shooting underwater photos and videos. Your Hugyfot Vision Sony RX100 IV/V underwater housing protects your Sony RX100 IV/V, while giving you swift and easy control over your camera. Underwater photography takes place in extreme environments, which call for a compact, reliable and ergonomically designed housing, capable of withstanding harsh conditions, letting you capture images with ease. Hugyfot is renowned for its ergonomic designs, functionality and experience manufacturing compact durable housings machined from solid blocks of marine grade aluminum. Traveling often involves keeping luggage to a minimum and Hugyfot housings prove to be your best choice, particularly when reliability, ease of operation and overall weight are determining factors.

Your Hugyfot Vision Sony RX100 IV/V housing is crafted using the state of the art Computer Aided Design and Computer Aided Manufacturing techniques, machined from a solid block of marine grade aluminum, anodized and finished with a durable Teflon coating. All buttons and knobs are hand fitted. Each housing is carefully inspected and pressure tested to ensure reliable and flawless operation before it leaves our plant.

**This User Manual provides step-by-step instructions on how to install your Sony RX 100 IV/V camera into your Hugyfot Vision Sony RX100 IV/V housing, helping to ensure correct functioning during dives. Read this User Manual carefully, take your time to review its content and practice these step-by-step instructions before diving.**



*Your Hugyfot Vision Sony RX100 IV/V housing is machined from a solid block of marine grade aluminum.*

## 2. Safety precautions

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**To prevent personal injury and/or damage to equipment, read this User Manual carefully, as well as your Sony RX100 IV/V owner's manual, and other accessories used in combination with your Hugyfot Vision Sony RX100 IV/V housing.**

To prevent personal injury:

- Only use battery packs specified in this User Manual and follow manufacturer's instructions.
- Remove leaking battery packs immediately from your Hugyfot Vision Sony RX100 IV/V housing. Leaking occurrences are extremely rare. Handling a defective battery pack must be done with care, avoiding exposure to bare skin, inhaling gas emissions or contact with fluids that could leak from a defective battery pack.
- Keep battery packs away from children.
- Dive within your level of training, maintain awareness of your depth, tank pressure and decompression limits at all times.
- Your Hugyfot Vision Sony RX100 IV/V underwater housing is designed to withstand depths of up to 655 feet (200 meters), well beyond recreational dive limits, as well as most technical dive depths. Stay within safety dive limits in keeping with your level of certification and expertise. Do not use your Hugyfot Vision Sony RX100 IV/V housing at depths beyond your training level and skills.

To prevent equipment damage:

- Never leave your Hugyfot Vision Sony RX100 IV/V housing in direct sunlight as heat buildup may exceed recommended temperature ranges, causing permanent damage to electronic components, including your camera.
- Your Hugyfot Vision Sony RX100 IV/V housing is designed to operate between 32°F and 122°F (0°C and 55°C).
- Do not use paint thinners, benzene nor harsh solvents to clean your Hugyfot Vision Sony RX100 IV/V housing, as these products will damage the finish of your housing, can cause fire and are harmful to your health.

## 3. Tips

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- Your Hugyfot Vision Sony RX100 IV/V housing is developed and machined with great precision. Treat it with care. Avoid dropping or exposing to impacts.
- The inside of your Hugyfot Vision Sony RX100 IV/V housing is not waterproof and must be kept dry at all times. Avoid water droplets from entering your housing. In the event salt water enters your housing, pad it dry immediately using an absorbent towel. Use a damp cloth to remove any salt crystals.
- Ambient humidity and temperature differentials may cause condensation inside your Hugyfot Vision Sony RX100 IV/V housing, particularly when moving it from cold to warm environments. Avoid condensation by keeping your housing in a sealed bag or an airtight case. Allow your housing to acclimate, then remove it from the bag or case. To reduce risk of condensation, do not open your housing between dives.
- If condensation forms inside your Hugyfot Vision Sony RX100 IV/V housing, do not use it. Open your housing, remove the camera, battery packs and allow condensation to completely evaporate before using it.
- Following any extended period of storage, check that your Hugyfot Vision Sony RX100 IV/V housing is operating properly before diving.
- Thoroughly rinse your Hugyfot Vision Sony RX100 IV/V housing in fresh water after each dive. Repeatedly push all buttons and levers while submerged to purge trapped water and flush internal spring mechanisms.
- Your Hugyfot Vision Sony RX100 IV/V housing has two (2) O-rings. Carefully inspect, service and lubricate each O-ring before diving.

**Hugyfot recommends having your Vision Sony RX100 housing serviced every 2 years, at a minimum, by an authorized Hugyfot service center.**

## 4. Housing overview



1. Sony RX100 IV/V housing
2. Fiber optic connections
3. Flat port (M67 filter thread)
4. Front window for battery pack status indicators
5. Shutter release (top)  
Video start/stop (bottom)
6. Zoom in/out (bottom/top)
7. Rotary secure lock mechanism
8. Aluminum handles with 1" ball mounts
9. Multipurpose tray
10. Buoyancy control weights
11. USB connector
12. HDMI connector
13. Hama Premium Alu Power Packs 12.000mAh (5h battery life), or approved equivalent
14. Monitor adjustment buttons
15. Dual O-ring system
16. Battery pack power "On/Off" buttons
17. Camera cradle
18. Camera cradle door locking lever
19. Monitor sun hood
20. Sony RX100 IV/V on/off control

## 5. Installing the monitor sun hood

**Install the monitor sun hood prior to using your Hugyfot Sony RX100 IV/V housing. This reduces glare, unwanted reflections and protects your monitor when opening or closing your housing.**

The sun hood of your Hugyfot Sony RX100 IV/V housing is fastened with 3 thumb nuts. To install the sun hood, loosen thumb nuts **(1)**. **Do not completely remove thumb nuts!**

Once all 3 thumb nuts are loose, install the sun hood by sliding it into place **(2)**. With the sun hood in place, carefully finger tighten the thumb nuts, securing it in place **(3)**.

With the sun hood installed, your Hugyfot Vision Sony RX100 IV/V housing can now be opened or closed, provided your housing is placed on a flat stable surface, with the monitor face down.



*The sun hood of your Hugyfot Sony RX100 IV/V housing is secured with 3 thumb nuts (left, top, right).*



## 6. Opening and closing the housing

**Your Hugyfot Sony RX100 IV/V housing is equipped with a rotary secure lock mechanism. Open or Close your housing by turning both rotary secure locks at the same time.**

### Opening the housing:

- Place your Hugyfot Sony RX100 IV/V housing on a flat stable surface, with the monitor face down. Ensure the monitor sun hood is installed prior to opening your housing (See step No. 5 - Table of Contents).
- Turn both Rotary secure locks at the same time until notches are facing up (see picture below).



- Once retaining pins are visible through the rotary secure lock notches, the front cover of your Sony RX100 IV/V housing can be lifted. Your housing is now open.



### Closing the housing:

- Place your Hugyfot Sony RX100 IV/V housing on a flat stable surface, with the monitor face down.
- Your Hugyfot Sony RX100 IV/V housing has two (2) O-rings. Carefully inspect, service and lubricate each O-ring before diving.
- Turn both Rotary secure locks at the same time until notches are facing up (see picture below).



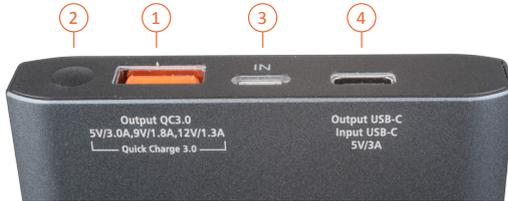
- Place the front cover of your Hugyfot Sony RX100 IV/V housing over the back part where the rotary secure locks are located. Align cover retaining pins properly in place, then proceed to turn both rotary secure locks at the same time until retaining pins are securely locked. Your housing is now closed.



## 7. Installing the battery pack

Your Hugyfot Vision Sony RX100 IV/V housing is equipped with 2 battery packs that power the HDMI 7" monitor and your Sony RX100 IV/V. **Fully charge the battery packs prior to use.**

The battery pack that powers the monitor is equipped with a USB power outlet (5V/3.0A, 9V/1.8A, 12V/1.3A) (1), a push button to activate the battery pack (2), a charging socket (3) and a USB-C power outlet (4). Use the USB power outlet to power the monitor (1).



The battery pack that powers the camera is equipped with a USB power outlet (5V/2.0A) (1), a push button to activate the battery pack (2), a charging socket (3) and a USB power outlet (5V/1.0A) (4). Use the USB (5V/2.0A) power outlet to power the camera (1).



Camera battery pack



Monitor battery pack



Spacer for monitor battery pack

### Step 1: installing the monitor battery pack

- Install the spacer for the monitor battery pack (1);
- Place the monitor battery pack in the tray, confirm “On/Off” switch aligns with top red push button (2);
- Tilt battery pack towards you, connect USB battery pack to monitor using the 5A power outlet (3);
- Seat the battery pack allowing it to lay flat against the tray. It should click into place (4);
- The battery pack is now securely installed.



## Step 2: installing the camera power bank

- Place camera battery pack in the tray, confirming that the “On/Off” switch aligns with bottom red push button (1);
- Connect USB battery pack to camera USB power using the 2.1A outlet (2);
- Seat the battery pack allowing it to lay flat against the first battery pack. It should click into place (3);
- The battery pack is now securely installed.
- Place the bungee over batteries to hold them in place (4).



## 8. Installing the Sony RX100 IV/V camera

**Prior to installing your Sony RX100 IV/V into your housing, set the mode selector to Program mode (M) (1).**

- Open the camera cradle door by pulling the lever as indicated below (2);
- Fully open the camera cradle door (3);
- Connect the USB-C and HDMI cables to your Sony RX100 camera (4);
- Put your Sony RX100 IV/V camera into the camera cradle (5);
- Close the camera cradle door by pushing cradle door locking levers as indicated (6).

**The housing is now ready to be closed (See step No. 6 - Table of Contents - opening and closing your housing).**





## 9. Powering battery packs “On/Off”

With both battery packs and Sony RX100 IV/V installed, your Hugyfot Vision Sony RX100 V housing is ready to use.

- To power the monitor battery pack, holding your housing by the handles facing the monitor, briefly press the top red button on the left-hand side of the housing (1);
- To power it down, push the button holding it for 3 seconds;
- To power the Sony RX100 IV/V battery pack, briefly press the bottom red button on the left-hand side of the housing (2);
- To power it down, push the button holding it for 3 seconds;
- With both battery packs “On”, and the Sony RX100 IV/V powered up, your monitor should be displaying images from your Sony RX100 IV/V.



The battery packs are equipped with 4 blue LED's to help estimate available power (1 LED: 25%, 2 LED's: 50%, 3 LED's: 75%, 4 LED's: 100%). To review how your battery packs are doing while diving, simply peek through the small front window of your housing (3).

## 10. Charging the battery packs

Battery packs can be charged in place, or removed from the housing.

To charge the battery packs in place:

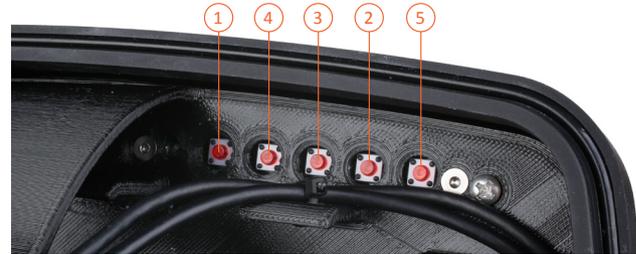
- Power down your Sony RX100 IV/V;
- Power down the battery packs;
- Connect a USB charging cable to the input port of the battery pack (1);
- LED's blink when charging, gradually increasing with charge level;
- A fully charged battery pack displays 4 solid LED's;
- Once your battery pack is charged, disconnect charging cable.



## 11. Adjusting the monitor

The HDMI 7" monitor of your Hugyfot Sony RX100 IV/V housing can be adjusted to suit personal preferences. With your housing open, you can make adjustments using the push buttons.

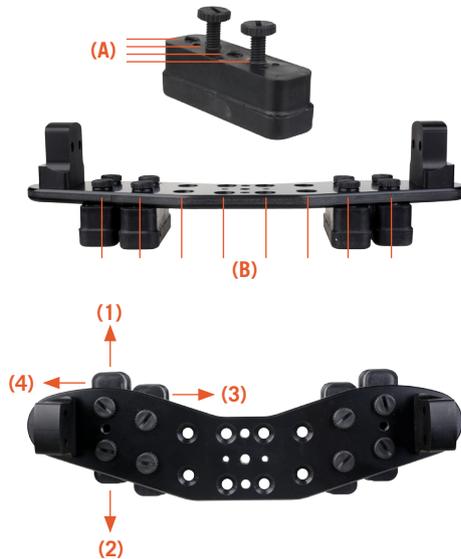
- Monitor power "On/Off" switch (leave "On") (1);
- Menu (Brightness, Contrast, Saturation, ... (2);
- Increase (+) value of selected setting (3);
- Decrease (-) value of selected setting (4);
- Screen mode (5).



## 12. Buoyancy control

Your Sony RX100 IV/V housing has a positive buoyancy of 544gr in salt water. It comes with 4 weights (136gr each) that can be used to make it 100% neutrally buoyant in case no lights or other accessories are being used.

In order to make your Vision Sony RX100 IV/V housing 100% neutrally buoyant (no extra accessories added) fix all 4 weights as indicated on the pictures below. You will have to remove both handles to get access to the upper part of the lower wing. Each weight has 4 screw holes (A) and the wing has 8 rows of holes (B). By moving the weights to the front (1) or to the back (2) and to the inside (3) or outside (4), the housing buoyance position can be trimmed if required.



## 13. Recording video and taking photos

With you Sony RX100 IV/V installed, battery packs fully charged, O-rings checked and your housing closed, you are ready to start recording videos and taking photos.

Start by powering up the monitor. Hold your housing by handles facing the monitor, press the top red button on the left-hand side of the housing, hold for 1 second (1).

Power up your Sony RX100 IV/V. Hold your housing by handles facing the monitor, press the red button on the upper right-hand side of the housing, hold for 1 second (2).

When your Sony RX100 IV/V is running on its internal battery, you can extend recording time by powering up the Sony RX100 IV/V battery pack by pressing bottom red button on the left-hand side of the housing, hold for 1 second (3).

Confirm monitor displays images from your Sony RX100 IV/V.

Press the shutter release top to take a picture and bottom to start recording video. Hugyfot recommends consulting your Sony RX100 IV/V owner's manual. Familiarize with its icons, messages and settings. Your housing's HDMI 7" monitor displays Sony RX100 IV/V icons when recording video, standing by or taking photos, as well as general settings. You can assess battery life, available memory and other relevant information. Consult your Sony RX100 IV/V owner's manual for details.

More tips and tricks on how to set your Sony RX100 controls can be found on the Vision Sony RX100 product page at [www.hugyfot.com](http://www.hugyfot.com)



## 14. Video lighting system

### Your Hugyfot Sony RX100 V housing can be upgraded with LED video lights.

When filters can't get the job done, a video lighting system is the perfect solution, enhancing performance of your Hugyfot Vision Sony RX100 IV/V housing.

Hugyfot recommends using the Arius 1500 video lighting system (sold separately).

Use video lights when:

- Diving in conditions with low ambient light.
- During night dives.
- Deep dives.
- Macro videography or photography.
- Capturing natural vivid colors.

Hugyfot Arius 1500 video lights are equipped with 4 'true color' LEDs, producing 1,500 lumen at 5,700 Kelvin color temperature, sporting a wide 120° of top shelf quality beam, free of hotspots and powered by a rechargeable Li-Ion battery that provides 1 hour of continuous light at full power.

When paired with the Hugyfot Arius 1500 video lighting system, your Hugyfot Vision Sony RX100 IV/V housing is a formidable piece of equipment designed to maintain 100% neutral buoyancy. This configuration requires all four weights be installed.

## 15. Connecting strobes

Your Sony RX100 IV/V housing is equipped with 2 fiber optic connector ports on top of the housing. These ports are compatible with Sea & Sea and Inon fiber optic cable systems. The plug at the end of a Sea & Sea or Inon fiber optic cable fits in the fiber optic connector ports on top of the housing. When using this system, the internal strobe has to be popped up so it can trigger the external strobe by sending its light through the fiber optic cable.



## 16. Maintenance

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### Hugyfot Arius 1500 lights:

- When using Hugyfot Arius 1500 lights, Hugyfot arms and clamps, consider breaking down and dismounting lights, arms and clamps during the rinse. This will reduce saltwater crystals for appearing along joints, around buttons and levers, reducing chances of damage from corrosion and prevent fusion in place.

### O-rings:

- Inspect, service and lubricate the O-rings of your Hugyfot Vision Sony RX100 IV/V housing before diving.
- Your Hugyfot Vision Sony RX100 IV/V housing has two (2) O-rings. Carefully remove them using a thin plastic card, or a plastic O-ring picker. Never use a screw driver, knife, pliers, tweezers or any sharp metal as this will damage your O-rings and permanently deform the grooves of your housing.
- Shore diving in sandy areas or where fine particles are in suspension from currents or surf, increase the chance of unwanted particles, grains of sand or debris from adhering to the O-rings of your Hugyfot Vision Sony RX100 IV/V housing. We recommend you inspect, service and lubricate your O-rings immediately after opening your housing.
- When cleaning O-rings, find a well-lit place free of dust, hair, sand or debris. Take your time and gently run your fingers along the O-ring. Don't pull or stretch it. Your fingers are the best way to determine the presence of unwanted particles.
- If available, run your O-rings under the faucet. Use room temperature tap water, carefully removing unwanted particles by rubbing one O-ring at a time between your fingers. If needed, feel free to apply a dab of dish soap, thoroughly rinse under the faucet, then let your O-rings air dry.
- Discard and replace any damaged O-ring. Attempting to use a damaged O-ring can compromise a watertight seal.
- Service the grooves of your Hugyfot Vision Sony RX100 IV/V housing by running a foam makeup applicator or a lint-free cloth. Cotton swabs have fibers; therefore, we do not recommend their use. Remove unwanted particles,

grains of sand, hair, fibers or any debris from the grooves where your O-rings sit.

- Once your O-rings have air dried, proceed to lubricate them with a small amount of Hugyfot silicone grease. Do not over lubricate the O-rings. Ideally, a uniformly applied thin coat or sheen is what you end up with. To accomplish this, place a very small dab of Hugyfot silicone grease between our thumb and index finger, gently running one O-ring at a time, to uniformly coat its surface. Over lubricating is a common mistake, which carries unwanted consequences, attracting hair, unwanted particles and debris that could potentially compromise a watertight seal. Do not over lubricate your O-rings.
- Once the grooves of your Hugyfot Vision Sony RX1000 IV/V housing are clean and your O-rings are lubricated, proceed to sit them one at a time. Inspect to ensure both O-rings are in place, in their grooves. Confirm that, sand, hair, fibers nor any unwanted particles are present. Proceed to close your housing.
- When traveling by air, remove both O-rings before your trip, place them in a zip top bag and keep them inside your Hugyfot Vision Sony RX100 IV/V housing. This will reduce risk of dislodged O-rings from pressure differentials or an un-wanted vacuum seal from occurring. Inspect, service and lubricate both O-rings once you reach your destination and before diving it.
- When storing your Hugyfot Vision Sony RX100 IV/V housing for a prolonged period of time, follow the suggested travel by air tip above. This will keep your O-rings relaxed, prolonging useful life.
- Have your Hugyfot Vision Sony RX100 IV/V housing serviced every 2 years, at a minimum, by an authorized Hugyfot service center. Visit our website at: [www.hugyfot.com](http://www.hugyfot.com) for a list of authorized Hugyfot dealers and service centers near you.

Spare O-rings for your Vision Sony RX100 housing can be purchased online from [www.dafactory.eu](http://www.dafactory.eu)

## Your Vision Sony RX100 IV/V Maintenance Log

<b>Housing serial number:</b> .....	<b>Factory Quality control &amp; pressure test (date):</b> .....	stamp
<b>Housing full service / Quality control &amp; pressure test</b> <b>Date:</b> .....	<b>Hugyfot Service Center</b> .....	stamp
<b>Housing full service / Quality control &amp; pressure test</b> <b>Date:</b> .....	<b>Hugyfot Service Center</b> .....	stamp
<b>Housing full service / Quality control &amp; pressure test</b> <b>Date:</b> .....	<b>Hugyfot Service Center</b> .....	stamp

<p><b>Housing full service / Quality control &amp; pressure test</b></p> <p><b>Date:</b> <b>Hugyfot Service Center</b></p> <p>.....</p>	<p>stamp</p>
<p><b>Housing full service / Quality control &amp; pressure test</b></p> <p><b>Date:</b> <b>Hugyfot Service Center</b></p> <p>.....</p>	<p>stamp</p>
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<p><b>Housing full service / Quality control &amp; pressure test</b></p> <p><b>Date:</b> <b>Hugyfot Service Center</b></p> <p>.....</p>	<p>stamp</p>

## Personal notes

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A series of horizontal dotted lines for taking notes.





*Fits your camera like a glove*



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