

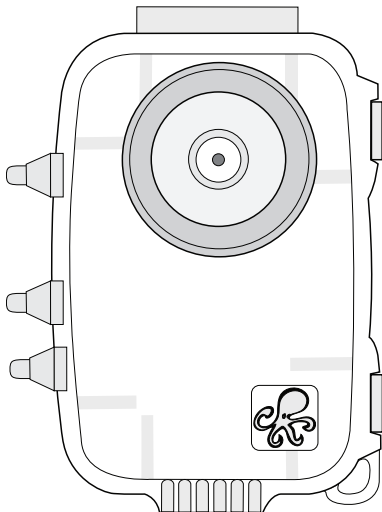


Compact Video Housing

instruction manual

#5651.10 JVC Piccio GC-WP10AU Video Camera

#5651.11 JVC Piccio GC-WP10AU Video Package



Thank you for your purchase of Ikelite equipment. Please read this instruction manual completely before attempting to operate or dive with this product.

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Product Registration

Please take a moment to fill out the online **Ikelite Product Registration** form at <http://www.ikelite.com/forms/regForm.htm>.

Package Contents

- Compact Video Housing
- Diffuser
- Silicone Lubricant
- Deflector
- Lanyard
- Extra Control Tips
- UR/Pro Color Correcting Filter

Housing Size and Weight:

5.5 in. wide x 4.5 in. high x 3.0 in. deep (including controls and lens port).

140mm x 114mm x 76mm.

Less than 1.2 lb (544g) above water.

Slightly positive buoyancy underwater.

Preparation

This product has been water pressure tested at the factory and is depth rated to 200 ft. (60m). Thoroughly inspect and immerse the empty housing completely in water before installing a camera. If any fogging occurs or droplets of water enter the housing, do not install a camera. Clean the housing main o-ring and retest to make sure that it is watertight. Refer to the Troubleshooting section, page 11.

We suggest that you read this instruction booklet thoroughly before use to have a full understanding of where each camera control is located, and what function each control provides. Please read your camera manual thoroughly to have a full understanding of each camera function. If you are new to underwater photography, be sure to read the Video and Photo Tips section - page 10.

Due to the power required to operate the camera and LCD screen start each dive with a fully charged camera battery.

Initial Camera Setup

- Read the camera manual thoroughly to obtain a full understanding of each camera function before attempting to use inside of the housing.
- Turn off the camcorder. Connect the camcorder to a computer with the USB cable to fully charge the camcorder battery.
- Insert and format an SD memory card.
- Set the date and time.
- To assure that your camcorder is operating properly, try recording and playback modes before placing your camera in the Ikelite Compact Video Housing.

Opening the Housing

1. Place the housing face down in your lap or on a flat surface.
2. Depress opposing latch buttons simultaneously to open housing, diagram A. Once the latch is unlocked, rotate the latch handle up and away from the housing until it stops. This motion will also break the housing o-ring seal and open the housing back slightly, diagram B.

NOTE: Latch must be rotated to the fully open position to assure easy opening of the back. Rotate the hinged back to it's open position.

Diagram A

Top View - Latch Closed

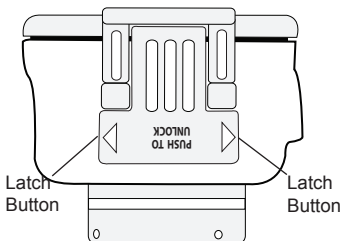
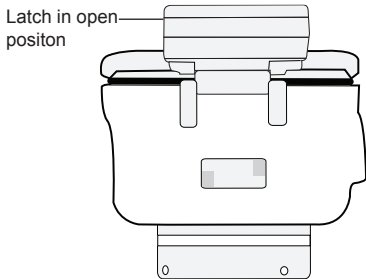


Diagram B

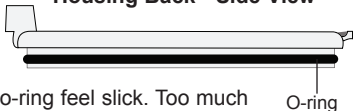
Top View - Latch Opened



Main Housing O-ring

Check to see that there is an o-ring on the housing back and that it is clean, **lightly lubricated**, and in its proper location, diagram C. Only apply enough lubricant to make the o-ring feel slick. Too much lubricant can attract debris and adversely affect the housing seal. Too little lubricant can result in difficulty closing the housing.

Diagram C
Housing Back - Side View



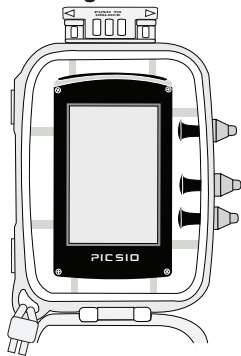
Installing the Camera

Place the camera face down into the front housing ribs as shown, diagram D.

Closing the Housing

Rotate the hinged back onto the housing front. Close the latch and make sure it locks. Latch will “click” into its locked position. Latch buttons will NOT be depressed when latch is properly locked - diagram A, page 4.

Diagram D



Safety Check

Inspect the o-ring seal through each side of the housing. A good seal should appear as a solid black line. Make sure that no stray hairs, lanyards, or other objects cross the o-ring seal.

Usage

Turn Camera On

Turn the camera on and operate each of the housing controls to get a feel for using the camera in the housing.

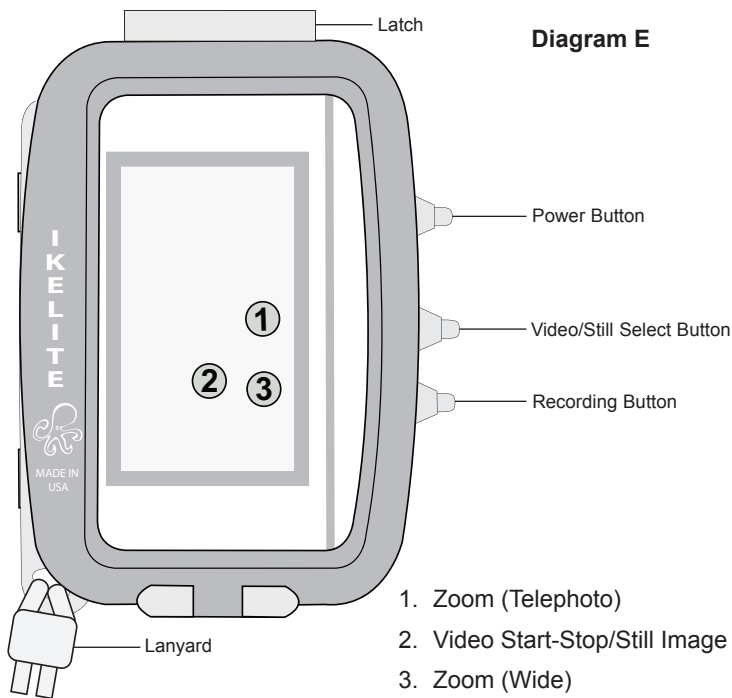
You are now ready to shoot underwater video.

Entering the Water

As soon as you enter the water, take a moment and check the housing to see that it is properly sealed.

Next, check to see if there are any bubbles on the face of the lens port. If there are, take your finger and remove them. If there are bubbles on the lens port they can produce soft focus spots in your photos or video.

Parts of the Housing - Back View



Maintenance

Lens Port

Treat the glass in the lens port as a camera lens. After use, rinse and gently dry the outside lens port to avoid water spotting. To clean, use a mild soap solution or lens cleaner. Do not rinse the inside port glass. ***Do not use alcohol or window cleaner on the Lens Port.***

Control Maintenance

Ikelite controls are designed to provide years of reliable service with minimal maintenance.

Push button controls require no maintenance other than rinsing in fresh water after saltwater use. If a push button control becomes difficult to push, or if it sticks when depressed, soak the housing in luke warm fresh water. After a few minutes operate the push button. If this does not correct the problem, return the housing to Ikelite for routine maintenance.

If a housing control shaft becomes “sticky” and hard to operate, return the housing to Ikelite for routine maintenance.

Lubricant

Ikelite provides silicone lubricant with the housing. We recommend you use only Ikelite lubricant on Ikelite products. Other brands may cause the main housing o-ring to swell and not seal properly.

Use only enough lubricant to lightly cover the main housing o-ring or lubricate a sticky control. Wipe off any excess lubricant with a clean cloth. Lubricant is not a sealant, it is used to reduce friction. Excessive lubricant can collect sand and dirt which may interfere with proper sealing.

CAUTION:

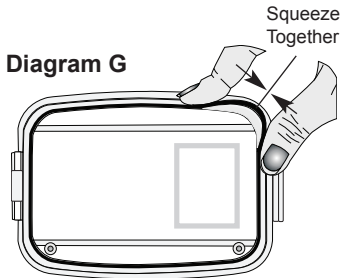
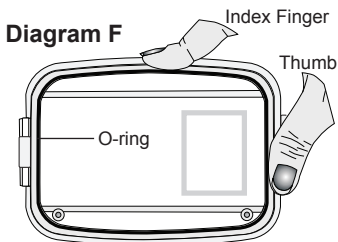
Never use spray lubricants as the propellant ingredient can cause the plastic housing to crack or o-rings to swell.

O-ring Maintenance

We recommend that you clean the main housing o-ring and main housing o-ring channel before each day of diving.

1. To remove the o-ring, place index finger and thumb on the o-ring as shown, diagram F.
2. Squeeze the o-ring into a loop by pressing down on the o-ring and squeezing your index finger and thumb together, diagram G.
3. Grab the o-ring loop with your other hand and remove the o-ring from the housing back.
4. Wipe the o-ring channel clean with a paper towel, napkin, or lint-free wiping cloth.
5. Clean and **lightly lubricate** the o-ring. Use Ikelite lubricant only. Put a small amount of Ikelite lubricant on your fingers. Pull the o-ring through your fingers to apply a light coating of lubricant. Apply only enough lubricant to make the o-ring feel slick. **Do not stretch the o-ring.** This light coating of lubricant will help to keep the o-ring from drying out and will help to show a dark sealing line when the housing back is properly sealed.
6. Very lightly lubricate the o-ring sealing surface on the housing front.

CAUTION: Never use a screwdriver or metal object to remove the main housing o-ring. This could damage the housing and o-ring, which could result in a leak.



Housing Maintenance

In addition to normal maintenance, we recommend that the housing be returned to Ikelite periodically to be checked and pressure tested.

- **Do not** leave the camera and housing in direct sunlight for prolonged periods. Heat may damage the camera.
- **Do not** ship the camera in the housing.
- Keep the main housing o-ring clean and **lightly lubricated**. To lubricate, remove the o-ring from the back.

NOTE: Housing may be hard to open and close if the main housing o-ring is not properly lubricated.

- Keep the area where the o-ring fits and the sealing surface of the housing clean.
- If removing a housing push button is necessary, **do not** re-use the E-clip. Contact Ikelite for replacement E-clips (part 0319.12).
- Leave housing latch in the open position when not using the housing for extended periods.
- Rinse the housing exterior thoroughly in freshwater after each saltwater use. Move each push button in and out several times to release trapped saltwater. Dry housing with a soft cloth. Dry the lens port to eliminate water spotting. **Do not** use alcohol or window cleaner on the Lens Port. After several uses in saltwater, soak the housing exterior in a mild soap solution, rinse and dry before storing. When storing the housing, remove the main housing o-ring, lightly lubricate, and place in a plastic bag. Place the plastic bag with o-ring, inside the housing for safe keeping.

Video and Photo Tips

- The number one rule in underwater videography and photography is to eliminate as much water between the camera and subject as possible. Get as close as you can to the subject, then use the zoom if necessary.
- Shoot in clear water; do not stir up the sand or silty bottom.
- Many digital cameras have a slight lag time between when you press the shutter release button and the camera actually takes the picture. Hold the camera steady a second or two after pressing the shutter release button.
- Do not shoot down on subjects as they will quite often blend into the background and be difficult to see in a photograph. Shoot subjects straight on or shoot up at a slight angle using the blue water as a contrasting background.
- It is important to respect all living creatures underwater, including people, marine life, and coral. While we encourage people to get close to their subjects when taking a photograph, they should not touch, lie on, or in any way disturb the things they find underwater.

Troubleshooting

Problem	Solution
Water enters the housing	<ul style="list-style-type: none">- Remove, clean and properly lubricate the main o-ring.- Look for hairs, dirt, or foreign debris crossing the o-ring seal.- Reassemble the housing without a camera installed and pressure test or take diving.- Return housing to Ikelite for routine maintenance.
Pictures are too blue or too green	<ul style="list-style-type: none">- Add an optional color correcting filter.- Add external lighting- Move in closer to your subject when taking a picture.
Housing is hard to close	<ul style="list-style-type: none">- Lightly lubricate main housing o-ring, see page 8.- Make sure that the camera is installed correctly.
Push buttons or controls are sticky and hard to operate	<ul style="list-style-type: none">- Remove the camera and rinse the closed housing in freshwater. Vigorously press each push button in and out several times to release any trapped saltwater or debris.- If a control is sticky, grab the control knob, pull it out, and then push back in.- Return housing to Ikelite for routine maintenance.

Problem	Solution
Fogging occurs on the Lens Port	<ul style="list-style-type: none"> - Humid air is trapped inside the housing. The camera produces heat and may condense any trapped moisture forming fog on the lens port. Close the housing in an air-conditioned room or vehicle, or in front of an air-conditioner. - The housing should not be in direct sunlight for an extended period of time. - Purchase desiccant packs from a local camera store. Place one or two packs in your housing before each day of diving. - If moisture or water droplets are present around the controls or sealing areas, return the housing to Ikelite for evaluation. - Clean the main housing o-ring and sealing surface of the housing, see page 8.

Replacement Parts

Main Housing O-ring 0132.45

Replacement Lanyard 0321.10

Replacement Vinyl Port Cover 0200.02

Ikelite Lube 5020 (4 - 1cc tubes)

For light lubrication of the main housing o-ring.

Recommended Accessories

A full range of accessories is available to support your housing. Please visit http://www.ikelite.com/web_two/jvc_wp10.html to see the most current information about recommended accessories.

Trays and Handles

Optional trays and handles are available for comfortable handling underwater and to allow for the attachment of external lighting.

Video Lighting

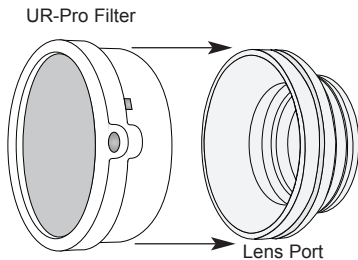
External video lights add color when using the video/movie mode of your camera. Primary video lights are specially color balanced to provide natural tones.

Travel Cases

The optional Travel Bag is the perfect carry-on for your compact system. Padded sides and divider provide just the right amount of protection for your photo equipment, laptop, electronic devices and personal items.

External Color Correcting Filters

The included UR/Pro color correcting filter for tropical blue water settings replaces some of the reds and more natural tones that would otherwise be lost underwater. Effective in relatively shallow, sunny conditions. An optional removable color filter is available separately for use in green water settings.



Recommended Accessories - continued

External Accessory Lenses

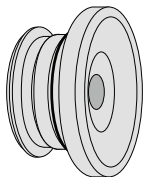
An external wide angle conversion lens increases angle of coverage so you can get much closer to your subject while still fitting everything in the frame. By reducing the amount of water between the subject and your camera lens, the resulting image will be more crisp and colorful.

Attach 67mm threaded #6420 Ikelite W-20, Inon Type II, and Epoque wide angle and macro lenses using the #9306.78 Port Adapter.

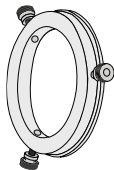
The W-20 lens accepts color filters #6441.42 for tropical blue water and #6441.82 for green water, sold separately.

Attach bayonet style Inon macro and UWL-100 28AD, UWL-105AD or UFL-165AD wide angle lenses using the #9306.85 port adapter.

Slight vignetting may be present when using wide angle accessory lenses in the Still (photo) mode.



#6420 W-20 Lens



#9306.78 Adapter

Technical Support

Please read the troubleshooting section of this instruction manual before contacting technical support.

Ikelite Technical Support

Email: ikelite@ikelite.com

Phone 317.923.4523

Fax 317.924.7988

Returning Products for Service

Ikelite is most interested in performing any service to ensure that all products perform as intended. Evidence of purchase date must be provided to obtain warranty service.

No prior authorization is required. You may return directly to us or through your dealer. Please include a brief description of the problem, any relevant email correspondence, and/or instructions on what you want us to do. Always include name, shipping address, email address, and phone number inside of the package. Send postage paid to:

Ikelite Underwater Systems
Attention Service Department
50 West 33 Street
Indianapolis, IN 46208 USA

No reimbursements for postage paid will be issued.

You may also want to insure the package.

Returning Products for Service (outside the United States)

For the separate international customs documentation form that you complete to accompany the shipment, please state or designate that the enclosed products were originally manufactured in the USA and are being returned to the manufacturer for repair service. Value of the equipment listed for customs purposes should be zero.

Limited Warranty

This Ikelite product is warranted against any manufacturing defects for a period of one (1) year from the original date of purchase. Defective products should be returned to Ikelite postage paid. Ikelite will, at its sole discretion, repair or replace such products, and will return to customer postage paid. All other claims of any nature are not covered. Except as mentioned above, no other warranty expressed or implied applies to this Ikelite product.



**Ikelite Underwater Systems
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