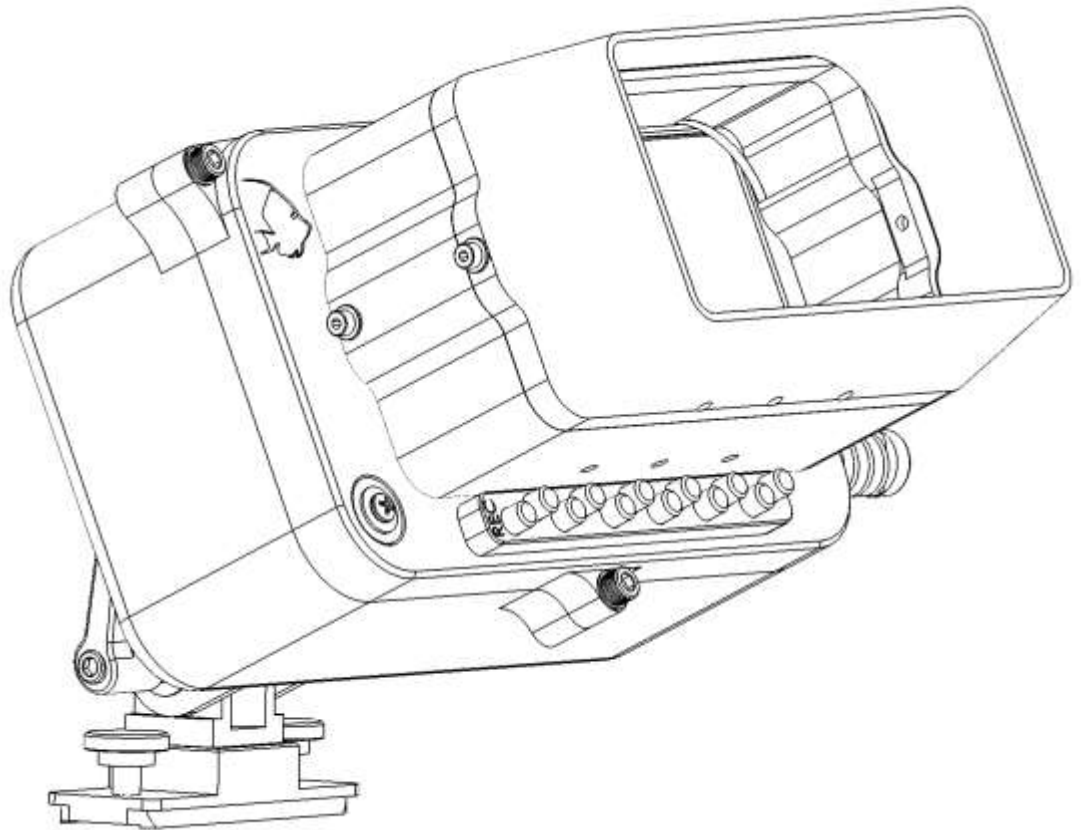




NVS Underwater Monitor Housing

Setup, Use, and Care Guide

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This manual and current revision is available in 8.5 x 11 size and full color at

GatesHousings.com

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1: Introducing the NVS

Congratulations on owning a new Gates product: the NVS Underwater Monitor Housing (NVS) for the ATOMOS family of LCDs: Ninja V, Shinobi, and Shinobi SDI. You've selected an underwater imaging tool that will provide years of value and reliable service.

Please read through this entire guide to learn about the NVS so you can get the most out of this imaging tool. In this section, we'll introduce you to the features of the monitor housing so you can get started.

Features

The NVS has several key features:

- ☐ **'Bulletproof' construction.** Gates legendary reliability is inherent in the NVS: machined aluminum shell, stainless hardware and reliable mechanical controls.
- ☐ **Designed specifically for the** ATOMOS Ninja V, Shinobi, and Shinobi SDI LCDs to create the smallest, most compact and low-profile Underwater Monitor housing.
- ☐ **Bright 1000 nit LCD** with numerous focus / exposure tools.

Warranty Disclaimer

The NVS is a tool that, like any tool, requires knowledge and understanding to be effective.

Your responsibility is to learn the proper setup, use and care of the monitor housing. Because we can only provide you with the information necessary to do so, Gates does not warrant the contents of your housing (e.g. electronics) under any circumstance.

We warrant the NVS as an image acquisition tool for a period of 2 years.

If you have any questions about the setup, use and care of the NVS, contact Gates directly. Details are in section 4.

Unpacking the NVS

After you remove the monitor housing from its shipping container, carefully inspect it for missing parts or damage that may have occurred during shipment. If you discover any discrepancies, contact Gates or your dealer immediately for assistance.

Standard Parts

- ☐ **NVS External Monitor Housing (NVS)**
- ☐ **NVS Shade**
- ☐ **Dovetail Swivel Mount.** May be attached to NVS
- ☐ **Spare Kit / Tool Kit**
- ☐ **O-Ring Removal Tool**

Optional Parts

- ☐ **Shade Extension(s)** *(Additional Shade Extensions are stackable and available for purchase.)*

Cautions

- ▶ **USER RESPONSIBILITY.** This Setup, Use and Care guide contains important detailed procedures for setup and use of the NVS. It is the user's responsibility to read, understand and employ these procedures. Failure to do so can result in poor or non-operation of the monitor housing and may void your warranty.

Contact Gates if you have questions regarding this manual or using the NVS.

2: NVS Setup

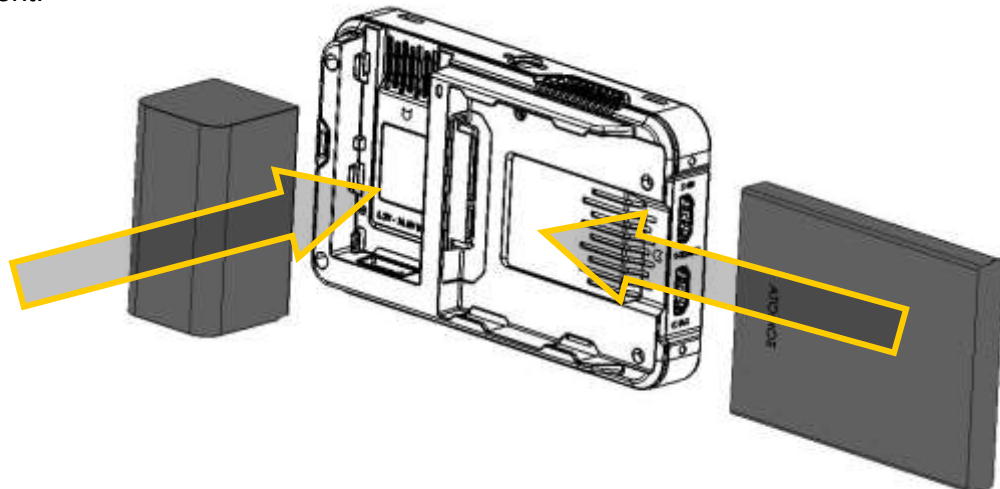
The NVS requires complete and thorough setup prior to use.

ATOMOS LCD Preparation

- ☐ **Install Media and Battery.** Note that SHINOBI SDI can optionally have external power from the camera or another power source inside the main housing. Batteries up to Sony NP-F770 size are compatible.
- ☐ **LCD Setup.** The row of touchscreen buttons at the display bottom are accessible within the NVS.

These buttons on the **NINJA V** LCD will adjust left / right to reveal different function options. Adjust them to the position desired.

These same buttons on **SHINOBI** and **SHINOBI SDI** are fixed, and require no adjustment.

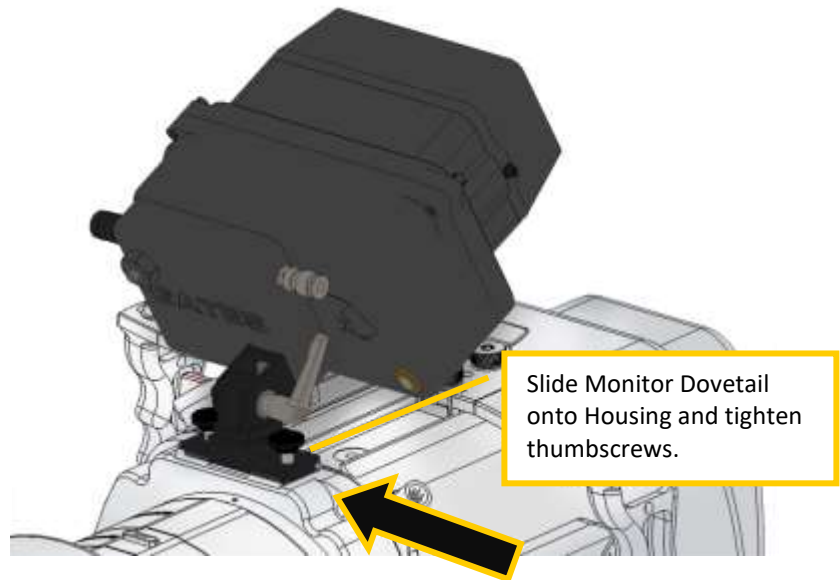


Touch screen buttons. Slide them left / right to reveal those desired for underwater use.



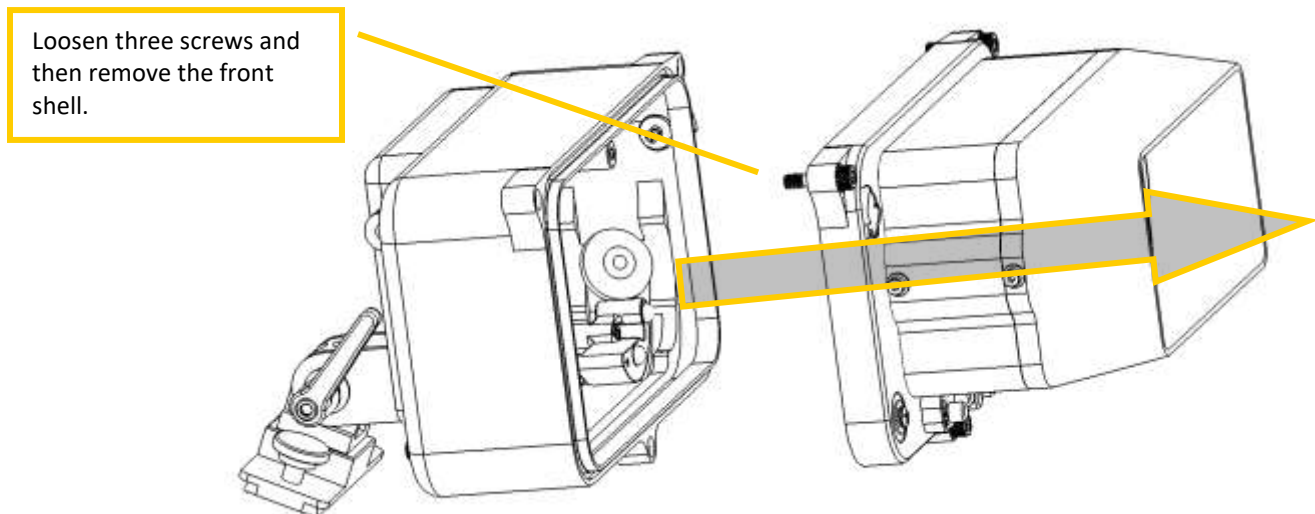
Secure NVS to Camera Housing

- ☐ **NVS Setup is best conducted** with it secured to a camera housing.
- ☐ **Refer to the image** for a typical mounting of the NVS to a housing.



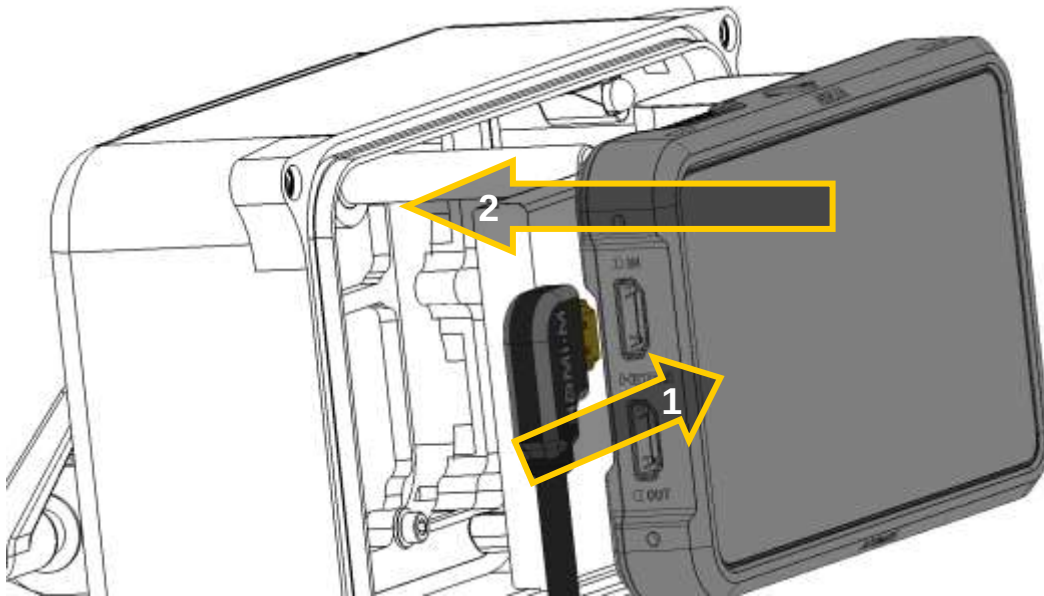
Open the Housing Shell

- ☐ **Loosen three screws** using the 5/32 ball driver. **These screws are captive** and will not remove. Refer to the image below.
- ☐ **Remove the front shell** to expose the LCD connector in the rear shell

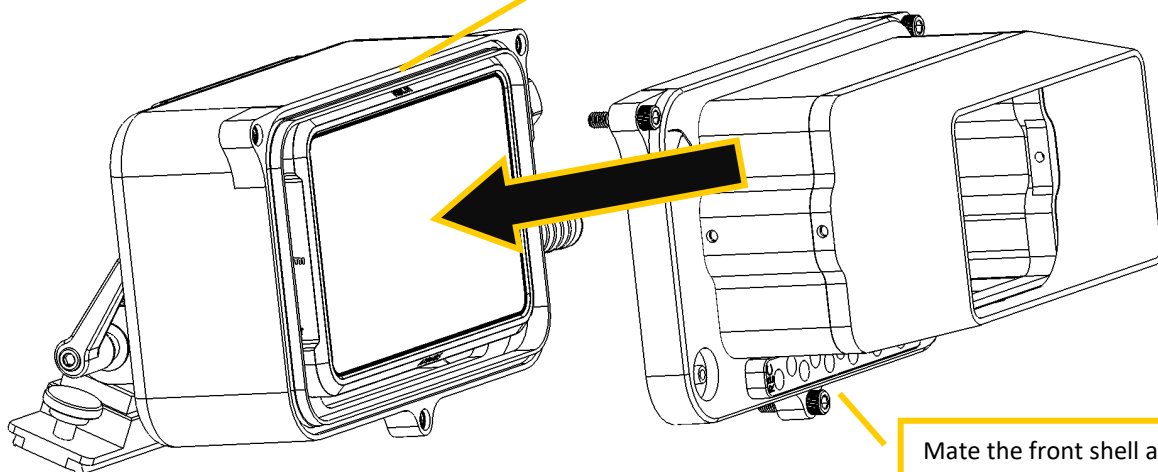


Insert Monitor to Rear Shell – NINJA V & SHINOBI

- ☐ **Connect HDMI to NINJA V** as shown. Then seat into the rear shell.
- ☐ **Make a visual check to verify the orange o-ring** is clean and free of any foreign matter.
- ☐ **Install the front cover.**
- ☐ **Tighten three screws** as shown in the image below. **DO NOT OVERTIGHTEN.**



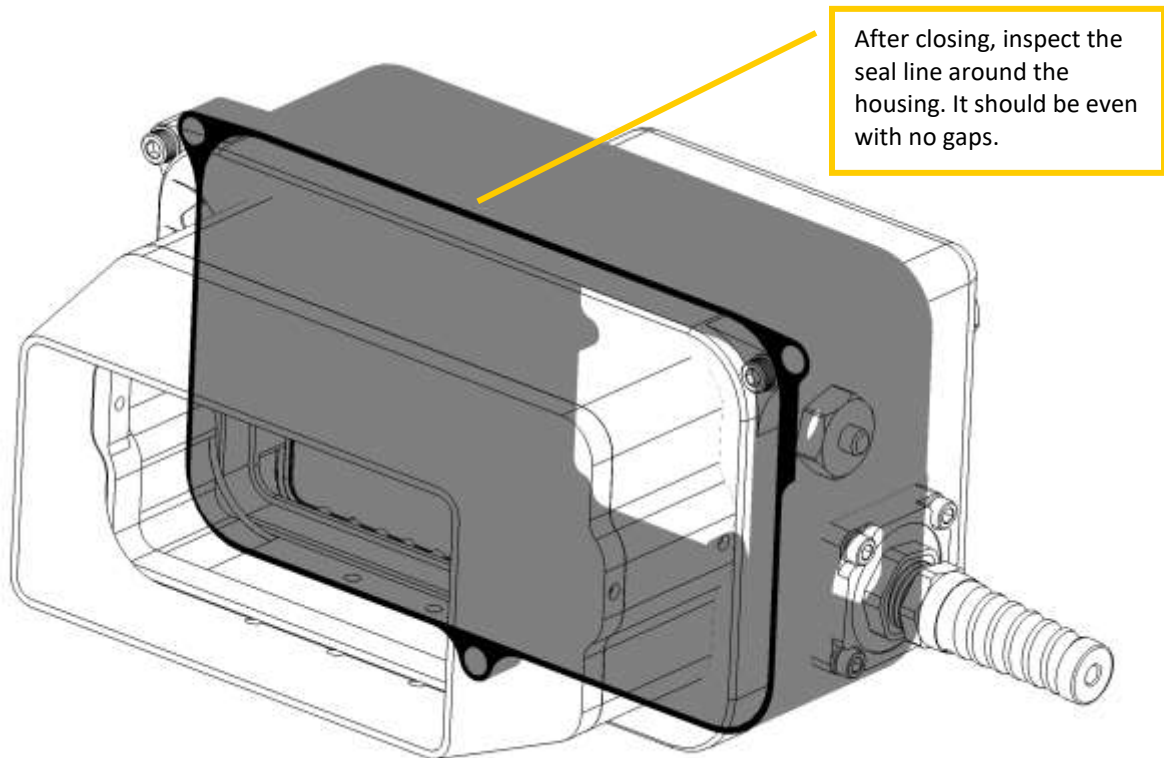
Insert the NINJA LCD into the rear shell. It will mate flush. Inspect the o-ring is clean.



Mate the front shell and tighten 3 screws. **DO NOT** overtighten.

Visual Check

- **Inspect the gap where front and rear shells meet.** Ensure it is even all around. Refer to the image below, shown in highlight.



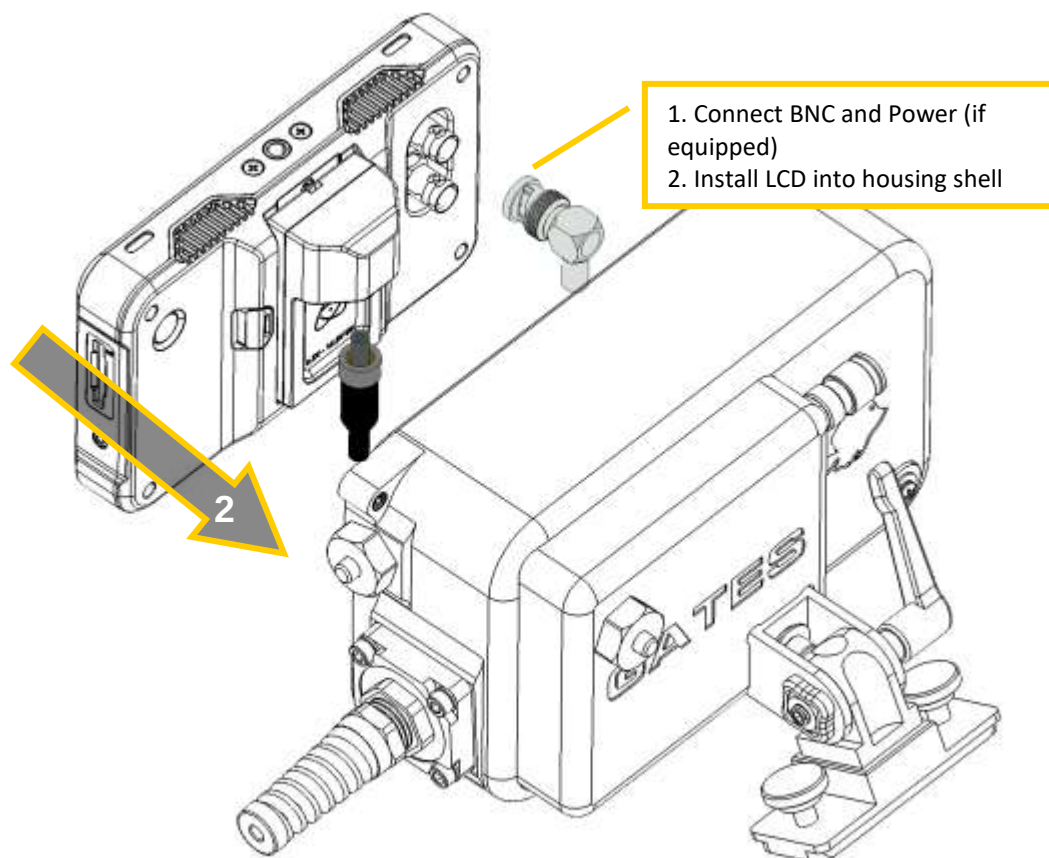
Insert Monitor to Rear Shell – SHINOBI SDI

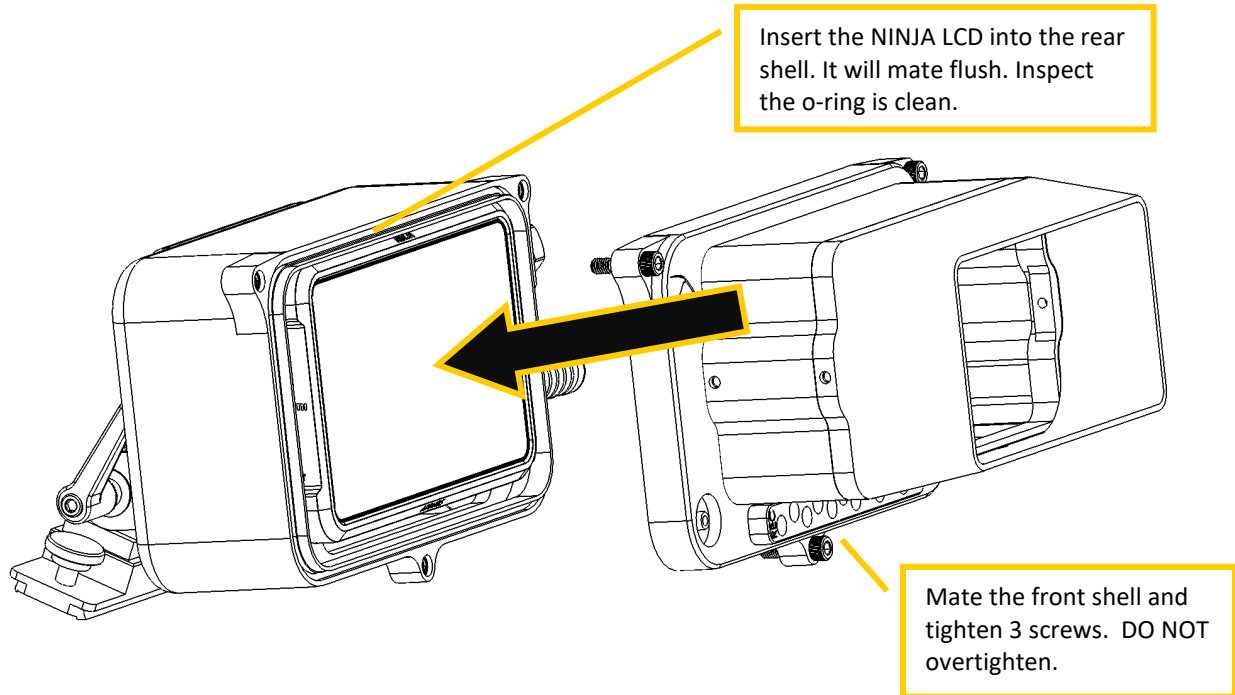
- ☐ **Connect BNC connector** as shown.

If using SHINOBI SDI, your cable configuration may include external power. If so, then plug in the power connector as shown.

Then seat SHINOBI SDI into the rear shell.

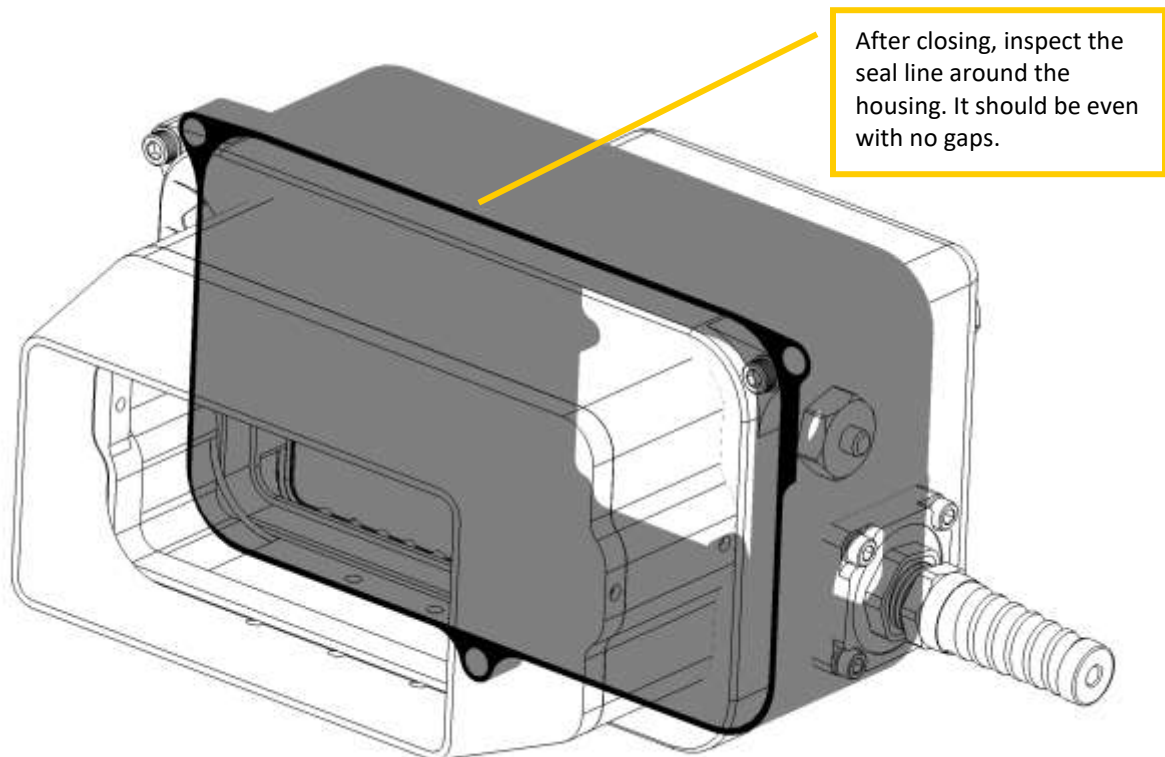
- ☐ **Make a visual check to verify the orange o-ring** is clean and free of any foreign matter.
- ☐ **Install the front cover.**
- ☐ **Tighten three screws** as shown in the image below. **DO NOT OVERTIGHTEN.**





Visual Check

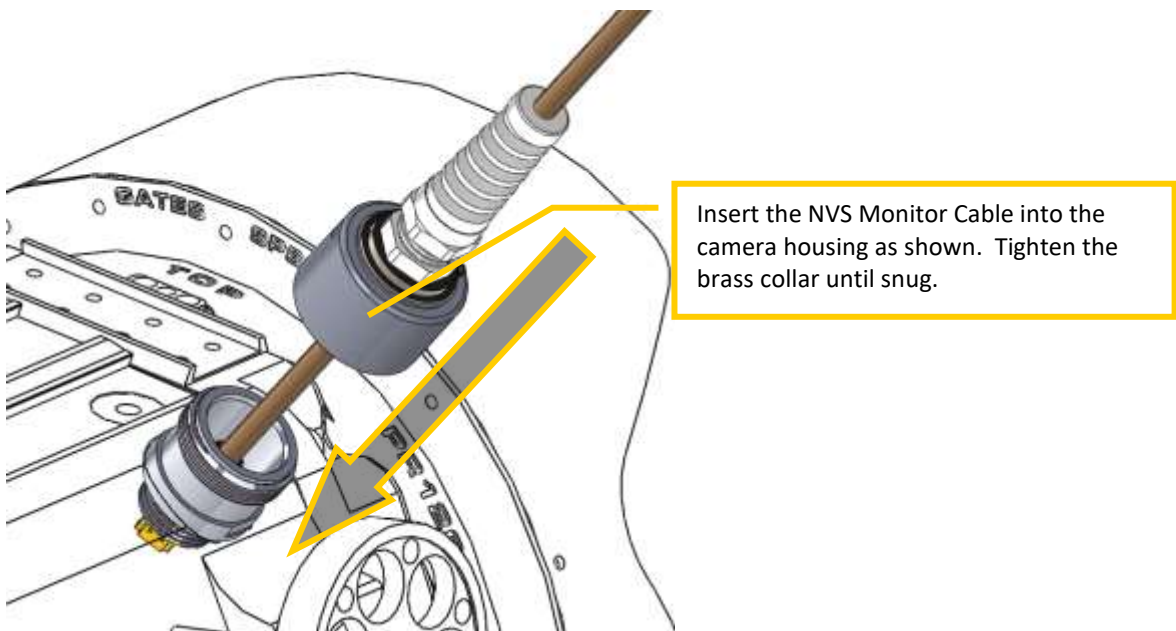
- ☐ **Inspect the gap where front and rear shells meet.** Ensure it is even all around. Refer to the image below, shown in black shading.



Connect to Camera Housing

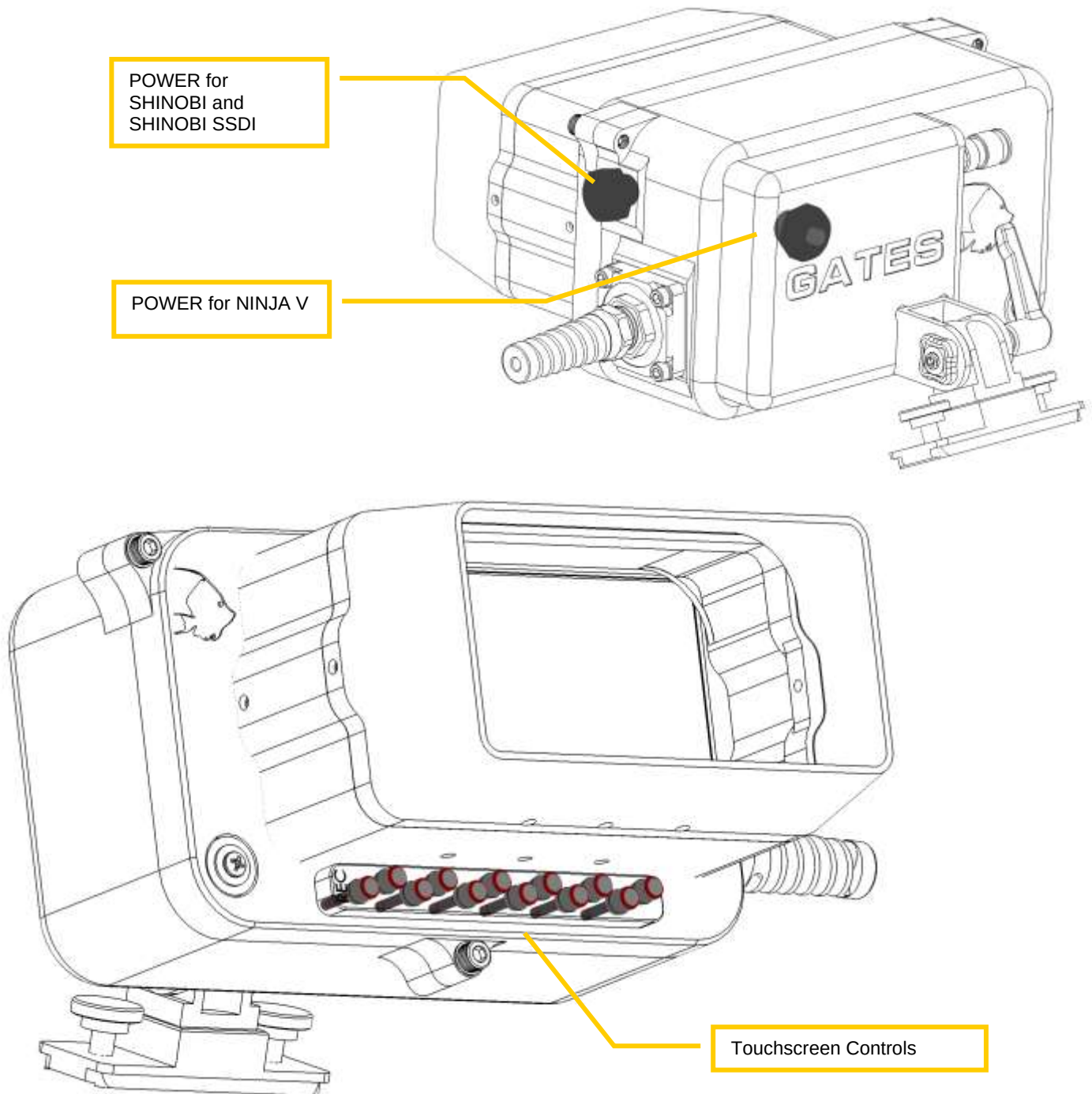
- ❑ **Insert the monitor cable** into the housing as shown below. Route the cable inside the main housing to connect with the camera.

Refer to your Gates Housing SU&C Guide for specific details on connecting to the camera.



NVS Controls

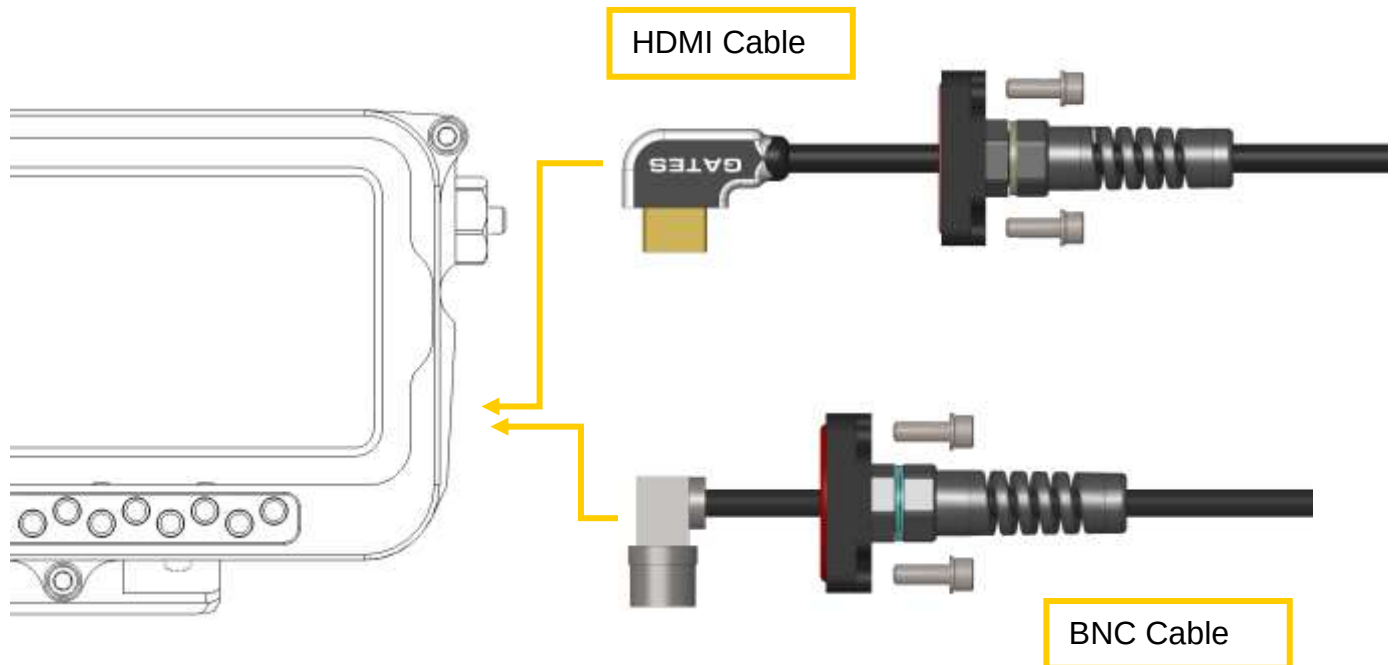
- ❑ **Power.** The power on / off button is located as shown below. Note that NINJA V and SHINOBI / SHINOBI SDI power buttons are in different locations
- ❑ **Touchscreen.** 12 Touchscreen controls are available with all three LCDs, and operate slightly differently depending on the model. Consult the ATOMOS user guide for details on each control.



NVS Cable Replacement

- Replacing the NVS cables is straightforward. Referring to the image below, use a 5/32 hex tool to remove 4 screws securing the Bulkhead Adapter to the housing shell. Carefully remove the cable with bulkhead adapter and replace with new.

Tighten the screws until snug. Do not overtighten.



3: NVS Maintenance

Housing Care and Maintenance

Proper care of your Gates housing is important to provide you reliable operation and long life. You'll find all the guidelines in the "Housing Care and Maintenance" document included with your Gates housing. You can also find it on Gates web site at www.GatesHousings.com.

O-Ring Care and Maintenance

Your Gates NVS has 1 serviceable o-ring. It is located on the main housing the front shell mates. Its color is orange.

Servicing the o-rings is easy and covered in the "Housing Care and Maintenance" document in this package. It can also be found on the Gates website at www.gateshousings.com.

- ▶ **CAUTION:** Do not lubricate the large orange o-ring! It is a special silicone o-ring and can be damaged by petroleum-based lubricants.

- ▶ **CAUTION:** Never use metal tools or objects for removing o-rings!

4: Customer Support

Should you have any questions about the NVS and its operation, please contact Gates at the numbers below.

Email: Customer.srv@GatesHousings.com

Web: <https://www.gateshousings.com/contacts/>

Phone: 858.391.0052