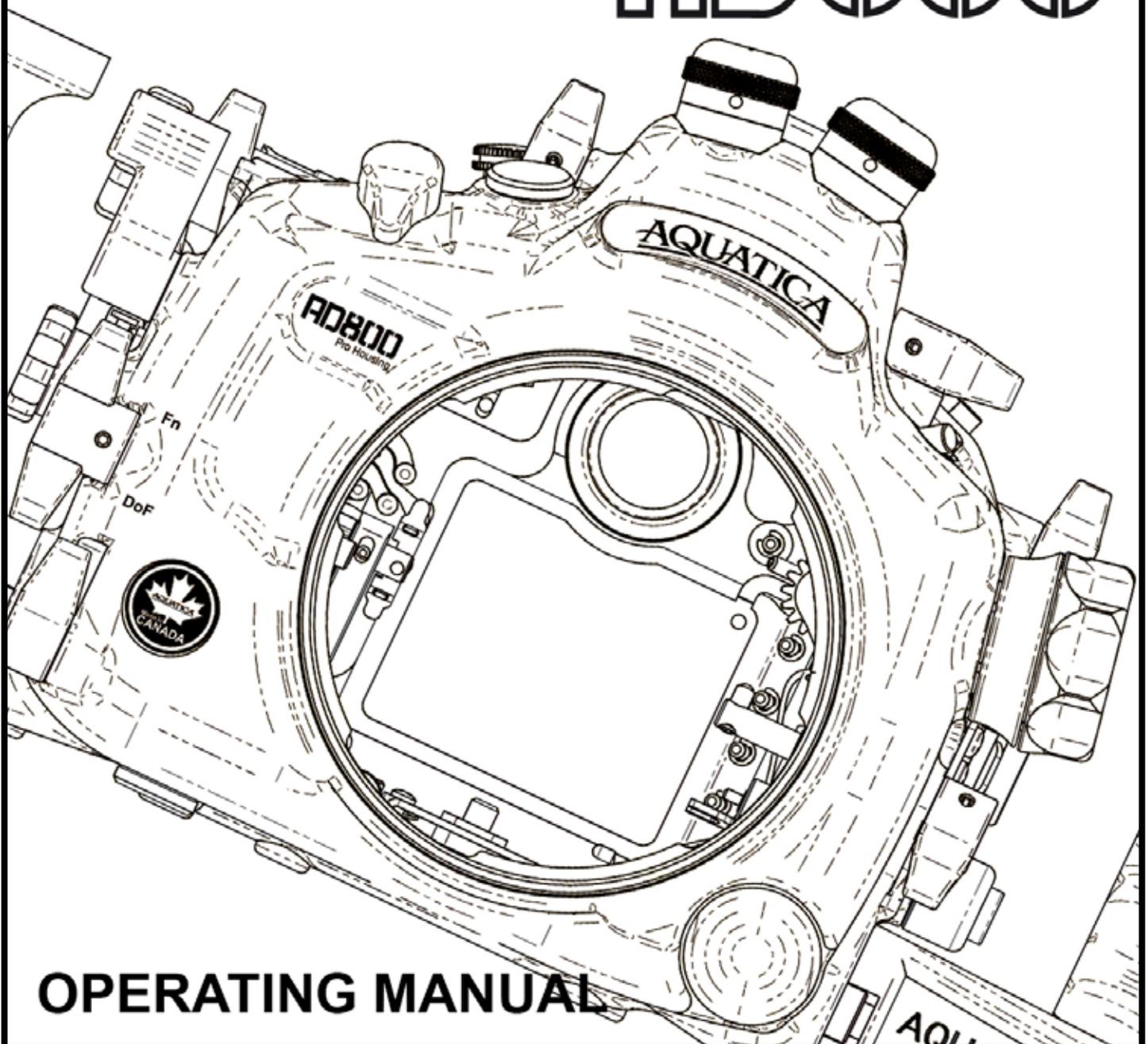# AQUATICA™.

Digital

AD800

OPERATING MANUAL

FOREWORD

Thank you for having selected the AQUATICA Digital Camera Housing System for your underwater photography.

The AQUATICA AD7000 Digital Housing is the result of a long and continuing relationship with the most demanding underwater photographers in the world. Each housing is machined from solid aluminum on the best 5 axis computerized machine for the highest level precision, it is then hand finished, quality checked and pressure tested to a 90 meters/300 feet equivalent by a small group of specially trained individuals, each of whom takes the utmost pride and satisfaction in offering the best underwater camera housing in the world.

The Aquatica Digital Housing was designed for optimum technical and optical performance and to provide easy and efficient underwater access to essentials functions and controls of the Nikon D7000 DSLR.

This manual assumes that the user is already familiar with the Nikon D7000 camera. If not, please read the Nikon instruction manual before attempting to use the housing.

With basic care and maintenance, your AQUATICA housing will give you a lifetime of enjoyment and satisfaction in producing underwater images.

Please read this manual carefully before using your housing for the first time and note that: wherever cited the right hand is your right when using the housing.
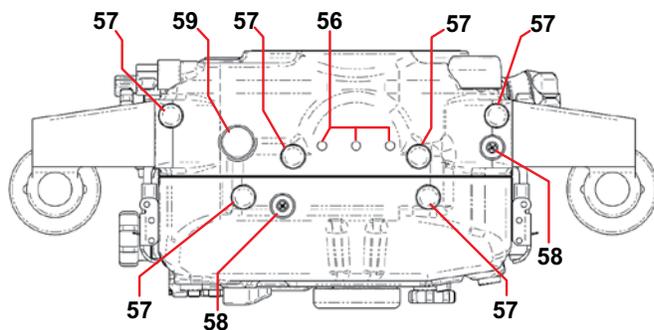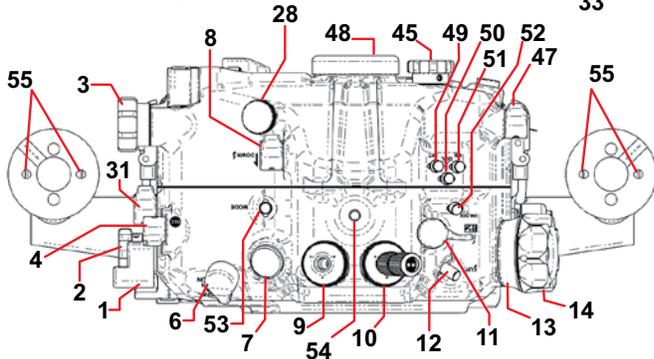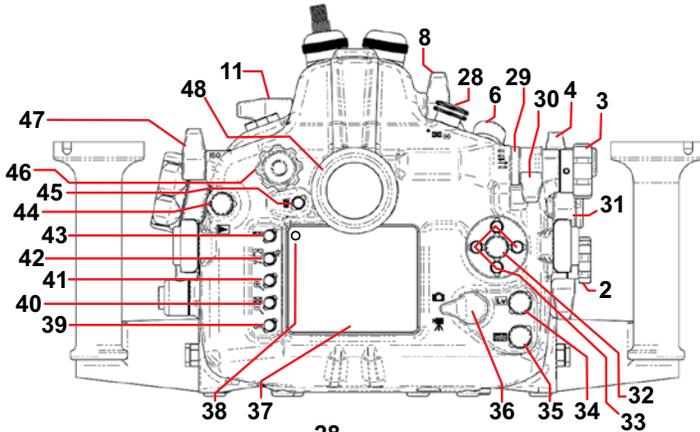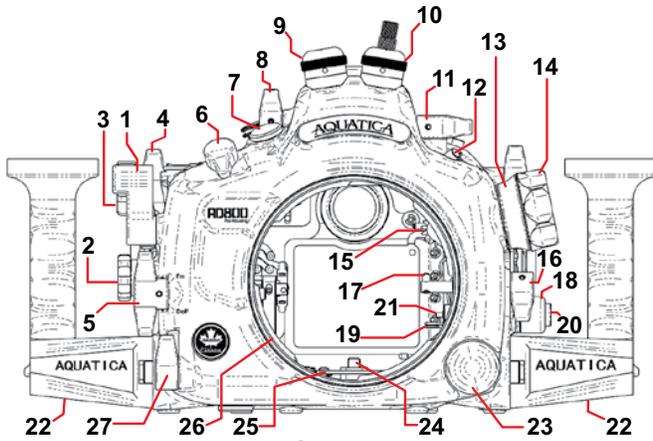
SAFETY PRECAUTIONS:

Improper transportation handling or use of this housing might cause a flood or malfunction.
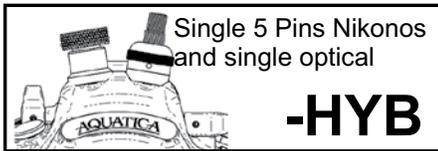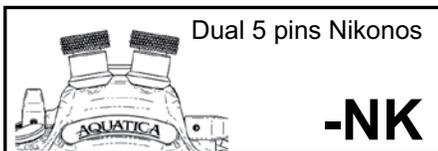
Please read and follow the following precautions:

• Store and transport the housing in a sturdy, shock proof container and avoid travelling with the camera mounted inside the housing as impact forces especially on the external push buttons will be transferred to the camera.

• When travelling by air, either remove the port or open the housing, internal pressure built up can push port out of their sealing surface.

• Never change a port or open the housing in a location where sand or similar foreign material might come in contact with an O-ring.

• Use of accessories, modifications or alterations unauthorized by the manufacturer may result in flooding or poor functioning of the controls.

• Be careful when opening the housing as possible pressure buildup inside the housing could exaggerate the force of the latch spring. Keep fingers away from the path of the latches.

• Whenever changing ports or O-rings, perform a simple seal test without the camera inside.

• Take extra care to avoid scratching the acrylic, glass ports and windows, handle theses as you would your camera lenses.

• Make sure that all ports remain properly attached before rinsing the housing, especially when rinsing without a strobe make sure the wired bulkheads connectors, if you are using this type of connectors are sealed with their supplied plug. (Optical type connectors are water proofed)

• Never attempt to operate the camera in autofocus mode with standard (NON AF-S type) lens which have a mounted focus gear engaged with the housing focusing gear mechanism.

• The main O-ring seal should be maintained and cleaned on a regular basis. Read and follow the Care and Maintenance section on this manual.

• Ensure that the spring loaded secondary lock is properly engaged on the latches to prevent their accidental opening.

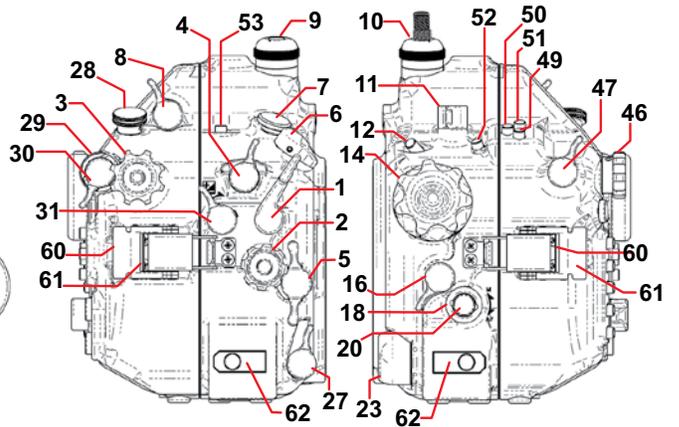# AQUATICA™

Digital

STROBE CONNECTORS VARIANTS

Dual optical

-OPT

Dual 5 pins Nikonos

-NK

Single 5 Pins Nikonos and single optical

-HYB

Single 5 Pins Ikelite

-KT

AD800

Shown with grips removed

AQUATICA
Digital

1-	Shutter Release lever
2-	Sub-Command Dial knob
3-	Main Command Dial knob
4-	Movie Record button actuating lever
5-	DoF (Depth of Field)) & Fn (Function) toggle lever
6-	Power Switch/Illuminator lever
7-	Top Bulkhead access hole
8-	Internal Flash lowering lever
9-	Optical strobe connector (Sea & Sea type shown)
10-	Optical strobe connector (Inon straight cord type shown)
11-	Flash Mode & Compensation lever
12-	Internal Flash up button
13-	Focus/Zoom pinion gear release disk
14-	Focus/Zoom Control knob
15-	Focus/Zoom Control pinion gear
16-	Lens Release knob
17-	Lens Release knob lever
18-	AF/MF selector
19-	Focus Mode Selector fork
20-	AF mode selector button
21-	AF mode selector actuator
22-	Grips (x2)
23-	Front Bulkhead access hole*
	* (shown with optional Hydrophone installed)
24-	Camera mounting screw
25-	Quick release tray
26-	Bayonet Flange
27-	Port Release mechanism Lever
28-	Metering Pattern Selector button
29-	AE-L/AF-L & AF-ON lever Rotating collar
30-	AE-L/AF-L & AF-ON lever
31-	Exposure Compensation button access lever
32-	Multi Selector center button
33-	Multi selector array
34-	Live View actuating button
35-	INFO activation button
36-	Live View mode selector lever
37-	Rear LCD window
38-	Moisture Alarm LED receptacle
39-	(OK) Button
40-	Thumbnails/Playback Zoom out button
41-	Playback Zoom in button
42-	Protect/Picture Control/Help Button
43-	Menu button
44-	Playback button
45-	Delete button/Format button
46-	Release mode dial selector knob
47-	ISO button access lever
48-	Removable Viewfinder
49-	(BKT) Exposure Bracketing button
50-	(QUAL) Image Quality access button
51-	(WB) White Balance access button
52-	Release mode selector unlock button
53-	Exposure mode selector
54-	Top accessory mounting hole (1/4"-20)
55-	Grip's Accessories mounting holes (1/4"-20)
56-	Bottom accessories mounting holes (1/4"-20) (x3)
57-	Rubber Anti Skid pad
58-	Sacrificial Anodes (x1)
59-	Bulkhead access hole
60-	Locking Latches (one per side)
61-	Safety locking tab (one per latches)
62-	Mounting holes for grips
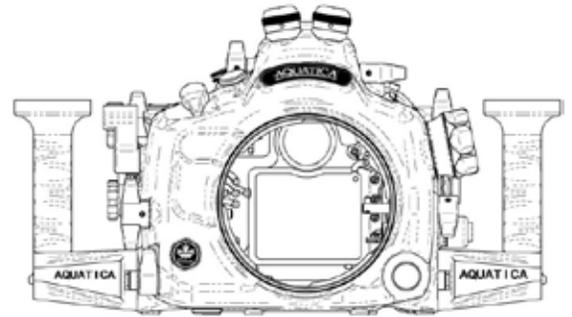
Housings strobes connection variants:

-OPT Supplied with two optical connections. Included are adapter for attaching two Inon type (straight tip) sync cords or two Sea & Sea type sync cords. S-TTL is possible if using appropriate strobes

-NK Supplied with two Nikonos Type connectors. TTL is possible if using a TTL converter with compatible strobes for it.

-HYB Supplied with one optical connector and one Nikonos type connector. Included are adapter for attaching two Inon type (straight tip) optical sync cords or one Sea & Sea optical type sync cords. Optical S-TTL is possible if using appropriate strobes as well as standard TTL if using a TTL converter with compatible strobes

-KT Provided with a single Ikelite connector. TTL is possible if using the # 4301 Ikelite TTL converter and appropriate strobes

CONTROLS IN DETAIL

1- SHUTTER RELEASE LEVER: Pulling the shutter release lever back part way activates the camera meter and auto focus. Pulling the lever back all the way fires the camera.

2- SUB-COMMAND INPUT / APERTURE KNOB: Rotates clockwise and counterclockwise. Use alone or in combination with other controls to select or set various camera functions or modes. In "Manual" the exposure mode controls the aperture settings (see shooting tip).

3- MAIN-COMMAND INPUT KNOB: It rotates clockwise and counterclockwise. It can be used alone or in combination with other controls to select or set various camera functions or modes. Refer to camera manual for in depth use (see shooting tip #3 & #4).

4- MOVIE RECORD BUTTON ACTUATING LEVER: Pull to start recording video, pull again to stop, works in conjunction with Live View mode selector (key #36).

5- (DoF) Depth Of Field & (FN) Function toggle lever: Toggles to engages these buttons, these camera buttons are highly customizable for both still and video features.

6- POWER SWITCH KNOB: Rotate to switch camera on or off.

7- TOP BULKHEAD ACCESS HOLE: A standard ½" plugged hole for receiving accessories such as a remote cord or other wired accessory.

8- INTERNAL FLASH LOWERING LEVER: Push to close internal flash of the camera, used with either –OPT or –HYB type of housing

9- OPTICAL STROBE CONNECTOR: For connecting optical cord from strobe (Sea & Sea type shown, other option available, see strobe connectors section for more details).

10- OPTICAL STROBE CONNECTOR: For connecting optical cord from strobe (Inon type shown, other option available, see strobe connectors section for more detail).

11- FLASH MODE & EXPOSURE COMPENSATION LEVER: Press to engage the flash exposure compensation or flash synchronization mode, use main or sub command knob to select options. (see also shooting tips)

12- INTERNAL FLASH UP BUTTON: push to get the internal flash of the camera in up position (used with –HYB and -OPT type of housing

13- FOCUS/ZOOM PINION GEAR RELEASE DISC: A release disk is provided to disengage the knob should you want to us a non AF-S lens in autofocus or when you wish to remove the camera, with lens attached, from the housing.

14- FOCUS/ZOOM KNOB: Turning allows manual focus of a single focus lens or rotation of the zoom mechanism of a lens.

15- FOCUS/ZOOM PINION GEAR: Engages and operates the focus or zoom gear attached to the lens.

16- LENS RELEASE LEVER: activates the lens release button on the camera allowing easy removal of the lens.

17- LENS RELEASE INTERNAL KNOB LEVER: Applies pressure on the camera lens lock button

18- AF/M SELECTOR KNOB: rotate to select between auto or manual focus

19- FOCUS MODE SELECTOR FORK: Engages the focus AF/M selector of the camera.

20- FOCUS MODE SELECTOR BUTTON: Press to select between AF-A, AF-C and AF-S or for 3D, Auto, single or multiple point focusing. Use main command or sub command knob to choose options.

21- FOCUS MODE SELECTOR ACTUATOR: Presses on the AF Mode button of the camera.

22- HAND GRIPS (X2): Left and right grip allowing the mounting of strobe arms and accessories.

23- FRONT BULKHEAD ACCESS HOLE: Standard ½" hole for mounting accessories such as optional Hydrophone (shown) or other wired accessories.

24- CAMERA MOUNTING SCREW: Used to attach camera to quick release tray.

25- REMOVABLE CAMERA TRAY: Holds camera in place and slide in housing, allowing easy battery replacement.

26- BAYONNET MOUNTING FLANGE: Allows the mounting of different ports and extension rings on the housing.

27- PORT RELEASE MECHANISM LEVER: pull to release the locking mechanism when installing or removing a port or extension.

28- METERING PATTERN SELECTOR KNOB: Push to select the metering mode by rotating the main command dial (key #3), options are: Spot, Center Weighted or Matrix metering (see also shooting tips #5).

29- AE-L/AF-L & AF-ON LEVER ROTATING COLLAR: Pull out the AE-L/AF-L Lever and rotate this collar to position it in the desired mode.

30- AE / AF & AF-ON LOCK LEVER: Lock the auto focus / auto exposure or use for activating the AF-ON button according to preference

31- EXPOSURE COMPENSATION BUTTON ACCESS LEVER: Pull to engage the Exposure compensation control [+/-]. Rotate the Main-Command knob to set the desired exposure compensation value. The value will appear on the rear LCD panel and in the Viewfinder. This button when pressed along with QUAL (key # 50) button will reset the camera shooting parameter to its default position.

32- MULTI SELECTOR CENTER BUTTON: Press to engage the selection or use Custom Setting Menu for different options.

33- MULTI SELECTOR: These buttons have multiple uses. They allow the selection of the focus area, in the menu mode, they are used to scroll up or down and left to right to choose from your menu selection and they are used as well in the delete mode. To accept a selection press the center button (#32) or the OK button (# 39).

34- LIVE VIEW BUTTON: push to activate the Live View function of the cam era (required for video mode).

35- INFO BUTTON: This button will activate the rear LCD and display all pertinent shooting information.

36- LIVE VIEW MODE SELECTOR LEVER: Toggle to select between the LIVE VIEW mode for still or movie.

37- REAR LCD WINDOW: allow viewing of menus, information and images.

38- MOISTURE ALARM WARNING DIODE: Warning LED will light up in the unlikely event of water penetrating the housing.

39- (OK) BUTTON: push to accept selected option or menu.

40- THUMBNAILS/PLAYBACK ZOOM OUT BUTTON: Push to see thumbnails or to zoom out when reviewing images.

41- PLAYBACK ZOOM IN BUTTON: Push to magnify images in playback mode.

42- PROTECT/PICTURE CONTROL/HELP BUTTON: Push to protect an image in playback mode, in shooting mode it gives access to the Picture Control function and in the menu, will display the HELP screen.

43- MENU BUTTON: Press to activate menu display, scroll using multie selector buttons and select using OK button.

44- PLAYBACK BUTTON: Press to activate the monitor and review images. Use Multi Selector to scroll, select and magnify.

45- DELETE BUTTON: Press to delete images, use multiple selector buttons to select and press the enter button to delete, can also be used in conjunction with the mode selector button (Key #53) in order to format the card inside the camera.

46- RELEASE MODE DIAL SELECTOR KNOB: This knob rotate the release mode dial. To rotate the dial, the locking button (key # 52) must be pressed down.

47- ISO BUTTON ACCESS LEVER: Pull to engage the ISO button, select ISO using the Main Command knob (#3) (

48- REMOVABLE VIEWFINDER: A full view of the illuminated camera viewfinder displays all necessary information. This viewfinder can be removed and replaced with the optional Aqua View 180 Finder (# 20054) or Aqua View 45 Finder (# 20059) for a larger displayed image or more comfortable shooting position.

49- (BKT) EXPOSURE BRACKETING BUTTON: Press to engage and select bracketing exposure parameter using either or both the main command (#3) and sub-command knob (# 2)

50- (QUAL) QUALITY/SIZE & RESET BUTTON: Press to access the different image quality available on the camera; use in conjunction with main and/or sub command dial control knobs. Pressing this button and the Exposure compensation (#31) lever will reset the camera shooting parameter to its default position.

51- (WB) WHITE BALANCE: Press to access white balance functions, use in conjunction with subcommand dial (Key #3) to select mode and/or main dial controls (Key # 2) to the select attributes of the selected mode.

52- RELEASE MODE DIAL SELECTOR UNLOCK BUTTON: This button unlock the release mode dial so it can be rotated, with the release mode dial knob (# 46)

53- EXPOSURE MODE SELECTOR BUTTON: Push to engage the mode selector button, rotate the Main Command knob (# 3) to select the desired exposure mode.

54- TOP MOUNTING HOLE FOR ACCESSORY: a 1/4"-20 TPI hole is supplied to accept a TLC accessory or TLC base ball for mounting a strobe arm or a modeling light.

55- GRIP'S ACCESSORIES MOUNTING HOLES: Two 1/4-20 TPI holes on each grip are ready to accept TLC Base Brackets or TLC Base Ball for strobe arms or accessories.

56- BOTTOM MOUNTING HOLES: Three 1/4" X 20 holes are provided for mounting strobes trays or accessories.

57- RUBBER ANTI SKID PADS: rubber pads are provided to protect the housing and preventing it from sliding on wet decks.

58- SACRIFICIAL ANODE: A zinc anodes is installed to protect your housing against salt water corrosion; it is made to deteriorate faster than the other strategic metal part of your housing, hence the name sacrificial anodes. This anode need to be replaced by the user as needed.

59- BOTTOM BULKHEAD ACCESS HOLE: A standard ½" plugged hole for receiving accessories such as a remote cord, monitor or other wired accessory.

60- LOCKING LATCHES: Two heavy duty latches (one per side) with safety locks to protect against accidental opening.

61- SAFETY LOCKING TAB: Push safety tab and lift latches to open.

62- MOUNTING HOLES FOR GRIPS: Threaded 5/16" holes for mounting grips (see care and maintenance section)

AQUATICA
Digital

FEATURES

The Aquatica Digital AD800 Digital Pro housing is issued from the world's most technologically advanced underwater housing lineage, it is ergonomically designed to place all the essential camera controls under your finger tips and features the following:

A.   A port locking mechanism to prevent accidental rotation of the port or extension mounted on the housing

B.   A Lens Lock Release control that will activate the lens release button of camera from the outside of the housing.

C.   A quick release tray, allowing fast and easy removal of camera with lens and gear attached to the camera body.

D.   Large ergonomic and easy to operate controls for the manual and computerized camera functions.

E.   The industry most flexible strobes connector selection; options includes standard Nikonos, Classic Ikelite electrical connections, optical connections for the Inon and Sea & Sea optical sync cord. An internal switchboard allows full manual or TTL exposure with electrical sync cord when a compliant TTL converter is attached; S-TTL is available when using the proper strobes

F.   The Aquatica AD800 Pro Digital is the only housing to offer exclusive access to all controls and buttons found on the camera. Special emphasis was made to give the user easy access to the following controls underwater:

- Mechanical shutter release.
- Movie Record via a dedicated lever
- Shutter speed through the Main-Command Dial
- Aperture through the Sub-Command Dial
- ISO sensitivity value via a dedicated lever
- Fn & Depth of Field buttons via a dedicated toggle lever
- Live View mode
- Multi Selector array
- Focus / Zoom
- AE-L/AF-L & AF-ON access
- LCD panel illumination & information display.
- Metering pattern selector
- Exposures Compensation
- Focus Area Selector
- Delete button access
- Live view access

G.   A comprehensive selection of bayonet mounted ports including the 4", 6", 8" and 9.25 diameter domes, three flat ports and various extension rings. These are of manufactured from the finest optical material in order to preserve the image quality of your Nikon Mount AF lenses. Adapter rings also allows other brands of ports to be used with an Aquatica port adapter.

H.   A large selection of lens gears and related accessories.

PREPARATION OF THE HOUSING

1. Attaching Grip to the housing:
The housing comes with two Grips for both right and left hand grips which should be installed on the sides of the housing with the supplied bolts and hexagonal key wrench. It is strongly recommended to occasionally remove the grips and lubricate the screws (see Care and Maintenance: of the housing.)

¼"-20 threaded holes are located on the top of the hand grips (# 55) to accept bracket for most popular strobe arm system you are using. The Technical Lighting System strobe arm system which has been developed exclusively for the Aquatica housings is highly recommended as it integrates seamlessly with the AD800 housing.

Additionally, there are three ¼"-20 threaded holes on the bottom of the housing (# 56) that can be used for various mounting application including a tripod. And a ¼"-20 threaded hole on the top rear half of the housing (# 54) for mounting accessories such as a focus assist light or TTL converter bracket.

Mount your strobe arm on the housing and connect the sync cord to the housing's strobe connectors as per your strobe manufacturer. If using eletrical sync cord, be sure to read the section regarding the care and maintenance of the O-rings.

2. Lubricating the Main O-ring Seal:
Before use, carefully inspect the Main O-ring seal in the groove on the front half of the housing to confirm that it is free from scratches or foreign material. Lubricate the O-ring with a light coat of Aquatica O-ring lubricant.

When replacing a Main O-ring, first place this one over the O-ring groove and start by pushing the O-ring in the corners. Work your way around the O-ring making sure the O-ring is snugly sitting in the groove.

For proper handling and maintenance of O-rings please refer to the section titled "Care and Maintenance: of the O-rings."

PREPARATION OF THE PORTS

1. Select the correct port:
Once you have decided on the type of photography for the dive, you will be installing either a flat Macro Port (product # 18426, 18428 or 18429), or a Dome Port (Product # 18405, 18407, 18409 or 18410). Refer to the Nikon Type 4 lens chart for the suggested port and accessories required for the lens you choose.

Port Extension Rings serve two purposes, in macro photography they are used for physically adapting a lens to a port, in wide angle photography they are used for matching the optical center of both lens and dome port as closely as possible.

Macro Port Extension Rings:
Both the Macro Ports 18426 and 18428 will accept the AF-D & AF-S Micro-Nikkor 60mm lens without extension. If you intend to use a longer lens such as the 105mm you will require an additional extension ring. These extension rings are inserted between the Macro Port and the housing and provide the extra space necessary for the longer lens.

Dome Port Extension Rings:
With wide angle or most zoom lens, the Dome Port may require the uses of an extension ring. These extension rings are inserted between the dome port and the housing and are intended to match, as closely as possible, the optical center of both the dome port and the lens.

Dome Shade:
Of the four dome port available, the (# 18410) 4" Minidome and the (# 18407) 9.25" Megadome are provided with the shades built in, the (# 18409) 6" & (# 18405) 8" acrylic dome port have removable optional dome shade, this two dome are recommended if planning on using a circular fisheye lens, in regular use and in order to reduce glare, maximize the contrast and offer a physical protection to the dome, the use of a dome shade and its neoprene cover is highly recommended. Refer to the AD800 lens chart for the suggested port and accessories for the lens used.

A comprehensive list of the lenses supported and their required extensions and/or accessories, is supplied along with this manual. Due to constantly changing selection of lenses, it is recommended that you visit our website on occasion to have access to the latest updated version of the Nikon Type 4 at www.aquatica.ca

2. Cleaning the port:
Dirt, grease or fingerprints on the port especially on the inside, can adversely affect the quality of the image. Acrylic ports should be cleaned with plastic or acrylic safe cleaner and the glass ports should be cleaned with lens cleaner. For more details please read the section titled "Care and Maintenance: of the Ports."

3. Lubricating the port O-ring seal:
Before using the port, remove the O-ring on the rear of the port and lightly coat it with silicone grease. For more details please read the section titled "Care and Maintenance: of the O-rings."

PREPARATION OF THE LENS

There are a number of gear and lens options possible. Using the right gear and correctly mounting it on the lens is primordial for a smooth housing operation. Follow the installation directions included with each gears carefully. Since the aperture control on the Nikon D800® is achieved through the Sub-Command Dial, the use of AF types of lenses is mandatory.

A comprehensive list of the lenses supported and their required gears is supplied at the end of this manual. For the latest updated version of this lens chart, you can refer to the latest Nikon Type 4 Lens Chart at www.aquatica.ca

Notes: If the camera is set in manual focus a focus gear must be mounted on the lens. If you are using a zoom lens with a zoom ring the camera must be on auto focus, also note that if using a dome port you may be required to install a close up diopter on the lens to correct the minimum focusing distance of the lens so that close focusing on the virtual image created by the dome is possible. The Nikon Type 4 lens chart will inform you if of the suggested diopter for your lens/port combination and if one is needed.

GEAR INSTALLATION:

Mount the focus gear over the focus ring of the lens.

(**a**) For Slip-on gears (gears without mounting screws): Slide the gear over the lens and align the gear with the front of the lens focusing ring.

(**b**) For gears with set screws: Lightly tighten the set screws evenly. Tighten each screw in small increments (approximately a quarter turn each) working around the gear until all the screws are properly tightened and the gear is concentric with the lens body.

CAUTION: Do not over-tighten these screws, as this might bind the lens, thus restricting the rotation of the focus ring and/or damaging the lens. Conversely under-tightening these screws might cause the gear to slip or loose alignment.

Rotate the focus ring several times to make sure it moves smoothly and the gear does not slip before closing the housing

WARNING: If the lens is a not of the AF-S type, never attempt to operate it with the camera in autofocus mode and with a mounted focus gear engaged. This might cause serious damage to your camera or to the lens. With standard AF lenses switch from manual to auto focus by lifting the focus knob and the under laying disc (#13) rotate and position it so as to disengage the focus gear mechanism, then switch the AF/M lever (# 18) to AF position. Also avoid travelling with the zoom/focus gear attached as any impact will be directed at the sensitive zoom or focus mechanism

Zoom lenses: When using a zoom lens, the gear should be mounted on the zoom ring of the lens. The Focus/Zoom knob (#14) then control the zoom gears on the lens. Focusing of lens is achieved by using the camera's autofocus system or by a dedicated port extension, the # 18426 Macro port is equipped with a focusing knob on its side that gives manual focus access to macro lenses equipped with the proper gear.

AQUATICA
Digital

CAMERA PREPARATION AND INSTALLATION

1- Important Note: prior to installing the camera in the housing, remove the rubber eye piece and the rear LCD plastic protector from the camera as well as the camera strap, Clips and/or any object that might obstruct installation, third party camera strap hookup should be removed or tucked away

2- Make sure the ON / OFF /ILLUMINATOR knob (# 6) is in the ON position and that the lens lock lever (# 16) is in the proper position

3- Remove the quick release tray (key # 25) from the housing by pressing down the metal tab (A) and pulling the tray out (B). Carefully place the camera on it, making sure that the camera is properly aligned and secured against rotation or movement.

4- Align the Tripod Socket of the camera with the mounting screw (key # 24). Tighten the mounting screw securely while ensuring that the camera position is not altered.

5- Pull out the lens release lever (#16) and the AF/M knob (# 18) clear

6- Position the AF/M lever (# 18) on the side of the camera to M (as per illustration at right) and align the fork of the AF/M actuator (# 19) accordingly..

7- If using the optional Hydrophone connect the plug to the camera audio jack, and tuck the rubber flap of the microphone plug safely out of the way.
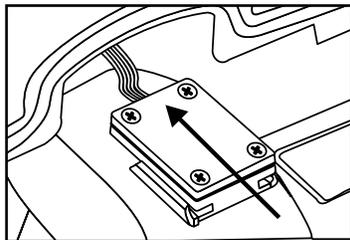
8- Slide the quick release tray (key # 25) back into place, it will lock itself into place.

9- Test the DoF & Fn toggle (# 5) and the AF/M lever (# 18) to confirm that they are properly aligned and working smoothly.
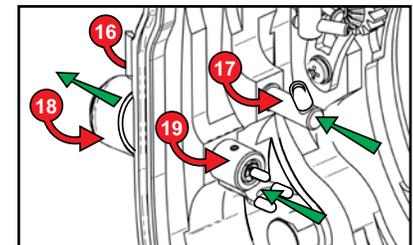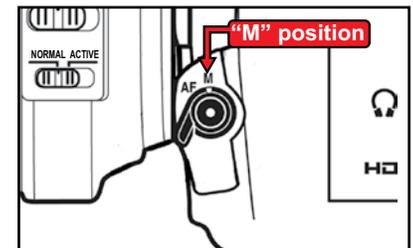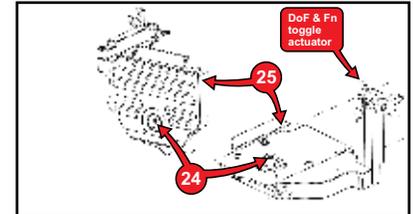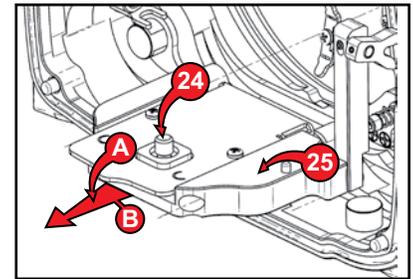
CLOSING PROCEDURE OF THE HOUSING

Once the camera is secure on the saddle inside the front half of the housing, simply:

1- If using wired connection for the strobes, slide the housing's hot shoe connector onto the hot shoe base of the camera as seen in drawing at right.

2- If using optical connectors, make sure your built in flash on the camera is free of obstruction and can go up. Confirm its operation before immersing the housing.

With the -HYB version, if using optical, then do not install the hot shoe as this will cancel the built in flash of the camera and prevent the built in flash from coming up.

Before closing the housing always confirm that:

1- The main O-ring on the front half of the housing is clean, lubricated and properly seated for a positive seal.

2- The sealing surface on the rear half of the housing is clean and free from any scratches or physical damage.

3- All cords, wires and the rubber flap of the microphone cover are tucked in such a way as to prevent interference with the closing of the housing and its sealing integrity.

To close the housing simply:

a) Join the front and rear halves of the housing using the two dowel pins at the bottom of the housing as a guide.

b) Hold the housing with both hands and look around the sealing surface to ensure that the O-ring is properly seated and that no cords, wires, rubber cover or "D-rings" are caught between the edges.

c) Close the two side latches (# 60) simultaneously and verify that the locking tab is engaged. To open reverse the process, push on the locking tab and lift the latches being careful of your fingers.
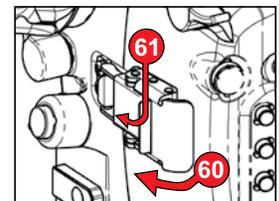
d) Always verify that the safety locking mechanisms (# 61) of the latches are properly engaged prior to entering water to avoid any accidental opening.

CAUTION: if you feel any resistance as you attempt to close the latches, do not force the closure. Check for any obstructions and try again.

With the camera inside the housing, first disengage the pinion gear (#15) by pulling and rotating the disc (# 13) under the focus/zoom knob into the up position, install the lens prepared with its gears through the port opening in the front of the housing. If using a gear always confirms that it is properly installed and aligned on the lens. Once installed, release the disc (key # 10) and rotate the focus / zoom control knob (Key # 14) to ensure that the gears are properly meshed, that their rotation is smooth and that it does not do not grind or bind.

Note: To avoid damaging the auto-focus mechanism of the camera when using standard AF-D type lenses, you should always set the Focus Control to "M" Manual for testing the proper meshing of focusing gears. This procedure is not required with AF-S type lenses.
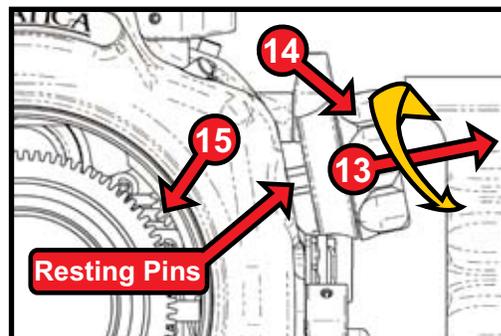
MOUNTING THE PORT

Before mounting the port on the housing always ensure that the port O-ring is clean, lubricated and properly seated in its groove and that he sealing surface on the housing is clean and free of physical damage.

The AQUATICA AD7000 Digital Housing System features a bayonet mount (# 26) equipped with a locking mechanism (# 27). If there is already a port or extension mounted on the housing and you wish to remove it, simply pull the lock lever (# 27) until it stop, rotate the port counter clockwise and carefully pull out, and put it aside in a safe place with the port lens delicate surface protected.

To mount the port or extension ring simply:

1- Place the housing on its back on a soft steady surface.

2- Place the port or extension ring inside the main port of the housing.
Align one of the four alignment notches with the opening of the housing.

3- Place your hands on opposite sides of the port or extension ring.

4- Push with even force on both sides of the port or extension ring until you feel it snap into place. Make sure the bayonet is completely inside the housing.

5- Turn the port clockwise until it stops. Do not force, if there is too much resistance takes the port off, check the O-ring and retry. the port lock will engage itself once it has completed its rotation.

6. confirm visually the proper seating and sealing of the port or extension and that it is safely locked on the housing.
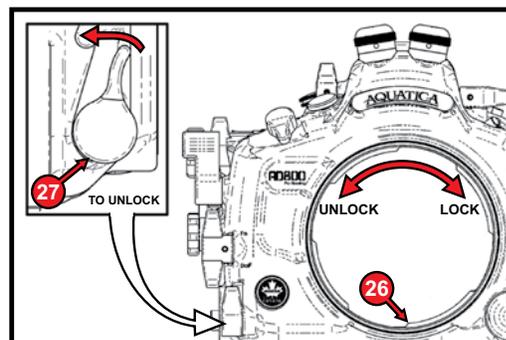
Note: It is recommended that you familiarize yourself with this mount by trying it without the camera; this will allows you to see the inside view of the bayonet mount and of the ports or extension rings in the housing.

CHANGING A LENS (REMOVING A LENS)

From the front: Remove the port; the lens mounted gears may restrict the view and ease of access to the lens release button of camera. The AQUATICA AD800 Pro Digital Housing features a Lens Release Lever (key # 16) that is designed to trigger the lens release button of camera to allow easy removal of lens. To remove a lens, simply rotate Lens Release Lever (key # 16) to press the camera lens release, hold and turn the lens clockwise.

From the rear: remove the back, pull out the lens release lever (# 16) and the AF/M knob (# 18) out of the way. Lift and turn the disc under the focus/zoom knob (# 14) so that it come down on the resting pin, this will disengage the pinion gear (#15), release the saddle lock, remove hot shoe cable if using one and pull out the camera and lens assembly, replace lens and reinstall by reversing this procedure.

AQUATICA
Digital
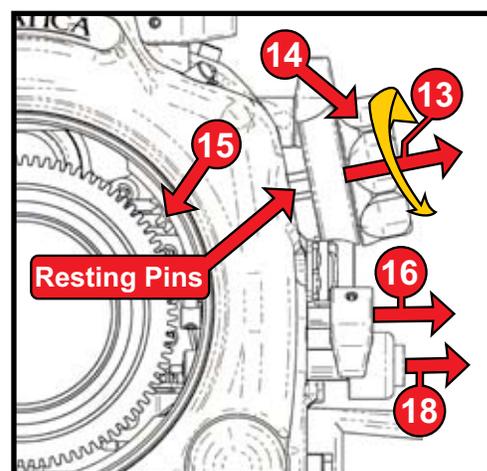
MOUNTING AND ATTACHING FLASHES

Threaded holes are provided on top of the hand grips to accept the necessary shoes or bracket to accommodate your strobes arms. Additionally, three 1/4"-20 threaded holes on the bottom of the housing can also be used for various mounting applications and a 1/4"-20 threaded hole on top of the rear half of the housing will accept an Aquatica bracket or Base Ball that can hold a focus/video light or a extra strobe arm.

Developed with the Aquatica housing in mind, the Aquatica TLC Strobe Arm System is highly recommended for its ruggedness, precision and the quality of its craftsmanship.

USING WIRED CONNECTORS

If using an Aquatica AD800 Pro Digital housing setup with electrical strobe connections, these will be connected to a switch board circuit that gives the users the option to choose between full manual exposure or TTL (an external converter or single housed flash is required). Optional Ikelite bulkheads connectors are also available.

When preparing the sync cord, be sure to lubricate the O-ring on the sync cord's connector with a light coat of the recommended O-ring lubricant for your strobe, Also advisable is to put a light coat of O-ring lubricant on the threads of the connector, this help preventing corrosion built up on the threads
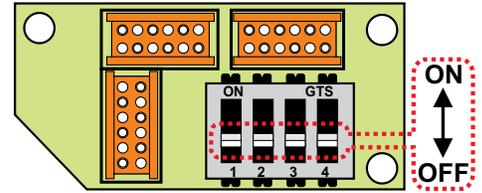
Nikon Digital cameras are setup with a flash circuitry that only allows one iTTL flash to be connected directly to the camera, Nikon will not allow two TTL flashes to be electrically connected directly, no matter if it is a Nikon flash or any other brand. The wireless approach preferred by Nikon prevents additional flashes, or strobes from being connected directly to the camera, iTTL exposure will stop to function and a camera freeze is likely to happen. Two strobes can be connected only if a TTL converter is interfaced between the camera and the strobe.

On your housing you will find either one or two bulkhead connectors, the main connector (on right side) is wired through a switch board that can be configured for full manual flash exposure or to be compliant with the latest TTL converter on the market. The secondary connector (left side if installed) is wired in a full manual configuration and cannot be used for iTTL operation. By default you housing is delivered with the switch board set to full manual, if iTTL exposure is desired then it can be made in either of two methods:

1) By using a single flash from Nikon or other brand (that is iTTL compatible with your camera) in a dedicated underwater housing connected with a TTL cord to the main connector of your Aquatica housing.

2) By using an external iTTL converter connected to the main connector of your Aquatica housing, one or two underwater strobes with TTL cords, can then be connected to this converter, (check with your dealer or the manufacturer to see if the strobes and converter are compatible).

Set up instruction for iTTL operation: Using the tip of a pen push all the switches to the ON (up) position, this will activate the connections on your main bulkhead connector allowing TTL communication between the camera and the housed flash or iTTL converter.

Set up instruction for manual operation: All switches must be in the OFF (lower) position, in this case all iTTL connection are disabled and only the ground and sync are left active, this will allow two under water strobes or housed flashes to be connected directly via the main and secondary bulkhead.

FOR OPTICAL CONNECTORS

The housing with optical connectors are supplied with one dual adapter for typical straight cord used by INON and various strobe manufacturers and two Sea & Sea angled type cords adapter, select the desired connection and install on the optical port base, tighten the set screw into place with the supplied hexagonal wrench.

In order to use Optical triggering, the built-in flash of the camera need to be in the up position, this can be done at time of installation or later by pressing the flash actuator button (# 12) to release it.

If ambient light images need to be taken simply push the flash actuator lever (#8) to close the internal flash.

Note: it is advisable to turn the camera and external strobe off when travelling to your dive site in order to avoid useless drain of the camera and strobes the batteries.

Field testing shows that mixing brands of optically triggered strobes is likely to give unreliable result and should be avoided.

Remember not to install the hot shoe if shooting optically triggered strobes (HYB version) as this hot shoe disengages the internal built-in flash of the camera and prevent this later from working properly. Always do a few test exposures once you finished setting up the strobes

Flash mode & exposure compensation:

When used with optical connectors: the lever will engage either the exposure compensation, selecting the corrective value with the sub command knob(# 2) or the flash sync mode, selecting the required mode (rear sync, slow sync etc.) using the main command knob (key # 3).

When using electrical connectors: This lever when pressed will engage either the exposure compensation, selecting the value with the sub command knob(# 2) or the flash sync mode, selecting the required mode (rear sync, slow sync etc.) using the main command knob (key # 3).
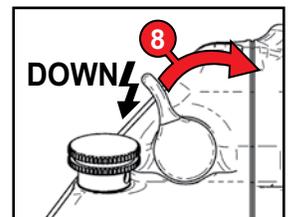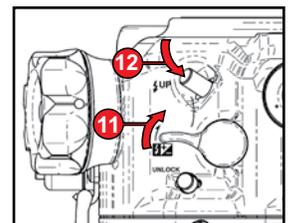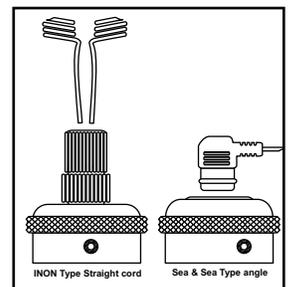
TAKING A PICTURE:

Following are the basic techniques. For more information and advanced photography please study the Nikon® D800 instruction manual.

NOTE * Refer to the shooting tips section below for useful tips on custom settings of the Nikon® D800 camera for underwater photography

1- Press the mode button (# 53) and select the desired exposure mode, the chosen mode will appears on both the camera viewfinder and rear LCD window (#37) if using the INFO option. Exposure Mode options in sequence are: Programmed Auto (P), Shutter Priority Auto (S), Aperture Priority Auto (A) or Manual Exposure (M).

* Full auto mode and scenes mode are not really useful in underwater photography, most popular choice are either full manual or aperture priority.

2- Control of Exposure Compensation (# 31) is achieved by the lever to engage compensation function, select proper parameter by using either the sub or main command knobs (see shooting tip section).

Note: When using strobes, it is recommended that the camera be used only in Single Frame Motor Drive mode or there is the possibility that the camera will fire before the flash or strobe can recycle.
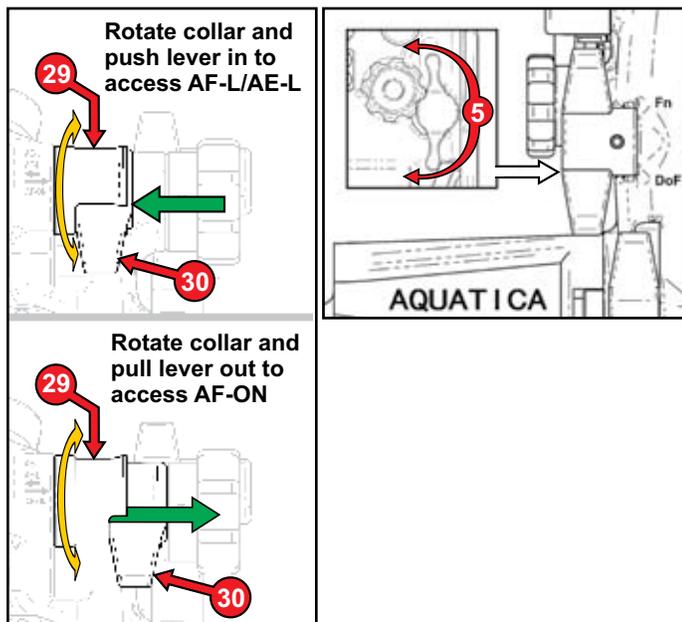
3- Turn the Metering Pattern button (# 28) and select the metering pattern you wish to use: 3D Matrix, Center-Weighted or Spot, from the rear LCD panel.

4- Pull the Shutter Release Lever partially back. This will activate the camera's meter and autofocus system.

5- If using manual focus use the Focus Knob (key # 14) on the housing or on the flat port to focus.

6- If using Manual mode adjust the Main Command Knob (key # 3) and/or sub-command (key # 2) to set the shutter speed and aperture.

7- Pull the Shutter Release Lever (key # 1) the rest of the way until the camera fires.

Rotate collar and push lever in to access AF-L/AE-L

29
30
5

AQUATICA

Rotate collar and pull lever out to access AF-ON

29
30

SHOOTING TIPS:

The Nikon D800 Digital camera is loaded with interesting options in its Custom Setting Menu section, these can be very helpful to the underwater photographer, listed below are some of the most useful ones:

1) The lever (# 30) on the rear right hand side of the housing is used to access either the AE-L/AF-L or AF-ON button by rotating an adjustment collar (# 29). there is wide range of possible to modification to the original purpose of these so that they can perform other functions, among the most interesting options found on the AE-L/AF-L CSM Menu (f6) are:

- Isolating the focus lock
- Locking the Flash Value (with optically triggered strobe)
- Blocking the flash from triggering

The AF-ON is used for isolating the auto focusing from the triggering of the camera, pressing the trigger will not affect focusing, it can be tailored to very specific needs and is it worth exploring the multitude of options available.

2) The DoF and Fn toggle (# 5) on the front of the housing gives an exclusive access to the buttons of the same name on the camera, while depth of field preview is obliviously of little interest, both the DoF and FN buttons, can be modified to a long list of custom functions, available in the (f4) CSM menu for the Fn button and (f5) CSM menu for the Preview button.

3) It is possible to invert the rotations of the command and sub command controls, in normal situation, to give the photographers a natural feel when using the housing controls, it is a simple procedure to invert them. Go to the CSM menu, select (f9), Customize Command Dials", select "Reverse Rotation", select "Yes" and confirm by pressing the OK button, you now have the knobs rotating in the oposite direction as they would normally be.

4) The Command and Sub Command dials can also be inverted, the front one becoming the shutter speed, the rear one being transformed in the aperture controls, this feature can be useful for manual strobe shooters, you can change the lens aperture with your thumb while taking picture continuously with your index, to do so, go to the CSM menu, select "f6", "Customize Command Dials", select "Change Main/Sub", select ON and confirm with by pressing the OK button. You now have control of the aperture on the rear knob and shutter speed on the front one.

5) One very well hidden, but so very useful, custom function is the ability to modify the behavior of the camera push buttons, by default, when one chooses to change a setting related to a button, one has to keep pressing said button, rotate one of the two command dials and then let go of the button, using the f7 custom function will let you press on the button once and this one will stay engaged until you either press on it again, or gently tap the shutter release to turn it off. Changing setting on the camera itself is a simple procedure, not so when the camera is inserted into an underwater housing, then that can quickly becomes awkward especially with a housing loaded with strobes at the end of lengthy strobe arms. To engage this feature, go to CSM menu; select "f7 Release Button To Use Dial", press OK button to accept. This is one of the most useful features of the CSM repertoire.

Some of the controls that can benefit greatly from this CSM mode:

-     Exposure mode (# 53)
-     Exposure correction (# 31)
-     AF Mode (# 20)
-     Flash mode (# 11)
-     Flash exposure correction (# 11)
-     Bracketing (#49)
-     ISO (# 47)
-     Quality and size (# 50)
-     (WB) White Balance (# 51)

AQUATICA
Digital

FOCUSING MODE

NOTE : Select the proper focus mode (AF or M) with the focus mode selector (key # 18) and pressing button (key # 20) on the housing to access the pattern options (AF-A, AF-S, AF-C) with the main command dial (key # 3) or AF pattern (3D, AUTO, single point, 9, 21 or 39 points) mode by rotating the sub command knob (key # 2). For more detailed information concerning the operation of the different focus modes consult the Nikon® instruction book for the D800. (Also see shooting tips #5 as it make operating the AF mode & Pattern button much easier). Taking full advantage of the AF-E/AF-L & AF-ON button with the housing dedicated lever (# 30) can also greatly contribute to the performance of the autofocus performance of the camera underwater.

USING THE HOUSING

Whenever changing ports or O-rings, it is highly advisable to perform a simple seal test without the camera inside. Strapping a weight to the housing and lowering the unit to a depth of 30 to 50 feet of water for at least 10 minutes will assure you that the seating of the new port or O-ring is proper. This test, though time consuming and often considered unnecessary, may save your camera equipment from irreparable water damage. Once this test is performed the housing is now ready for the dive.

CAUTION: Never jump into the water with the housing. It is best to have the system handed to you after you have made your entry, or have it lowered to you on a rope. Make certain that ropes of other equipment stay clear of the system.

When photographing, be sure to respect the environment. Avoid damaging marine life or manipulating sea creatures to obtain a pleasing photo. The housing is slightly negatively buoyant so that you can lay it down on the bottom, but avoid laying it on living coral or other delicate marine life.

CHANGING THE MEMORY CARD

Always take care to thoroughly dry the housing before opening it to change memory card. Wipe the housing off with a dry towel. If possible it is suggested that the housing be blown dried by directing a low pressure air nozzle around the main o-ring before opening.

Rest the housing on its front with the port facing down, be careful to protect the port lens surface, release the two side latches simultaneously. Lift the rear part of the housing and place it in a secure location. This minimizes the possibility of any residual water falling into the housing and on to the camera when the housing is opened or damage to the sealing surface.

TRANSPORTING THE AQUATICA HOUSING

Store the AQUATICA Digital housing in a sturdy, shock proof container. When travelling by air, remove the port. This allows for equalization of the air pressure inside the housing to the external air pressure. Failure to do so may cause serious damage to the ports by dislodging a sealing O-ring or window. Avoid travelling with the camera mounted inside the housing, while the housing is quite rugged, it is nonetheless not padded and any impact is likely to be transmitted to the cameras delicate components.
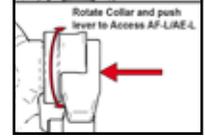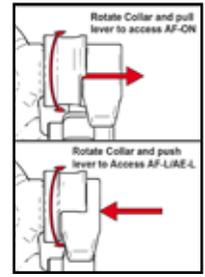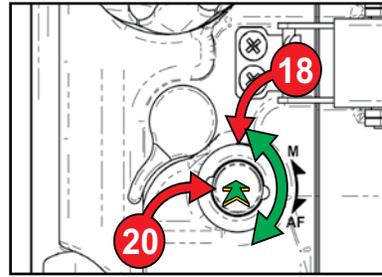
CARE AND MAINTENANCE

Of the housing:

After each and every salt water dive, your housing system should be soaked or rinsed in fresh water. The housing system should soak in fresh water for at least 30 minutes. During this soaking period reach into the water and operate all the controls several times.

Be sure to inspect the housing's main o-ring and clean it after every use. Refer to Maintenance: Of the O-rings. To ensure that the hand grips won't fuse on to the housing due to the exposure to salt water, it is also a good practice to occasionally remove the hand grips. Clean and lubricate the bolts with a small amount of WD-40 or add a touch of grease.

WARNING: Use WD-40 carefully, sparingly and only on metal to metal surfaces. WD-40 can damage the acrylic on the ports, the optical surfaces on lens as well as the O-rings.

Of the Ports:

Care should be taken with the Dome Port and Macro Port to avoid scratches on the lens surface. The acrylic port is softer than glass so minor exterior scratches are often unavoidable. However, since the indices of refraction for acrylic and water are almost equal the scratches, if minors, should not seriously impair image quality. Internal scratches (air side) must be avoided as they do not fill in with water and will affect the quality of the image.

Clean the dome using only recommended products for cleaning the dome surface: For acrylic use a soft lint free cloth and plastic or acrylic approved polish. In the case of glass surface use approved glass lens cleaning solution with a soft lint free cloth. Dust on the interior surfaces of the port can be removed with a soft camel hair brush or a blower brush. Caution must be taken when using aerosol devices as not to spray the lens material with the liquid propellant as this may seriously affect the optical properties of the port. Use of pressurize air from a dive tank is not recommended, the force of the air stream may easily dislodge a port lens or O-ring, It is advisable that ports should be removed inspected and O-ring properly lubricated serviced before every dive.

Maintenance of the latches:

The two latches of the AQUATICA Digital are equipped with safety locking tabs, their locking action prevent accidental opening of the latches. To open push the safety locking tab (# 61) and then lift the two latches (# 60) simultaneously as per illustration. When closing and prior to the immersing the housing always ensure that the locking tab mechanism is engaged. Watch for the build-up of corrosion or salt residue around the latches. This will appear as a white material. Lubricate the latches with a small amount of WD-40 to remove the corrosion or salt residue build-up.
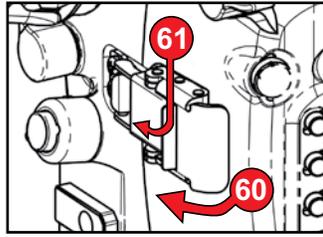
Of the sacrificial anode:

Two anodes (# 58) are attached to the bottom part of the housing and are there to prevent corrosion due to electrolysis, as time goes they will deteriorates and eventually need replacement, contact your dealer for replacement (# 19220).
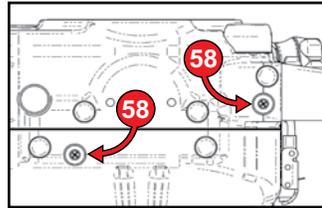
Maintenance of O-rings:

Of the O-Rings:

The O-rings that need to be maintained on a regular basis are the main housing O-ring and the O-ring on the lens port The main O-ring should be cleaned and inspected on a daily basis and the port O-ring should be cleaned every time a port or extension is changed or removed.

1- Remove the O-ring. It is important never to use a sharp instrument when removing an O-ring as this may damage the O-ring groove or the O-ring itself. A dull pointed object or the edge of a credit card usually works well.

Note: The main O-ring is inserted in an inverted V groove to prevent it from popping out accidentally, to remove, use a dull pointed object and insert in the side of the small opening on the lower left hand side corner of the front of the housing. Do not use sharp objects or excessive force, this could result in damage to the sealing surface.
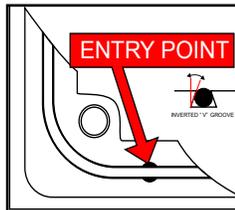
2- Once the O-ring is removed, it should be examined for damage. Check to make sure that the O-ring is free of nicks and cuts and that it retains its original round profile. O-rings that appear to be damaged should be discarded immediately and replaced with new O-rings.

3- Rinse the O-ring with fresh water and dry it with a clean lint free cloth.

4- Clean the O-ring groove (where the O-ring sits) with a cotton swab. Be sure to remove any lint the cotton swab may leave behind. Inspect the groove for damage.

5- Wipe the part of the housing that the O-ring seals against with a clean lint-free cloth.

6- Re-grease the O-ring with a thin layer of O-ring grease until it appears to be smooth and shiny. Do not over grease it. Use just enough grease so the O-ring will pull smoothly through your fingers. Excessive amounts of grease will only serve to attract dirt to the o-ring.

7- Make sure that the O-ring is properly (evenly) installed in the O-ring groove.

8- To reinstall the clean and lubricated O-ring, place the entire O-ring over the groove and start by pushing the O-ring in at each corner then, push the O-ring at each side and finally, work in the rest of the O-ring.

Never start at one end and work your way around the O-ring. This places un-even tension on the O-ring which may cause the O-ring to stretch resulting in excess O-ring, which will have no place to go.

Warning: Use only recommended Aquatica O-ring lubricant (# 19213) on the Aquatica Housing (and use recommended O-ring lubricant from your strobe manufacture on their components O-rings), Petroleum based lubricant used by some manufacturers for their Silicone based O-rings can and will swell the material of our O-rings, this will render the O-ring very difficult to install and more likely will end up being damaged or pinched resulting in dire consequences

Internal O-rings on the housing controls are not user accessible, while these O-rings are not as susceptible to damage as they are not exposed, rinsing properly with fresh water to flush out salt crystals and sand residues will be the proper way to assure trouble free operation. It is recommended by Aquatica to have the housing serviced on a yearly basis. Aquatica has authorized service facility in both continental USA and Europe for this annual maintenance. Before sending any items, always contact us or the service center closest to you (these are listed on our website www.aquatica.ca).

The internal moisture alarm for your AQUATICA Digital housing (Product # 20023) is powered by an easily replaced CR 2032 battery. Please read the instruction sheet provided for your moisture alarm prior to installing the battery.

AQUATICA ™

Digital

AQUATICA Made in CANADA

System Chart

Replacement Viewfinder
19218 INCLUDED

Aqua View 45° Finder
20059

Aqua View Finder
20054

Protective Hard Case
19216

19304

BULKHEAD SELECTION *
20070-NIK 20070-OPT 20070-HYB 20070-KT

AD800

Moisture Alarm
20023
INCLUDED

Hydrophone
19221

18841

Maintenance O-ring Kit

Rebuilt O-Ring Kit 18842

Sacrificial Anodes
(4 x anodes and screws)
19220

Deep Rated spring Kit
19217

Nikon Type 4 Lens Chart

Light Baffle
18472

* Bulkhead connections

20070-NIK Double Nikonos connectors
20070-OPT Double Optical connectors
20070-HYB One optical & one Nikonos connectors
20070-KT One Ikelite 5 pins connector

(to know more about connectors refer to our website at www.aquatica.ca)

| 18456 | 18463 | 18453 | 18462 | 18457 | 18458 |

PORT EXTENSION RINGS

18469
Extension to Port locking collar

18407
9.25" Mega Dome
INCLUDED
18506
Neoprene Cover

18405
8" Dome Port
INCLUDED
18500
8" Neoprene Dome Cover

18480
8" Dome Shade

18503
8" Neoprene cover for dome shade

18409
6" Dome Port
INCLUDED
18502
6" Neoprene Dome Cover

18484
6" Dome Shade

18504
6" Neoprene cover for dome shade

18410
4" Mini Dome 100
INCLUDED
18508
Neoprene Cover

18429
AF Macro Port Low Profile
INCLUDED
18508
Neoprene Cover

18428
AF Macro Port
INCLUDED
18505
Neoprene Cover

18426
AF/MF Macro Port
INCLUDED
18505
Neoprene Cover

Nikon Type 4 Lens Chart

19351 Close up lens holder

19352
+5
Close Up lens

19353
+10
Close Up lens

19350
Close Up Kit
Includes: holder,
+5 & +10 close up lenses

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AQUATICA™
Digital

FOCUS / TARGET LIGHT SET UP

17517
17509
17508
17854
17518
17857
17853

17516
17515
17514
17519
Macro Master Arm

17513
17512
17511

Technical Lighting Control

17510
17506
For Sea & Sea strobes

17651
1/4"x 20 threads

17858
TLC holder for
Ikelite TTL converter
and Double cable

17682
17889
17681

17671

17887
Iron Strobes
17758
UK Aqua Sun
17757
8mm knob
17754
Nikonos SB-105
17753
Nikonos DS200
17752
Ikelite Knob Ikelite DS200

17800
17681

17677
17673
17667

For Ikelite TTL
Slave sensor
17856

Arm clamp
to 1" ball
17802

17659
1/4" x 20 threaded hole

17655
8mm threads

AMPHIBICO

Buoancy Compensating Float # 17890

Buoancy Compensating Float # 17892
with arm clamp

17507
Revised with 17762
Knob head adaptor

17555
For Ikelite Grip

17520

17501
Provided with 17692
Ball Head Adaptor

17800

17651
1/4"X 20 threads

17657

17750

17554
Four point mounting base

17552
5mm threads

17553
for 1/4"-20 3/4" threaded

17550
1/4"X 20 threads

17655
8mm threads
17692
Ikelite DS 125, DS 50, DS 51

Ikelite DS 200
17688
17690
Nikonos SB-105

17800

17691
Sea & Sea

17888
Iron

17651
1/4"x 20 threads

17677
17673
17667

www.aquatica.ca

Revised Nov 11, 2011

No pins, no O-rings just tough, reliable performance from TLC

AQUATICA ™

Digital

WARRANTY

PLEASE READ CAREFULLY

One year Limited Warranty.

Thank you for purchasing an AQUATICA manufactured product! Your AQUATICA housing is handcrafted by a small group of specially trained individuals - each of whom takes the most pride and satisfaction in offering you the best underwater camera housings in the world. All AQUATICA products are guaranteed against defects in material or workmanship for (1) one full year from the date of purchase for consumer use. these same products when used commercially will carry a 90-day warranty. No statutory warranty applies. Camera housed in AQUATICA housings are not covered under this warranty and ANY WATER DAMAGE SUSTAINED DUE TO INSTALLATION ERROR OR ANY OTHER REASON IS NOT THE RESPONSABILLITY OF AQUATICA. Therefore the appropriate insurance should be maintained by the user.

Warranty does not apply to replaceable seals or damages to impacts or abrasive surfaces. Warranty applies only to products purchased from authorized AQUATICA dealers and does not extend beyond the original retail purchaser. Unauthorized modifications or repairs will automatically void this warranty. this applies to removal of serial numbers and AQUATICA identification labels.

To obtain service during or after the warranty period you must notify AQUATICA at 514-737-9481
and ship BY REGISTERED MAIL (INSURED) **ONLY**, enclosing your proof of purchase to:

AQUATICA
3025 De Baene
Montreal (Quebec)
H4S 1K8

Mark clearly on your package "Canadian goods returned for repair"

Do not ship by any other means.
Unauthorized packages will be refused.

YOUR SERIAL NUMBER_____