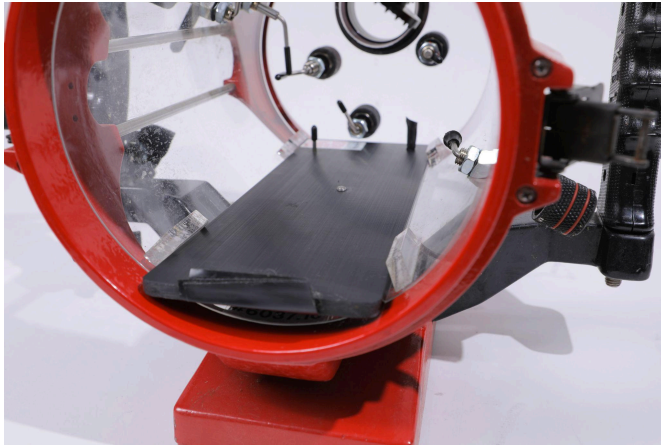


IKELITE Underwater Housing for Sony VX1000

Unlatch the front of the housing and remove the black camera plate from inside.



Screw the included wide-angle lens adapter onto the VX1000



Using the tripod screw, attach the plate to the bottom of the VX1000 camcorder, ensuring that the two guide pegs are at the BACK of the camera.



Slide the base plate with the camera attached into the housing with the camera's lens facing out towards the opening of the housing.

Make sure to pull all of the camera control knobs of the housing OUT to allow for sliding the camera in.



With the camera inside of the housing, push the knobs in so that they make contact with the camera to allow for control of: FOCUS, EXPOSURE, POWER, RECORD, ZOOM, SHUTTER SPEED, WHITE BALANCE, RECORD LEVEL

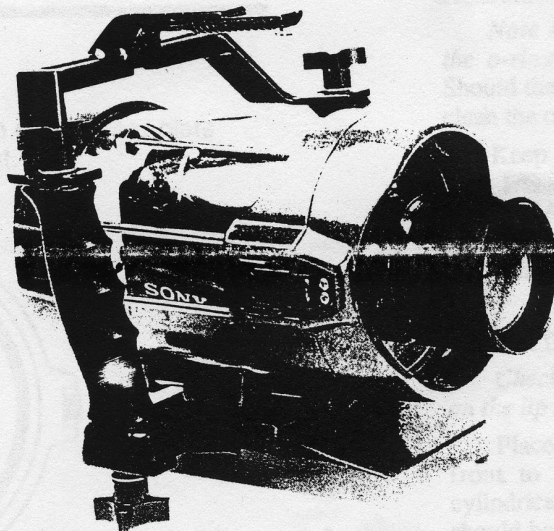
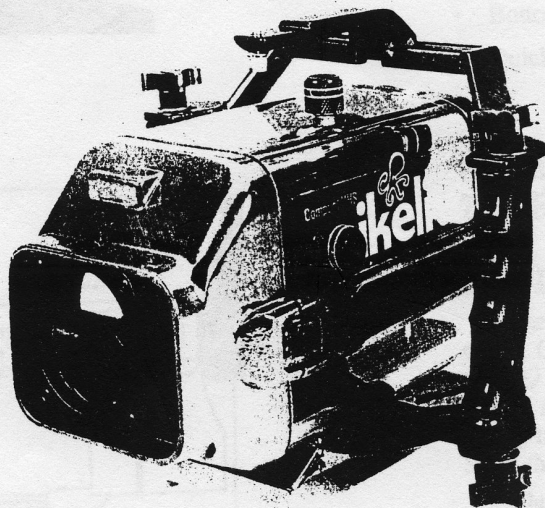


Close the front of the housing

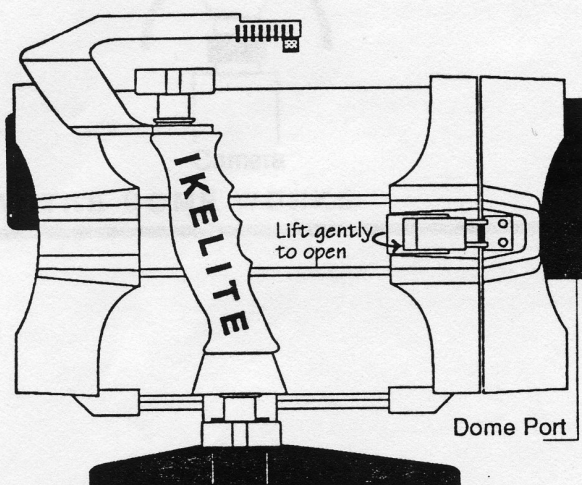
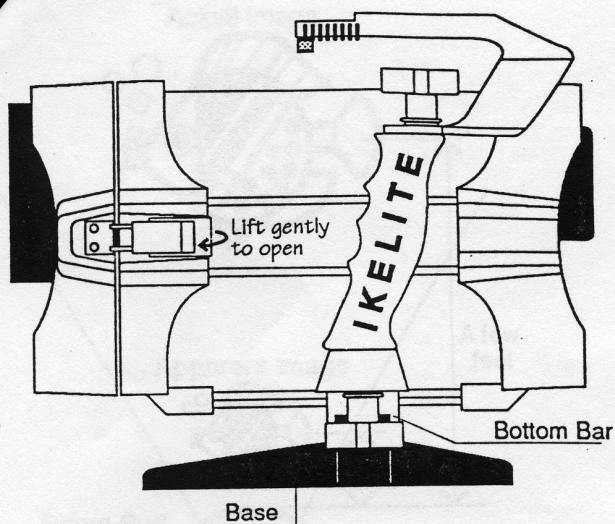


IKELITE VIDEO CASE

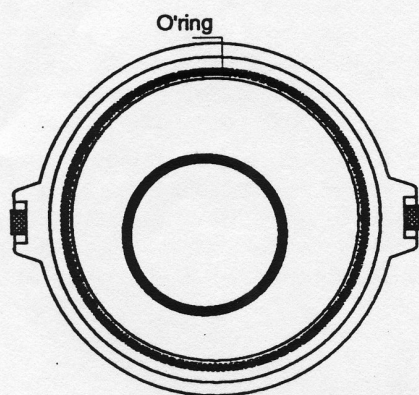
CYLINDRICAL HOUSING
General Instruction Manual




ikelite



Place the clean o-ring on the lip of the clear plate inside the front.



O-RING POSITION

HOUSING COMPONENTS

HOUSING COMPONENTS

- Front with Dome Port
- Cylindrical Housing Body
- Lid Snaps & Hooks

HANDLE & TRAY

- Top-Handle
- Vertical Contour Handles
- Bottom Bar
- Quick Release Base with Toggle Lever

OPENING & CLOSING THE HOUSING

OPENING THE HOUSING

The front is fastened to the clear housing by two lid snaps. Grasp each lid snap one at a time and gently lift up. *DO NOT allow them to snap open quickly.* Unfasten the lid snaps from the hooks on the front. Remove front o-ring before storing the housing for a prolonged period. Store the o-ring in a plastic bag inside the housing.

The aluminum frame and rods are permanently secured to the clear housing and back plate; *DO NOT* disassemble. *DO NOT* remove the clear plate from the aluminum front.

O-RING

Note the positioning of the o-ring inside the front; the o-ring is positioned on the lip of the clear plate. Should the o-ring stick to the housing body when opened, clean the o-ring and place it on the lip of the clear front.

Keep the front o-ring and all sealing surfaces clean. *DO NOT* stretch the o-ring when cleaning. *NO LUBRICATION* is needed on this o-ring. Never use spray lubricant as it will crack the plastic. *Place the clean o-ring on the lip of the clear plate inside the front.*

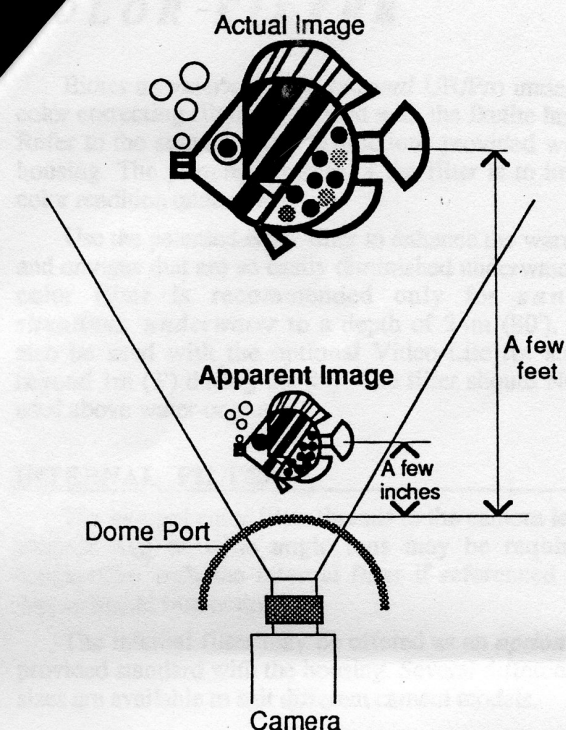
CLOSING THE HOUSING

Check that the o-ring is clean and positioned properly on the lip of the clear front plate.

Place the lid snaps in the open position. Rotate the front to align the hooks with the lid snaps on the cylindrical housing. Place the front against the housing; it should be flat against the housing and *NOT* tilted on one side. *Fasten the lid snaps at the same time-DO NOT fasten one at a time.*

CHECKING THE O-RING SEAL

Look thru the front plate for a solid o-ring seal line around the perimeter; this indicates a proper seal. O-ring seal should appear as a true circle without indentions or extrusions.



HOW THE DOME WORKS

DOME PORT

The dome is factory sealed to the front; DO NOT remove.

Treat the dome port as a camera lens. The port sleeve helps protect the dome from scratches. Upon entering the water, gently wipe the front of the dome with your fingers to remove the small air bubbles. Immediately after use, rinse and gently dry the dome to avoid water spotting.

REASONS FOR THE DOME

- Increases color saturation.
- Corrects for refraction, thereby providing the same coverage angle underwater as above water.
- Increases definition of underwater images.

HOW THE DOME WORKS

The dome port offers no special optics *above water* and simply functions as a clear window.

Underwater, the dome functions as a lens by creating an apparent image of the actual subject. This apparent image is located a few inches in front of the dome even though the actual subject may be several feet away.

CLEANING THE DOME

Immediately after use, rinse and gently dry the dome to avoid water spotting. DO NOT use alcohol or window cleaners on the dome as either may cause cracking. Use a mild soap solution or lens cleaner. Minor exterior scratches will usually fill with water and not affect the picture quality.

The dome is factory sealed to the front; DO NOT remove. Return the front to Ikelite if the dome becomes badly scratched.

COLOR FILTER

Either an *external* or an *internal* UR/Pro underwater color correcting filter is included with the Ikelite housing. Refer to the supplemental instructions provided with the housing. The primary purpose of the filter is to improve color rendition underwater.

Use the patented color filter to enhance the warm reds and oranges that are so easily diminished underwater. The color filter is recommended only for *sunlight situations underwater* to a depth of 24m (80'). It can also be used with the optional Video-Lite for subjects beyond 1m (3') during the day. The filter should NOT be used above water or at night.

INTERNAL FILTER

The internal color filter threads to the camera lens; an adapter ring or wide angle lens may be required in conjunction with the internal filter if referenced in the supplemental instructions.

The internal filter may be offered as an *option* if not provided standard with the housing. Several different filter sizes are available to suit different camera models.

EXTERNAL FILTER #6441.42

The external color filter secures to the outside of the dome port on most Ikelite Video Cases. The external filter may be offered as an *option* if not provided standard with the housing.

Installation: Note the two small rectangular openings in the rubber filter ring. Position the filter with the small openings at the top and bottom and then press the rubber filter ring over the dome port.

Cleaning: The external filter is protected with a scratch resistant coating; however, special care should always be taken when handling. Immediately after use, rinse and gently dry the filter to avoid water spotting. Then use a mild soap solution or lens cleaner and a very soft cloth to clean the filter. Minor scratches will usually fill with water and not affect the picture quality.

Usage: You may find it best to enter the water with the filter secured on the dome; however, once underwater you will need to remove the filter, wipe air bubbles from the dome and filter, and then reinstall the filter on the dome. It is extremely important that no air bubbles are trapped between the dome and filter.

Light Refraction: Do not shoot into the sun while using the external color filter because it may create a noticeable refraction effect. Usage of an accessory wide angle lens or lens shade threaded onto the camera lens will help block refracted light inside the housing from entering the camera lens.

LENS CHOICES

The Ikelite housing is designed to use the camera's auto focus feature underwater.

For best results, shoot thru as little water as possible. Picture quality and color rendition improve dramatically as you move in closer to your subject. The wide angle setting of the zoom control has excellent depth of field and allows you to move in closer.

The standard camera lens provides the fastest focusing and greatest flexibility, from wide angle to telephoto. Newer cameras provide a wider coverage angle and some models no longer require an accessory wide angle lens. For certain cameras, an accessory wide angle lens may be supplied with the housing or offered as an *option*. Refer to the supplemental instructions provided with the housing.

FOCUSING UNDERWATER

Camera's auto focus feature must be used underwater. Many housing models feature a focus lock control for special situations when you want to cancel the auto focus and lock the focus.

AUTO FOCUS

Initially set the zoom control to the wide angle setting. The camera will automatically focus on the subject. The wide angle setting is the preferred setting underwater because it provides excellent depth of field and allows you to move in closer to your subject.

For best results, move in on your subject to shoot thru as little water as possible. Picture quality and color rendition improve dramatically as you move in closer to your subject.

If you change the focal length (by adjusting the zoom control), the camera may need to automatically refocus. DO NOT zoom from wide angle to telephoto in one motion because the camera will have difficulty refocusing. You should zoom in stages; stop and allow the camera to auto focus before zooming in further. We recommend that you stop recording while adjusting the zoom.

It is easiest to let the camera auto focus near the telephoto range and then zoom back to wide angle. Once a subject is in focus, you can zoom in and out, and the subject should remain in focus. The camera will need to refocus only if the subject distance changes. Remember that the wide angle setting has the best depth of field. The camera will even focus down to macro while in wide angle. Use the focus lock for special situations when you want to cancel the auto focus and lock the focus.

It is always important to be close to your subject. The zoom control on the housing has limited use because only about 3/4 of the zoom range can be utilized underwater. As you zoom towards the telephoto range underwater, you may reach a point whereby the camera will no longer be able to focus.

Above Water Use

The dome port offers no special optics *above water* and simply functions as a clear window.

VIGNETTING

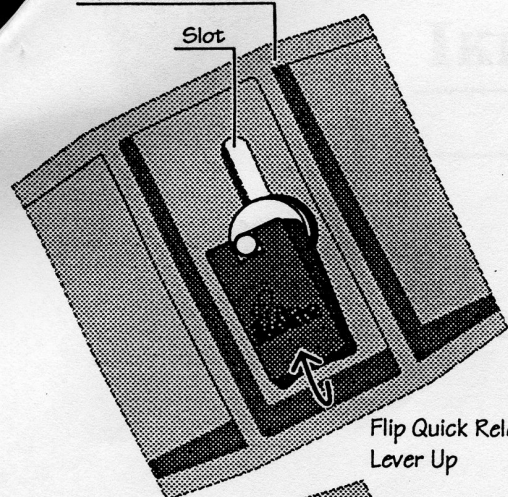
Due to the physical limitations of the housing, you may notice slight vignetting when in full wide angle.

The CCD chips inside the camera are not perfectly centered and this centering can vary from camera to camera. Therefore, the camera might record one or more corners of the dome port on film in full wide angle. A slight shading of the corners (vignetting) would be noticed when viewing thru the electronic viewfinder.

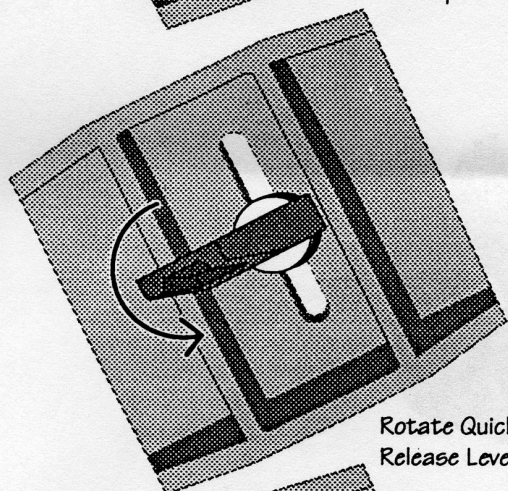
To eliminate vignetting, simply zoom out of full wide angle slightly. This reduces the overall coverage angle only slightly.

Quick Release Base

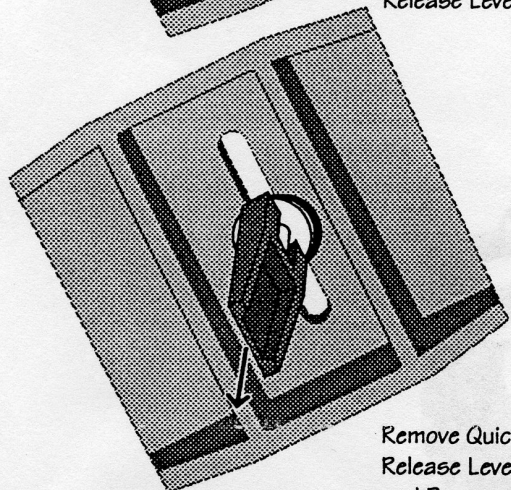
Slot



Flip Quick Release Lever Up



Rotate Quick Release Lever



Remove Quick Release Lever and Base

BASE QUICK RELEASE

We recommend adding an ALL RISK floater to your homeowner's insurance policy in the event you damage, flood, or lose your camera or Ikelite housing. Ikelite warranty does NOT cover customer neglect.

HANDLE & TRAY

Handle and tray components may be removed for travel.

TOP-HANDLE

The Top-Handle features a center grip for balanced single hand transportation of the housing.

BASE QUICK RELEASE

Quick release toggle lever located underneath the base allows the base to be easily removed from the bottom bar.

Firmly grasp the base with one hand and use your other hand to pull out on the toggle lever. Next rotate the lever 90° to remove the base.

BOTTOM BAR

The bottom bar can also be unbolted for easier packaging and transportation. After removing the bottom bar, if you rethread the bolts into the housing mount for storage, **DO NOT** tighten these bolts as they can press against the clear housing and crack the plastic.

DO NOT attempt to remove the aluminum frame from the clear housing.

ADJUSTING BUOYANCY

Lead weight can be inserted inside the vertical contour handles if desired to adjust the buoyancy. Some housing models may already incorporate lead weight inside the handles; the lead can be removed if you find the housing to be negatively buoyant underwater.

OPTIONAL VIDEO-LITE

Choose from optional Ikelite Pro Video-Lite II and Modular Video-Lite series for best buoyancy control.

Optional Pro Video-Lite II snaps underneath the Video Case in place of the quick-release base. Arm for the lite head mounts to the end of the bottom bar and the switch mounts to the top of the vertical contour handle.

Optional Ikelite Modular Video-Lite mounts to the end of the bottom bar on the Video Case.

RECOMMENDATIONS

Install the camera and seal the housing in a cool, dry environment such as an air conditioned room to avoid trapping moist air inside. Store it in a cool, shaded area before your dive to avoid heating the air inside the housing. Condensation or fogging can occur when warm, moist air inside the housing is rapidly cooled underwater.

Visual inspections are important. Take the time to visually inspect the o-ring seals and controls above water. Immediately upon entering the water, check the housing to assure that the housing is sealed properly. Also gently wipe the front of the dome with your fingers to remove the small air bubbles. Immediately after use, rinse and gently dry the dome to avoid water spotting.