

# Fitting & Using Your Leak Detector

## General Information:

Your *Leak Detector* has two basic components:

1. Battery Holder/Circuit/LED assembly
2. Sensor Strip



When the device detects water leakage in your camera housing, the bright LED (Light Emitting Diode) begins flashing rapidly, warning you of the problem. At this point the best course of action is to finish the dive as soon as safely possible, (within recommended safe ascent rates and decompression tables) keeping the housing in its normal horizontal position (ie. with the lens port facing forward) do not roll the housing around looking for water, as then any water will also roll-around inside the housing and possibly come into contact with the camera and/or lens. After the dive rinse and dry the housing – then remove the camera from the housing and check for damage to the camera and for the source of leakage in the housing.

The *Leak Detector* works by sensing moisture in the lower part of the housing on the two Copper Sensor Lines (gold coloured) on the long fiberglass strip shown below.



The copper lines are designed to be at the lowest part of the housing and facing the bottom of the housing, so that any moisture/water will immediately touch the copper lines. The opposite side of the copper lines has a sticker with our website name on it ([UWleakdetector.com](http://UWleakdetector.com)), this surface should be facing upwards in the housing.



The LED should be visible to the photographer from the rear of the housing. This way if the *Leak Detector* LED is flashing, it will be seen when the next photo is taken or reviewed.

Ensure the location for the Battery Holder/Circuit/LED assembly leaves enough wire length for the Copper Sensor Lines to lay flat in the housing and that the wires do not interfere with any camera controls or 'O' rings.

## Step by Step Fitting Instructions:

1. The Battery Holder/Circuit/LED assembly has a piece of adhesive 'velcro' stuck to the rear of the assembly. Another piece of adhesive velcro (the same size) is attached to it at the time of purchase.



2. Remove just the adhesive backing tape from the second piece of 'velcro' on the Detector Circuit / LED assembly. But leave the second piece of 'velcro' in position on the back of the Battery Holder/Circuit/LED assembly).



3. Now gently push and hold the rubber lens-surround away from the left-hand side of the housing (see photo below). Then push the Battery Holder/Circuit/LED Assembly into the position shown inside the housing. This will locate the second piece of adhesive-backed (sticky) 'Velcro' onto the housing. Now the Battery Holder/Circuit/LED assembly are fully removable by pulling the two 'Velcro' surfaces apart. Push firmly on the two pieces of 'Velcro' that are now stuck to the inside of the camera housing and the body of the *Leak Detector*, to ensure the adhesive is stuck properly.

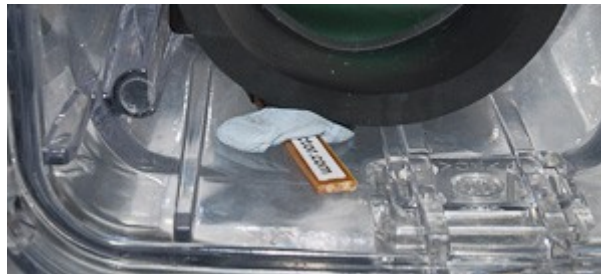


**\*IMPORTANT: Make sure the position selected, leaves room for the camera to fit without interfering with the LED light.**

4. Remove the paper packaging from the 'Blue Tack' adhesive putty.



Next locate the Copper Sensor Lines at the position indicated in the photo below (between the two long ridges on the bottom of the housing). Use the supplied piece of 'Blue Tack' adhesive putty to hold the Sensor Lines in place. Make sure the *UWleakdetector* sticker is facing **upwards** and the actual copper strips are facing downwards. The 'Blue Tack' should be pushed downwards on to the top, overlapping to touch the housing on each side. This will stop the Copper Sensor Lines moving and interfering with the camera's controls, but allows the *Leak Detector* to be easily removed.



That's it! All installed and ready to go. But **please** read the “**Before Use**” section below, before using the *Leak Detector*.

#### “Before Use”

- Your *Leak Detector* is powered by a 3 Volt Button Cell (CR2032) which is already installed in the battery holder.
- To test the circuit is working;
  1. Briefly touch a damp finger onto the copper sensor lines; the LED should begin flashing quickly. Then dry the moisture from the Copper Sensor Lines with a tissue.
  2. Now touch your damp finger (briefly) another time; the LED will now flash slowly. Then dry the moisture from the Copper Sensor Lines with a tissue.
  3. Now touch your damp finger one more time and the LED will stay on (without flashing). Then dry the moisture from the Copper Sensor Lines with a tissue.
  4. Now touch your damp finger one last time and the LED will turn-off (No light flashing). Then dry the moisture from the Copper Sensor Lines with a tissue.
  5. With the battery installed and the LED off, The *Leak Detector* is now in "Detecting Mode" and ready for use.
  6. Make sure the the copper lines are dry and then instal the *Leak Detector* in the housing - Against the ‘velcro’ previously installed. Fit your camera to the housing and check that nothing is interfering with sealing 'O' Rings/Controls/Sealing Surfaces and that the camera functions correctly without any physical interference from any of the *Leak Detector* components.

## To Change the Battery

- You can expect around one year's use from the battery supplied with your unit, but do a regular check to see that it still has life.
- If the *Leak Detector* light is dull or not flashing, the battery may be flat. It is time to replace it.
- To remove the battery from the battery holder. Flick the lid with a finger nail to open the battery holder.



- Remove the existing battery and replace with a new unit. Please note that the battery must be a CR2032 type. The new battery is installed with the Positive (+) side facing outwards (see photo below).



- Replace the battery holder lid and push closed until the lid clicks into place.

**If you experience any difficulties installing your *Leak Detector*, or simply can't understand any of the instructions, or if you would like to ask a question, then simply click on [this link](#) and let us know your problem or question and we will help guide you through the process.**