

**ALLIANCE**<sup>®</sup>  
by Lungfish Dive Systems Ltd.

# THE REBREATHER FULL FACE MASK SOLUTION

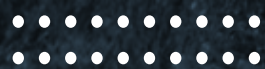


**LUNGFISH**

Diver: Mark Powell - TDI

2022





The **ALLIANCE** on an Ocean Reef Full Face Mask / Integrated Diving Mask (IDM) combines the benefits of both CCR and IDM systems and brings new advantages of its own.

All the advantages of the IDM:

- Comfort
- Safety From Drowning
- Clear Underwater Communications

All the advantages of the Rebreather:

- Endurance
- Warm Gas
- Silence
- Reduced Decompression

Unique to the **ALLIANCE**:

- Unrestricted Breathing
- Unrestricted Head Movement
- No Noise On Communications
- Fog Free Vision

Fits most CCR systems (contact Lungfish)



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## SAFETY

The **ALLIANCE** allows an instant switch to open-circuit bailout, and the head retention system of the IDM reduces the risk of drowning due to accidental loss of mouthpiece. These features have been a continuous request of the training agencies and safety councils for many years, especially for sport divers. Unlike current bail-out mouthpieces and mouthpiece retaining straps, this is achieved with no compromise to comfort or ergonomics, with no jaw fatigue or restriction to head movement.

## PERFORMANCE

Resistance to breathing, especially at depth, is an important factor in rebreather use, as gas supply is driven by the user's lungs, not injected under pressure. In current CCRs the bite-mouthpiece is the choke point, restricting the airway, hugely increasing breathing resistance, limiting ventilation and encouraging CO<sub>2</sub> retention in real dives. The **ALLIANCE** removes this restriction and allows the diver to breathe with an open mouth, enabling more effective ventilation. With an oronasal mask for minimised dead-space, rebreathing of CO<sub>2</sub> is also minimised.

The **ALLIANCE** is a significant performance upgrade over a standard DSV or BOV.

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## CLEAR COMMUNICATIONS

On open circuit IDM, communications use increases gas consumption, and comprehension is hindered by the noise of the demand valve and exhaust. The rebreather / IDM combination removes both problems.

Speech is clear enough to be recorded on a mask-mounted camera, and an extra microphone port is provided for local recording, enabling a diver to describe what can be seen on camera.

Effective communications improves safety for the otherwise invisible rebreather diver and is of enormous use in underwater work and diver training or try dives.

## A CLEAN AND DRY LOOP

A rebreather must not allow water to enter the breathing loop. The IDM has a very effective seal and the positioning of the **ALLIANCE** hose attachments keeps water from draining into the loop.

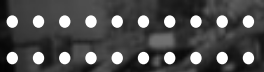
The **ALLIANCE** retains the chin exhaust of the Ocean Reef IDM, enabling rapid purging of any water that does enter in open or closed circuit mode.

The lack of a bite mouthpiece prevents saliva entering the rebreather, a further bonus.



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## COMFORT

The Ocean Reef IDM is notable amongst Full Face solutions for comfort, lacking protruding objects that restrict head movement or risk unsealing the mask through leverage.

The **ALLIANCE** CCR adaption is designed to retain these benefits, and not interfere with other IDM functions in any way. In contrast to many standard bite-mouthpiece DSVs and BOVs, the **ALLIANCE** offers no restriction to head movement and avoids jaw fatigue.

## UNRESTRICTED VIEW

The **ALLIANCE** retains the transparent bodywork of the Ocean Reef IDM, allowing a clear view in all directions.

On top of this, the **ALLIANCE** is highly resistant to fogging, and combined with complete freedom of head movement, the diver has a vastly improved view of the underwater world.



ALLIANCE





## OPTIONS

Colours Available:

- Black
- Cobalt
- White

Accessories Available:

- Underwater Communications
- Integrated lights (March 2022)
- Point-Of View Camera Mounts
- Torch Mounts
- Additional Microphone For Sound Recording
- Hydration Device (Date T.B.C.)
- GEMINI** High-Flow Gas Switch Block
- High-Flow Quick Disconnects

Adaptors to fit different rebreather systems

