

HALCYON

SYMBIOS



**HALCYON REDEFINES DIVING WITH THE
SYMBIOS REBREATHING AT DEMA 2024**



INTERVIEW



A conversation between IANTD CEO Luis Augusto Pedro and Halcyon CEO Jarrod Jablonski that started at the German Boot Show in January 2024 was finalized during DEMA 2024 and IANTD is very excited to announce the support to this outstanding rebreather.

The Halcyon Symbios rebreather at this year's DEMA Show signals a bold leap forward in diving technology. Designed with travel and versatility in mind, the Symbios stands out as a compact, chest-mounted Closed Circuit Rebreather (CCR), aimed at divers seeking a streamlined yet advanced system.



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Key features include solid state oxygen sensors, an integrated trim sensor to optimize underwater positioning and a wireless Heads-Up Display (HUD) that delivers essential dive data directly to the diver's mask. The system is also notable for its innovative thermal efficiency, which enhances performance in

cold-water conditions by insulating critical components. With seamless wireless connectivity, it supports data integration from a variety of sources, including pO₂ transmitters, tank sensors, and even GPS-enabled devices.



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Halcyon's new offering reflects a commitment to merging cutting-edge technology with practical diving needs, making the Symbios an exciting addition to the market. While its release date and pricing remain under wraps, the buzz at DEMA underscores the industry's anticipation for this modern, versatile rebreather system.

Exclusive Interview with Halcyon Diving Systems: The New Symbios Rebreather

Conducted by Kadu Pinheiro, Editor of IANTD Nitrox Magazine and Kyle Harmon from Halcyon

Kadu Pinheiro: Thank you for taking the time to walk us through the new Halcyon Symbios Rebreather. Let's start with the basics—what makes this unit stand out?

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Kyle Harmon: The Symbios is designed to be both innovative and user-friendly. It's a compact, chest-mounted Closed Circuit Rebreather (CCR) that features independent inhalation and exhalation counterlungs. Each side is color-coded—green for inhalation and red for exhalation—making

setup and troubleshooting straightforward.

Kadu: That color-coding is clever. What about the electronics?

Kyle Harmon: The head houses all the electronics, which include a wireless handset and Heads-Up

Display (HUD). The HUD attaches to your mask and wirelessly updates your critical dive information, like depth and gas readings. It seamlessly switches between open and closed circuit with a simple twist on the chest unit.





Kadu: Speaking of ease of use, how intuitive is the breathing system?

Kyle Harmon: Very simple! The mouthpiece looks like a standard DSV (Dive Surface Valve), but it's lightweight

and locks into place easily. Switching between circuits automatically adjusts your breathing mode. If you bottom out your inhalation lung, an Automatic Diluent Valve (ADV) fires to provide gas.

Kadu: What about customization and safety features?

Kyle Harmon: Divers can customize screen displays, choose gradient factors, and program set points for pO₂. The system averages three sensors but splits the readings to show individual

cells if there's a discrepancy of more than 0.05. The solenoid is medical-grade, robust, and easy to replace in the field, making it reliable for diverse diving conditions.

Kadu: Sounds ideal for both technical and recreational divers. What's the battery life like?

Kyle Harmon: A full charge offers around 40 hours of operation. Charging uses a standard four-pin USB connection, so it's easy to manage.



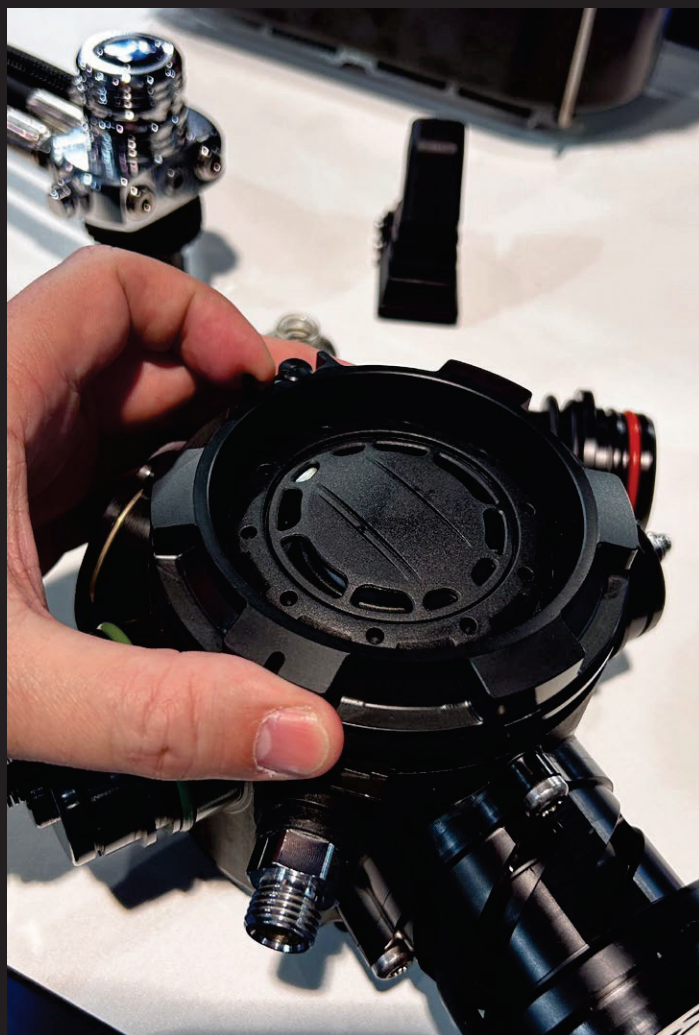
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Kadu: Is maintenance equally straightforward?

Kyle Harmon: Absolutely. The unit is designed for durability and field maintenance. You can replace key components, like the oxygen sensors, oxygen sensors circuit board and solenoid, without specialized tools. The calibration process is simple, guided step-by-step by the handset.

Kadu: Finally, how has the diving community reacted so far?

Kyle Harmon: Feedback at DEMA has been overwhelmingly positive. Divers appreciate the portability, innovative features, and the fact that it's intuitive enough for newer CCR users while still meeting the needs of seasoned technical divers.



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Kadu: Thank you for this detailed walkthrough! The Symbios is shaping up to be a game-changer.

Kyle Harmon: Thank you! We're excited to see how it enhances the diving experience for our community.

This exclusive preview highlights why the Halcyon Symbios is one of the most anticipated releases in the diving industry. Stay tuned for more updates and hands-on reviews in upcoming editions of IANTD Nitrox Magazine!

