EOlife[®] Perfect your Tidal Volume delivery and improve survival

EOlife is the only ventilation feedback device to calculate the actual volume of gas reaching the patient's lungs (tidal volume)

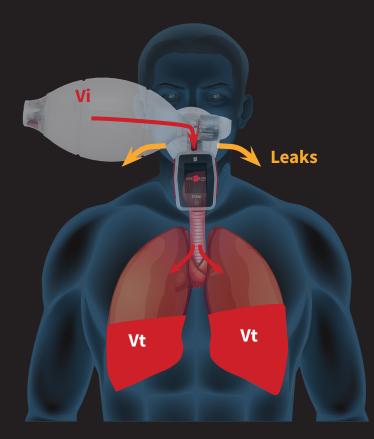




WHY IS TIDAL VOLUME IMPORTANT ?

3x

A better **tidal volume** triples survival to discharge.⁽¹⁾



4x

A better **tidal volume** quadruples the number of patients discharged in a good neurological state⁽¹⁾

Tidal Volume (Vt) is the volume of gas that actually reaches the

patient's lungs and is based on the measurement of expiratory volume, inspiratory volume and leaks calculated during both phases. ERC and AHA Guidelines recommend that adult cardiac arrest patients should be ventilated with a tidal volume of 6 to 8ml/kg of body weight. Insufflated Volume (Vi) cannot represent tidal volume as it does not take leaks into account.

60% of patients received less than 250ml of Tidal Volume in more than half of the compression pauses, mainly due to leakage ⁽¹⁾ resulting in a significant negative impact on survival.



The only ventilation feedback device (VFD) to calculate the volume of gas reaching the patient's lungs (**TIDAL VOLUME**)



EOlife®

CE-marked and FDA-cleared medical device enabling real-time calculation of insufflated volume, **tidal volume**, and ventilation frequency, along with **visual feedback** to **deliver ventilation in accordance with ERC or AHA recommendations**.



ACCURATE MEASUREMENTS. MONITOR THE QUALITY OF YOUR VENTILATIONS IN REAL TIME.



Vi

Vi is the insufflated volume of air/oxygen measured at the output of the bag when you compress it.

Vt

Vt is a precise estimation of the tidal volume, meaning the amount of air/oxygen that has entered the patient's lungs.

Freq

Freq is a calculation of the ventilation frequency based on the trend of the latest ventilation cycles.



The tricolor bar graph indicates in real time whether each ventilation if the Vi is between 6 and 8 ml/kg



In 'continuous' mode, a countdown timer guides the user to maintain a frequency of 10/min



If the parameters are outside the tolerances, a visual alarm activates at the bottom of the screen

THE ULTIMATE CONNECTION. RECORD & TRANSFER YOUR DATA, MANAGE YOUR UPDATES .



EOlife Connect MD app allows the recording and transfer of data with EOlife Medical Device. Ideal for event review, clinical trials and research.

(+)

Robustness and reliability. Meeting the needs of healthcare professionals worldwide.

Ventilation data (Vi, Vt, frequency) is recorded cycle by cycle, allowing for unmatched analysis of manual ventilation.



Compatibility and simplified

updates. Export and visualize your ventilation data on every OS.

EOlife Connect MD is compatible with Mac, PC, and Linux, enabling the export and visualization of EOlife data. Additionally, it offers quick updates in just one minute, significantly simplifying the user experience and ensuring your EOlife device is always equipped with the latest enhancements and innovations.



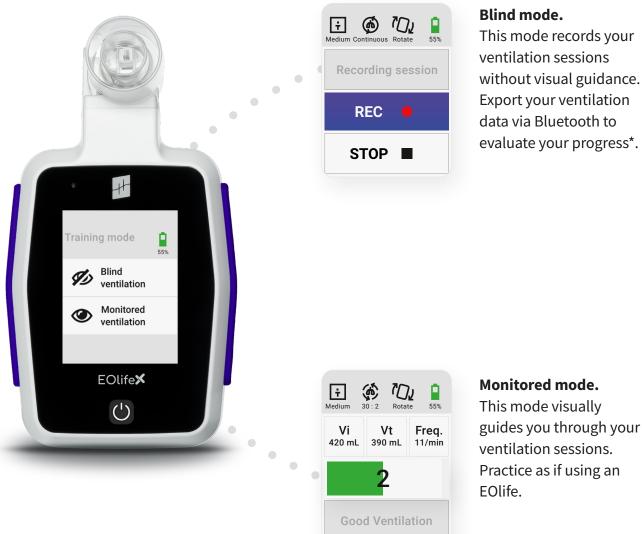
The ultimate **tool** for High Performance Ventilation training





Training tool allowing calculation and recording of insufflated volume, tidal volume, manual ventilation frequency, in real time, to practice ventilation in accordance with ERC and AHA recommendations. EOlife X enables training on adult and paediatric (> 1 year) manikins.

TWO TRAINING MODES. FOLLOW THE GUIDE OR TEST YOUR SKILLS.

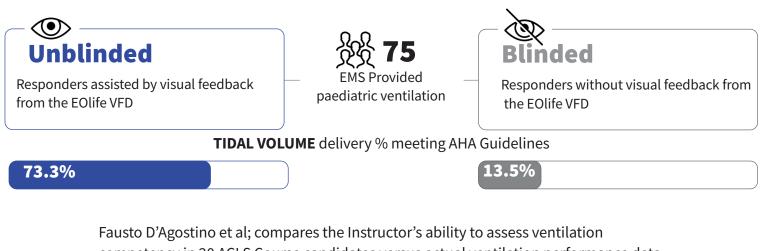


Blind mode.

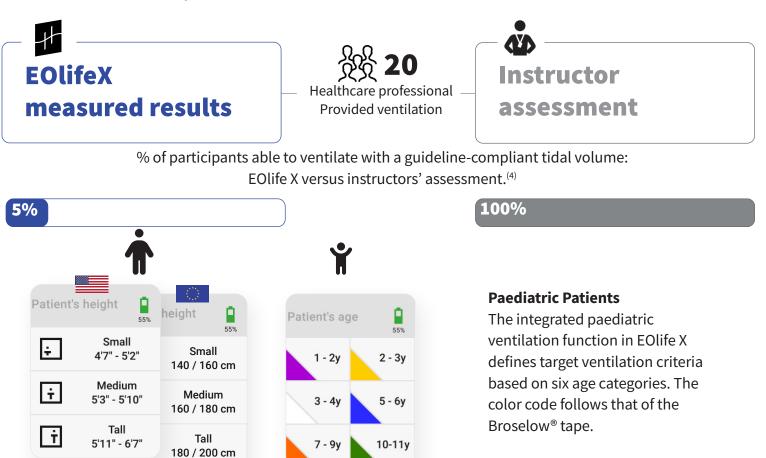
This mode records your ventilation sessions without visual guidance. Export your ventilation data via Bluetooth to evaluate your progress*.

ADULT AND PAEDIATRIC. DISCOVER WHY VENTILATION FEEDBACK DEVICES ARE NEEDED: **PUBLISHED DATA**

Joseph Finney's 2024 poster presentation describes the quality of EMS-provided paediatric ventilation in a simulated respiratory arrest scenario. ⁽²⁾ The primary outcome was the proportion AHA guideline compliant ventilations.



competency in 20 ACLS Course candidates versus actual ventilation performance data as recorded by the EOlifeX Ventilation Feedback Device.⁽⁴⁾



TRACK YOUR SKILLS PROGRESS OVER TIME.



Thanks to the EOlife[®] Connect app, you can download and save each of your Training sessions to allow Booster Training and Spaced Learning as recommended by AHA to improve CPR skills retention. ⁽³⁾

EOlife[®] Connect app is the only solution that offers a detailed analysis of the ventilation parameters, thus allowing to focus on the areas to correct and improve.



COMPARISON MATRIX





YES		NO
YES		YES
NO		YES
Adult		Adult / Child (> 1 year)
YES		YES
YES (requires the EOlife Connect MD application) see page 6		YES (Requires EOlife Connect on Apple Store or Google Play Store.) see page 10
Single-use (Flowsense)		Reusable (Flowsense X)
Battery and charger included. (transport case and sensor to be purchased separately)		Battery, charger, trans- port case, and 1 sensor included
	YES NO Adult YES (requires the EOlife Connect MD application) see page 6 Single-use (Flowsense) Battery and charger included. (transport case and sensor to be purchased	YES NO Adult YES YES (requires the EOlife Connect MD application) see page 6 Single-use (Flowsense) Battery and charger included. (transport case and sensor to be purchased

TECHNICAL SPECIFICATIONS

Dimensions (L x W x D)	130 mm x 75 mm x 30 mm (5.11 in x 2.95 in x 1.18 in)
Weight	170 grams ±5 grams (5.997 oz ± 0.176 oz)
Operating conditions	 Temperature from 0°C (32° F) to +40°C (104° F) Relative humidity from 15% to 95% (non-condensing) Atmospheric pressure from 620 hPa (altitude of 4000 m) to 1060 hPa (altitude of -500 m)
Transient operating conditions (up to 20 minutes maximum)	 Temperature from -20°C (-4° F) to +50°C (122° F) Relative humidity from 15% to 90% (non condensing)
Run time	min 5 hours
Ingress Protection against solids, dust, and water intrusion	IP44 (configuration in use, meaning the device connected to its battery and sensor)
Measurement accuracy	 Volume measurements are based on FlowSense[®] sensor measurements and are expressed in mL for the BTPS (Body Temperature and Pressure, Saturated). The measurement accuracies of the parameters displayed on the screen are as follows: Vi (insufflated volume): ± 4.9% of the actual measured value under normal conditions of use Vt (tidal volume): ± 5.5% of the actual measured value under normal conditions of use Freq (ventilation frequency): ± 1 cycle per minute
	FlowSense® data: • Flow range: ± 250 slm (standard liters per minute) • Dead space: < 10 ml
	Note : Some types of BVM may affect the measurement accuracy due to their design (non-laminar outgoing airflow). A slight measurement deviation may be observed but has no impact on compliance with

regulatory requirements.

EOLIFE DEVICES ARE USED WORLDWIDE BY :

EMERGENCY MEDICAL SERVICES

USA/CANADA

Seattle King County Medic One Tualatin Valley Fire and Rescue (Greater Portland, Oregon) Rochester Ambulance Services, NY Bradford Fire and Rescue, Florida Boulder EMS Services, Colorado Los Angeles County EMS Cleveland Clinic EMS John Hopkins Howard County EMS Palo Alto EMS / Fire Department Huntington Beach Fire / EMS, CA South County Fire / EMS, WA Region Hospital EMS, MN Long Beach Fire Department, CA Saskatoon Fire Department

EUROPE

Fire Fighters of Paris (BSPP), France Fire Fighters Besançon, France Fire Fighters of Reims, France Ambulance l'Hom & Fils (Bleurville), France Ambulance Petain, France Ambulance of 56 (Baud), France Group Buttgen Ambulance (Mondelange), France North West Ambulance Service, UK East of England Ambulance Service, UK Fire Fighters of Bologna, Italy EMS of Geneva University Hospital, Switzerland

HOSPITAL

USA/CANADA

Rush University Hospital, Chicago Harborview Medical Center (University of Washington) UT Southwestern Medical Center, Dallas UF Health Jacksonville, Florida UC Davis Sacramento, CA Stanford's Children Hospital, CA Hennepin Medical Center, MN LA Harbour – UCLA Department of Emergency Medicine

HOSPITAL

EUROPE

University Hospital CHU (Besançon), France General Hospital Center CHG (Jura), France General Hospital Center CHG (Bar-le Duc), France University Hospital of Strasbourg, France Great Ormond Street Hospital (London), UK

RoW

Al Kuwait Hospital Sharjah, UAE

UNIVERSITY/COLLEGE/TRAINING ORG.

USA/CANADA

St Louis School of Medicine (Washington University) State of Virginia – EMS Education Department Airway ManagementEducation Center ('The Difficult Airway Course') University of Arizona College of Medicine, AZ The Lundquist Institute Saskatchewan Polytechnic, Saskatoon

EUROPE

University of Santiago de Compostela, Spain University of Madrid, Spain Higher Ambulance School (Lausanne), Switzerland Dublin University, Republic of Ireland Liverpool John Moores University, UK Edge Hill University, UK Christ The King University, UK York St John University, UK Greenwich University, UK Sheffield Hallam University, UK Buckinghamshire University, UK

RoW

Higher Colleges of Technology, UAE National Taiwan University, Taiwan



A0000029 EOlife / EOlife X[®] charger

ACCESSORIES

A0000117 EOlife[®] data transfer cable

EOlife

References

(1) Idris, A. H., Aramendi Ecenarro, E., Leroux, B., Jaureguibeitia, X., Yang, B. Y., Shaver, S., ... Wang, H. E. (2023). Bag-Valve-Mask Ventilation and Survival From Out-of-Hospital Cardiac Arrest: A Multicenter Study. Circulation, 148. DOI: 10.1161/CIRCULATIONAHA.123.065561. (2) J. FINNEY. PREVENT: The Paediatric EMS Ventilation Pilot Simulation Trial. Presented at : PAS 2024, Toronto, 05-05-2024.

(3) Raina M. Merchant, Alexis A. Topjian, Ashish R. Panchal, Adam Cheng, Khalid Aziz, Katherine M. Berg, Eric J. Lavonas, David J. Magid, «Part 1: Executive

14 Summary: 2020 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care», 2 pages, 2020. (4) D'Agostino, F., Agrò, F. E., Petrosino, P., Ferri, C., & Ristagno, G. (2024). Are instructors correctly gauging ventilation competence acquired by course attendees?. Resuscitation, 200, 110240. https://doi.org/10.1016/j.resuscitation.2024.110240





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www.archeon-medical.com

Legal information: EOlife is a class 1 medical device. Please read the instructions carefully before use.

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