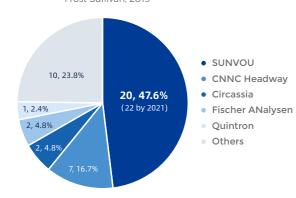
About Sunveu

SUNVOU is global leader in breath molecular diagnosis technology innovations, with the most granted patents, the most registered products, 400+ peer reviewed publications, 4,000+ devices in hospitals and 12 million+ tests from 2012 to 2021, founded by formal NASA, Honeywell, CISCO and Huawei scientists & engineers, joined by MIT and UC Berkeley graduates.

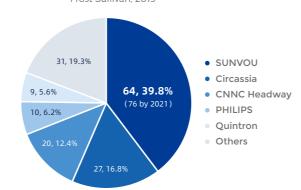
Most Registered Products Worldwide

Data Source: Breath Test Medical Devices Market Research, Frost Sullivan, 2019



Most Granted Patents Worldwide

Data Source: Breath Test Medical Devices Market Research, Frost Sullivan, 2019



70+ Granted Patents



400+ Peer Reviewed Publications

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ISO 13485 by TUV Rheinland since 2011







CE Marked since 2012









FN ISO

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www.sunvou.com



Nano Coulomb Breath Analyzer

for exhaled NO, CO & H2S detection

70+ Granted Patents, 4000+ Devices in Hospitals, 12 million+ Clinical Tests
400+ Peer-reviewed Publications, 8+ Guidelines & Consensus

1+2 innovations by Su∩v≎u



1+2 | Detection Options

Online + Offline & Tidal Age > 6 + 3-6 & < 3 / ICU



1+2 | Airway Sites

Large airway + Small airway & Upper airway Asthma + COPD & Allergic rhinitis, etc.



|+2 | Quality Controls

Qualified User+ Cylinder Gas & Self-calibration
User + Manufacturer & Device Auto-Check



1+2 | Exhaled Biomarkers

NO + H₂S & CO Type 2 + Non-Type 2 & Mixed







1+2 Products

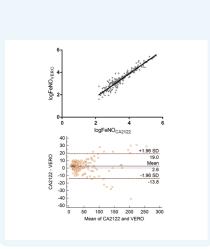
	The "1"	The "1+2"	The "Clinics and Home"		
Sensor Technology	Micro Amperometric Electrochemical Sensor	Nano Columbic Electrochemical Sensor			
Product Model	NIOX MINO / NIOX VERO	Sunvou-CA2122	Sunvou-TM1100		
Display	3.5 Inch LED Screen	Connect PC to Display	4.3 Inch LED Screen		
Power	Rechargeable Battery	AC Adapter	Rechargeable Battery		
NO Parameters	FeNO ₅₀	FeNO + CaNO & FnNO	FeNO ₅₀		
Detection Options	Online	Online + Offline & Tidal	Online		
Biomarkers	NO	NO + H₂S & CO	NO		
Quality Controls	Qualified User	Qualified User + Standard Gas & Self-calibration	Qualified User		
Detection Range	5-300 ppb	0-3000 ppb	5-300 ppb		
Linearity	R²≥0.998	R²≥0.99	R²≥ 0.99		
Endogenous Interference of NO	13 interfering gases tested, the response value of a few gases is greater than 50 ppb (ethanol interferes the most, which could invalidate or disable the sensor)	16 interfering gases tested, the interference of methyl mercaptan is 4 ppb, others <3 ppb (ethanoll has interference, which can reduce the test value instantaneously, use with caution)			

"Niox Vero" vs "Sunvou CA2122" Comparison

References: Lei W, Li F, Tang XM, et al. The comparision of two exhaled nitric oxide analyzers: NIOX VERO and SUNVOU-CA2122. J Breath Res. 2021. 15 026007.

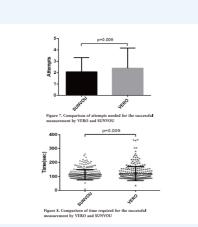
Correlated and Consistent Results

SUNVOU-CA2122 vs NIOX VERO, highly correlated and consistent results



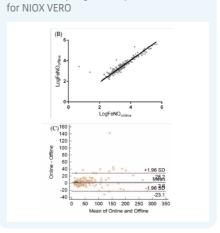
Fewer Attempts and Less Time

SUNVOU-CA2122 requires fewer attempts and less time than NIOX VERO for a successful measurement

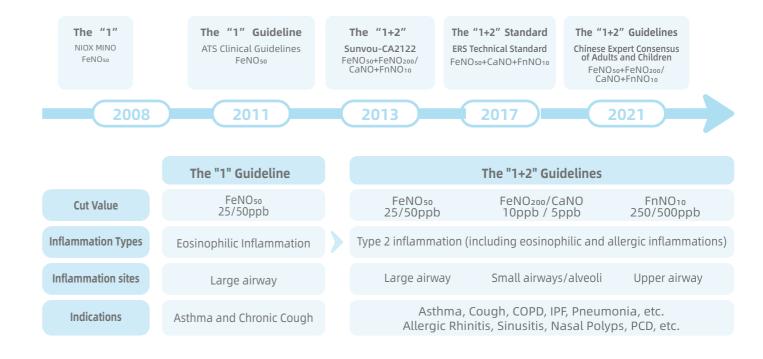


Online vs Offline

SSUNVOU-CA2122 Online vs Offline Results highly correlated and consistent results #Offline Sampling Techniques not available



1+2 | Standards and Guidelines



The "1" Guidelines: Dweik R, Boggs P, Erzurum S ,et al. An Official ATS Clinical Practice Guideline:Interpretation of Exhaled Nitric Oxide Levels (FENO) for Clinical Applications. Am J Respir Crit Care Med. 2011;184: 602-615.

The "1+2" Standards: Horváth I, Barnes PJ, Loukides S, et al. A European Respiratory Society technical standard: exhaled biomarkers in lung disease. Eur Respir J 2017; 49: 1600965.

The "1+2" Guidelines: Chinese Medical Education Association Chronic Airway Disease Professional Committee, China Asthma Alliance. Exhaled Nitric Oxide Detection and Chinese Expert Consensus on Its Application in Diagnosis and Treatment of Airway Diseases[J]. Chinese Medical Journal, 2021, 101(38):3092-3114. DOI: 10.3760/cma.j.cn112137-20210210-00408.

The "1+2" Guidelines: Asthma Collaborative Group of Respiratory Group, Pediatrics Branch of Chinese Medical Association. Expert consensus on detection and clinical application of exhaled nitric oxide in children (2021 edition) [J]. Chinese Journal of Practical Pediatrics, 2021, 36 (6): 417-423. DOI: 10.3760/cma.j.cn101070-20210127-00114.

1+2 | Service

