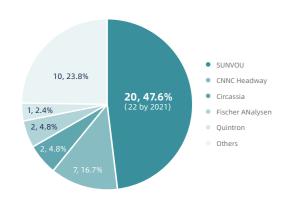
About Sunviu

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.

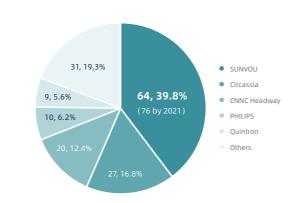
Most Registered Products Worldwide

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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CE Marked since 2012









Sunvou Medical Electronics Co., Ltd.

#8 Jingxian Road, Xinwu District, Wuxi, 214000 Jiangsu, P.R. China

www.sunvou.com



Nano Coulomb Breath Analyzer

for H₂, CH₄, H₂S & NO breath tests

H₂, CH₄ & H₂S Breath Tests: Diagnosis of Dysbiosis H₂S & NO Breath Tests: Diagnosis of Inflammations Routine Check-up on Gastrointestinal Conditions Recommended by Consensus and Guidelines



Product Specifications

Specification	Sunvou-CA4458	Quintron BreathTracker SC	Bedfont Gastro+	
Biomarkers	H ₂ , CH ₄ , H ₂ S, NO, CO ₂ , O ₂	H ₂ , CH ₄ , CO ₂	H ₂	
Detection Option	Online, Offline, Tidal	Offline	Online	
Sensor Technology	Nano Columbic electrochemical, semiconductor, infrared sensors	Chromatographic column, semiconductor detector	Electrochemical sensor	
Concentration Range/Accuracy	Range: 0-200 ppm for H ₂ , 0-75 ppm for CH ₄ , 0-3000ppb for NO/H ₂ S Accuracy: ±2ppm or 5% for H ₂ /CH ₄ , ±3ppb or 10% for NO/H ₂ S	Range: 2-150 ppm H ₂ , 2-75 ppm CH ₄ Accuracy: ±3 ppm or 5% of full scale for H ₂ /CH ₄	Range: 20-500ppm H₂ Accuracy: ≤±3ppm/10%	
Warm-up Time	10 minutes	8 hours	Not specified	
QC	Qualified user, Standard gas, Self-calibration Pre-calibration	Standard Gas Daily calibration before use	Standard gas calibration every 3 months	

Breath Test for Dysbiosis and Inflammations

Dysbiosis and inflammation could increase or inhibit NO, H₂S, H₂ and CH₄ production in microorganism cells, after which these gases would be exhaled and analyzed through breath test

Multiple factors: genetics, environment, diet, lifestyle, mental stress, inappropriate treatment



- Causing or progressing the severity of gastrointestinal
- Causing or progressing hepatobiliary, metabolic, immune , respiratory , cardiovascular and neurological disorders through imflammatory path

Causing gut dysbiosis and inflammation which further inducing lesions in gastrointestinal, metabolic, immune, respiratory system

Recommended by Clinical Guidelines and Technical Standards

1998 Nobel Prize in Medicine and Physiology for "NO as a signalling molecule"

2005 ATS/ERS Technical Standards for exhaled NO

2017 ERS Technical Standards for NO/VOC(H₂S)

2021 Chinese Expert Consensus of Adults and Children for exhaled NO

Digestive tract microbiome/end tidal breath test research

2009 Rome Consensus on H₂ breath test

2017/2019/2021 multidisciplinary consensus/guideline of H₂/CH₄/H₂S breath test in USA/North America/European

2022 multi-center digestive NO+H₂S+H₂+CH₄ braeth test research in Gastroentrology

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Clinical Applications

 Routine Check-up on Gastrointestinal Conditions-Diagnosis dysbiosis and inflammation, guide and evaluate antibacterial and anti-inflammatory treatment, and Monitor prognosis.

Dysbiosis can be divided into 3 gas-producing microorganism overgrowth

End tidal breath test	NO	H₂S	H ₂	CH ₄		
Fasting: test 1 time, 3 min to give results	Inflammation	Intestinal Sulfate-Reducing Bacteria overgrowth or colorectal carcinoma	Intestinal bacterial overgrowth	Intestinal methanogen overgrowth		
Substrate: test ≥ 4 times, 90 minutes to give results	N/A	Small intestinal Sulfate-Reducing Bacteria overgrowth (ISO)	Small intestinal bacterial overgrowth (SIBO)	Small intestinal methanogen overgrowth (IMO)		
Typical gastrointestinal symptoms	Abdominal pain	Severe diarrhea、Bloody stool	Bloating、Diarrhea	Constipation		
Indications and clinical departments	See Indications of digestive and non-digestive diseases below, involving digestion, endoscopy, neurogastrointestinal and motility, nutrition, paediatrics (formulated in Europe Guidelines), metabolic/endocrinology, immunological/rheumatology, psychiatric/neurological, brain/cardiology, allergic, dermatological/orthopedic, otorhinolaryngology/respiratory and physical examination, etc					

Indications









Reversal of Acid



Nausea

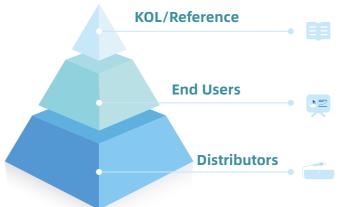






Pancreatitis Disease Neoplasms

Sunvou Services



Supported the Establishment of 8 National Guidelines and Consensus

Sponsored 200+ clinical rearserch projects, 400+ Peered Reviewed Publications. 2 National Breath Test OC Center

Serving 30,000+ Clinicians and Nurses

100+ Training courses, **200+** On-line reading articles 1000+ Literatures, 1000+ Annual conferences

Customer Survey Satisfaction >99% for 11 Consecutive Years

Installation/training/QC/upgrade 3000+ 24-hr online 1-to-1 service, and 200+ instant chat service groups

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