

Sleep Apnea Detection. Arrhythmia Detection.

All in One.

SPIDER SAS POLYGRAPH HOLTER

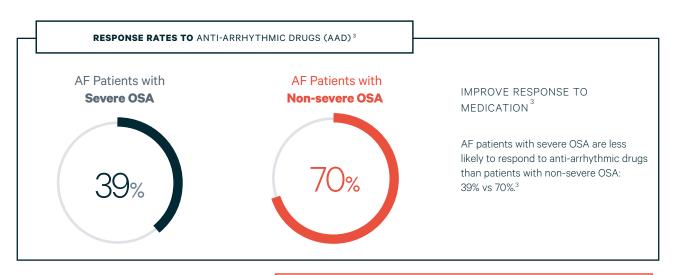


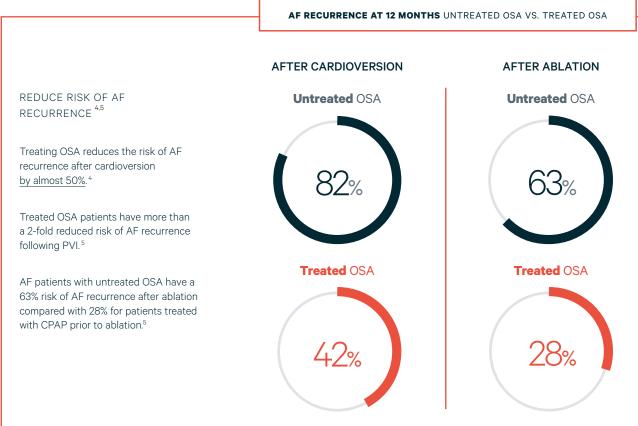
Sleep Apnea Diagnosis

A Key to Better Arrhythmia Management

- → There is a strong link between arrhythmia and sleep apnea.
- → 62% of AF patients present with OSA.1
- ightarrow A combined approach has been shown to significantly improve the effectiveness of AF treatment. ^{2,3,4,5}
- → All AF patients should be screened for OSA.⁶

TREATING OSA IMPROVES AF THERAPY SUCCESS





1 Device 2 Procedures

SLEEP APNEA DETECTION 7

- Respiratory Polygraph Cat III
- 1 or 2 nights recording

ARRHYTHMIA DETECTION

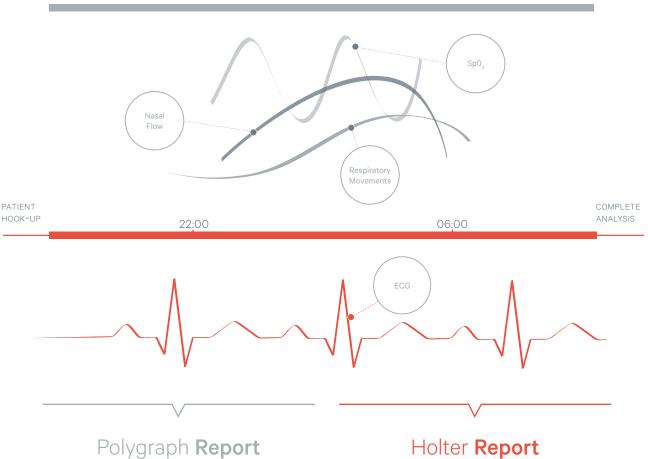
- Up to 48 hours recording
- 2 ECG channels



All in One

All of MicroPort CRM's know-how in Holter technology is built into Spider SAS.

24-HOUR HOLTER



Polygraph Report

Polygraph

Sleep Apnea Diagnosis in your hands

AHI

Apnea/Hypopnea Index

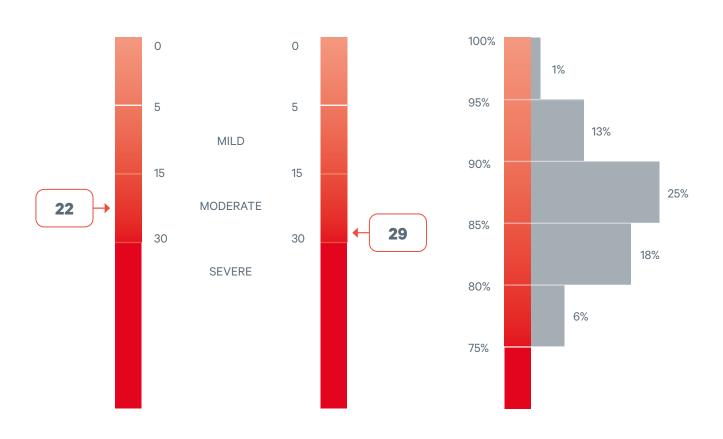
AHI is the mean number of Apneas and Hypopneas per hour.

ODI

Oxygen Desaturation Index

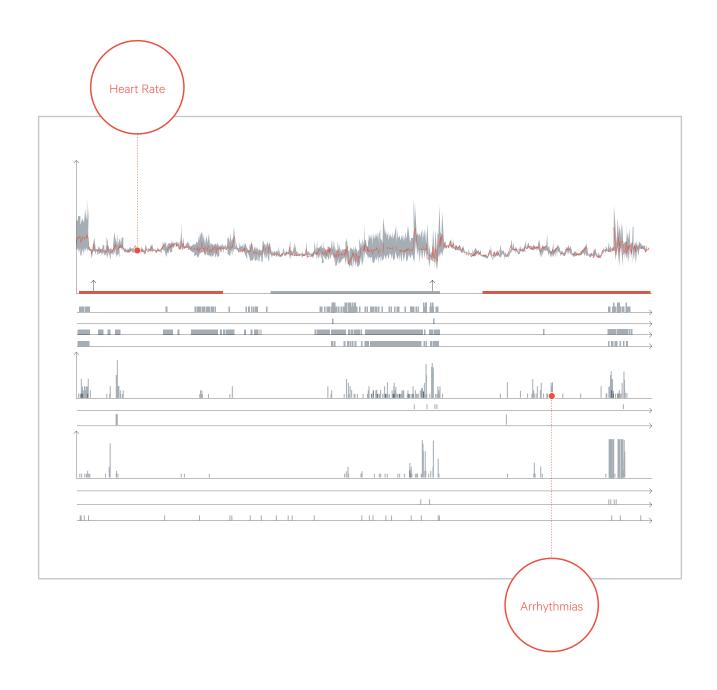
ODI is the mean number of desaturations per hour of sleep.

SpO₂ burden





Holter Inspired by excellence

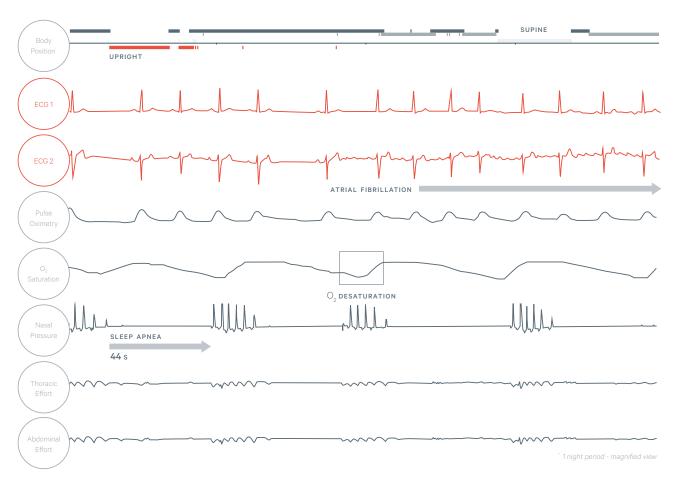


- Spider SAS benefits from **30 years** of experience in ECG recording tools.
- Built on the heritage of the Spiderview platform, a **gold standard** in data acquisition

Dual Display

A powerful diagnostic tool

Is sleep apnea the underlying trigger of my patient's AF?



Spider SAS Dual Display provides a synchronized view of ECG and respiratory signals.

DUAL ANALYSIS BENEFITS

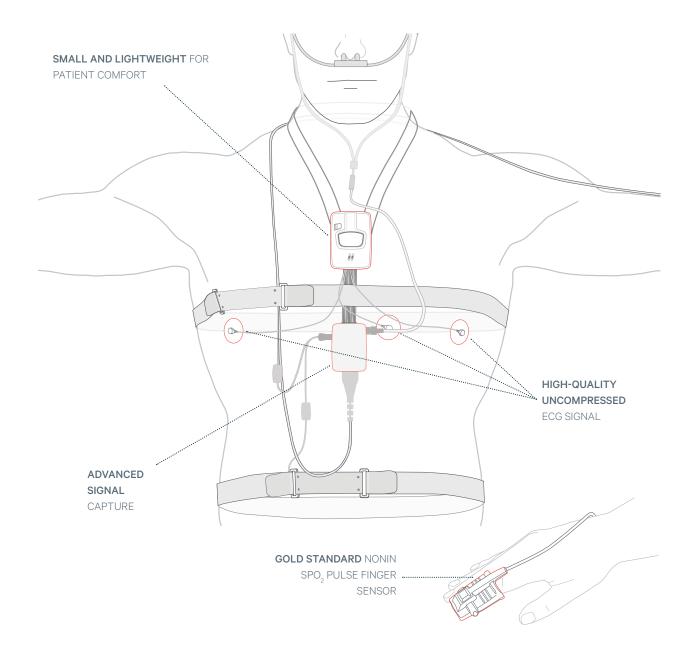
- ECG and respiratory signals combined and synchronized
- Fully customizable **analysis** interface
- Easily identify the underlying trigger: Apnea or Arrhythmia
- Identify oxygen desaturation during arrhythmia
- Gain insight into tolerance of apnea in parallel with cardiovascular events
- Help manage sleep apnea
- Provide the most tailored treatment path for patients

FULLY CUSTOMIZABLE REPORTS

- Automatic reports combined with a full suite of editing tools
- Two polygraph reports, one report per night
- 24h or 48h Holter Report

One Convenient Solution

State-of-the-art technology at your fingertips

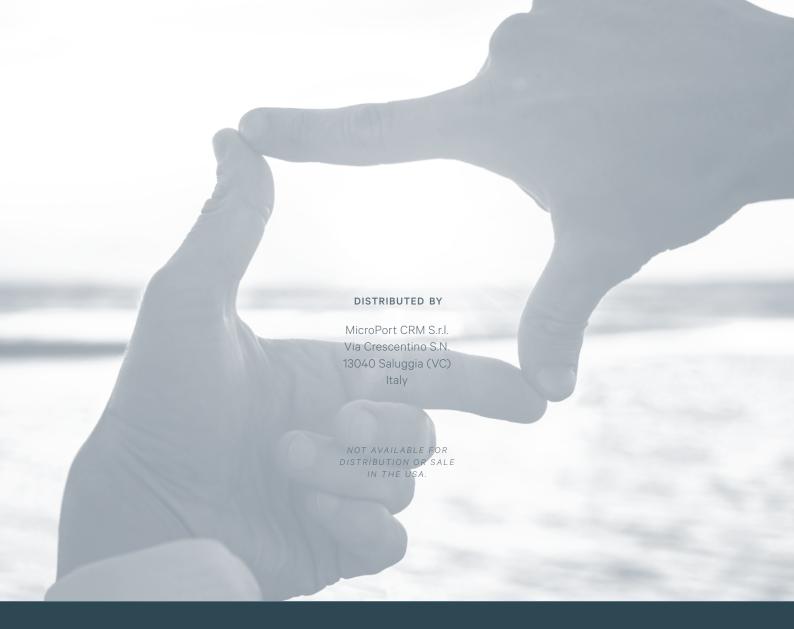


INTUITIVE HOOK UP

- Wireless bluetooth set up
- Step by step wizard for quick and easy hook-up
- Real-time signal for accurate positioning of sensors

COMPREHENSIVE REPORTING

- Simultaneous visualization of respiratory and arrhythmia events
- Automatic reports and full suite of editing tools
- AHI and SpO₂ analysis per night
- ECG Holter analysis Identification of 18 different types of arrhythmia





- Stevenson H I, Teichtahl H, Cunnington D et al. Prevalence of sleep disordered breathing in paroxysmal and persistent atrial fibrillation patients with normal left ventricular function. Eur Heart J 2008; 29:1662–1669.
- 2 Linz D, Woehrle H, Bitter T et al. The importance of sleep-disordered breathing in cardiovascular disease. Clin Res Cardiol 2015; 104:705–718
- 3. Monahan K, Brewster J, Wang L et al. Relation of the severity of obstructive sleep apnea in response to anti-arrhythmic drugs in patients with atrial fibrillation or atrial flutter. Am. J Cardiol. 2012 August 1:110(3):369–372
- 4. Gami S A, Pressman G, Caples M S et al. Association of atrial fibrillation and obstructive sleep apnea. Circulation 2004 ; 110:364–367
- 5. Kanagala R, Murali S N, Friedman A P et al. Obstructive sleep apnea and the recurrence of atrialfibrillation. Circulation 2003: 107:2589-2594
- Fein S A, Shvilkin A, Shah D et al. Treatment of obstructive sleep apnea reduces the risk of atrialfibrillation recurrence after catheter ablation. JACC 2013; 62 (4).
- 7. D. Feuerstein, L. Graindorge, A. Amblard et al. Real-time detection of sleep breathing disorders. Computing in Cardiology Conference (CinC), Nice 2015

Please always refer to the Instructions For Use (IFU) manual provided with each product for detailed information, warnings precautions and possible adverse side effects.