



The Innovation in Holter ECG





Sleep-Disordered Breathing Diagnosis for the Cardiologist



Actual size

SIMPLE: 1 VistaO₂ Recorder

1 Flow Sensor

1 Flow Sensor ECG Cable

5 ECG Electrodes

1 Cannula*

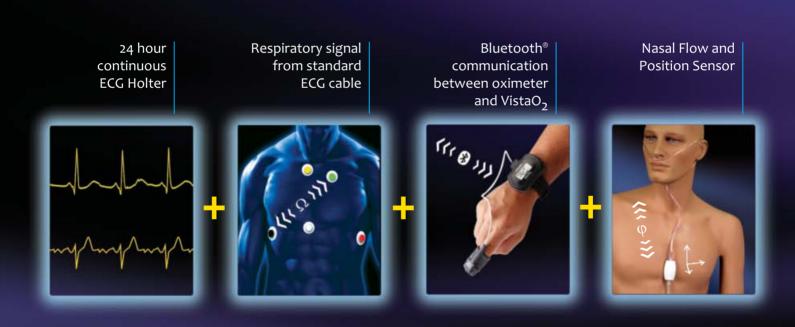
1 Wristwatch Oximeter *

COST EFFECTIVE: Single Holter ECG Procedure

The 1ST HOLTER POLYGRAPH combining ECG, OXIMETRY, RESPIRATORY EFFORT & NASAL FLOW



The simplicity of Holter ECG, the power of a Polygraph

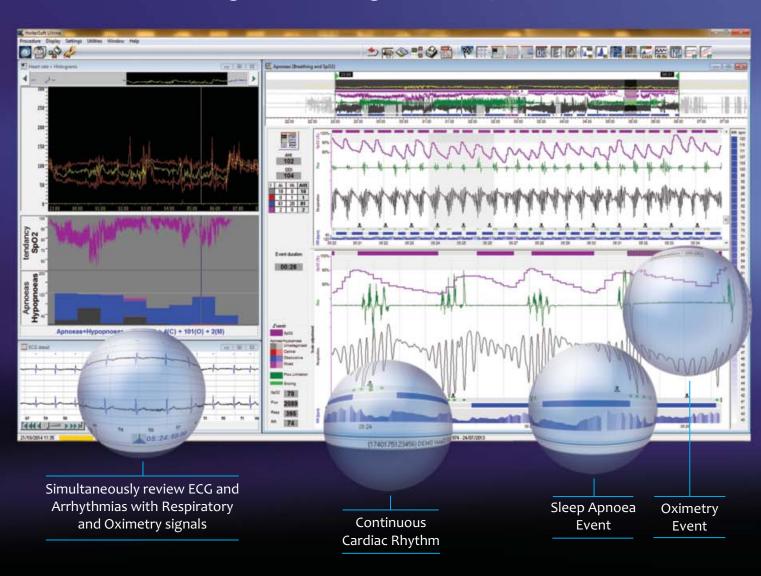


EXPANDED DETECTION of Sleep-Disordered Breathing for your cardiovascular patients

HOLTERSOFT

An SIMPLE & COMPREHENSIVE Clinical Tool

for Visualising and Analysing Cardio-Respiratory Activities



- Efficient AUTOMATIC analysis of Apnoea and Hypopnoea Events
- Indication of the TYPE OF APNOEA central, obstructive, mixed
- VISUALISATION of Cardiac Arrhythmias and Sleep Apnoea RELATIONSHIP
- CLEAR & COMPREHENSIVE Report with Validated Indexes



TIME TO DETECT SLEEP APNOEA IN CARDIOLOGY PATIENTS

SCH PREVALENCE (30%)

30% of Hypertensive patients have OSA*
37% of Heart Failure patients have OSA*
50% of cardioversion patients
are likely to have OSA*

- Hypertension
- Stroke
- Myocardial Ischemia and Infarction
- Impaired Conduction
- Heart Failure
- Atrial fibrillation
- Coronary arterial disease

RISK FACTORS

Consider all cardiovascular risks to better care for your patients

* Sleep Apnea and Cardiovascular Disease, an Expert Consensus Document American Heart Association, American College of Cardiology, etc., Journal of the American College of Cardiology 2008

Chouchou F, Poupard L, Philippe C, Court-Fortune I, Barthélémy JC, Roche F. Thoracic impedance, in association with oximetry, in a multi-modal ECG Holter system is useful for screening sleep disordered breathing. Int J Cardiol. 2013 Feb 10;163(1):100-2

Poupard L, Mathieu M, Goldman M, Chouchou F, Roche F. Multi-modal ECG Holter system for sleep-disordered breathing screening: A validation study. Sleep Breath. 2011 Jul 26.

VistaO,

Type of recorder Data storage Duration of monitoring for ECG + Polygraph Duration of monitoring ECG only (CF 512 MB) Number of channels Vertical resolution	Holter ECG & Polygraph 256/512 MB Compact Flash Card 30 hours (2 channels) with NiMH batteries (1000mAh) 10 days max (2 channels) 8 days max (3 channels) 2 or 3
Vertical resolution	2 or 3
Data capture range ECG accuracy in time ECG accuracy in voltage	10 bits 200Hz 12 mV (± 6 mV) ± 2.5 ms ± 6 μV
Measurement Sampling Rate Storage Rate	3 axis accelerometer 10Hz 1Hz
Sampling and Storing Rates Vertical Resolution	200Hz 10 bits
Snoring Detection Sampling Rate	Mathematically derived by Software Algorithm 200Hz
Derivation used Data capture range Sampling	Green – Black electrodes 2 to 30 resp/min 10Hz
Bluetooth® SpO ₂ sampling	Version 2.0 1Hz
Power supply Length (front) Overall length Width Depth LCD display Weight (batteries included) Storage / Operating temperature Storage / Operating humidity	2x 1.5v AAA (alkaline, lithium or NiMH) 85 mm 90 mm 54 mm 19 mm 160 x 104 pixels 108 g -20°C +45°C / +10°C +45°C 10%> 95% (no condensing) 500hPA> 1060hPA / 700hPA> 1060hPA
	ECG accuracy in time ECG accuracy in voltage Measurement Sampling Rate Storage Rate Sampling and Storing Rates Vertical Resolution Snoring Detection Sampling Rate Derivation used Data capture range Sampling Bluetooth® SpO2 sampling Power supply Length (front) Overall length Width Depth LCD display Weight (batteries included) Storage / Operating temperature

NONIN WristOx2[™] 3150

Bluetooth®	Version 2.0
Oxygen saturation range	0 –100%
SpO ₂ accuracy	70 −100% ± 2 digits
Sampling frequency	1Hz

Two 1.5 volt AAA alkaline batteries Power supply

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