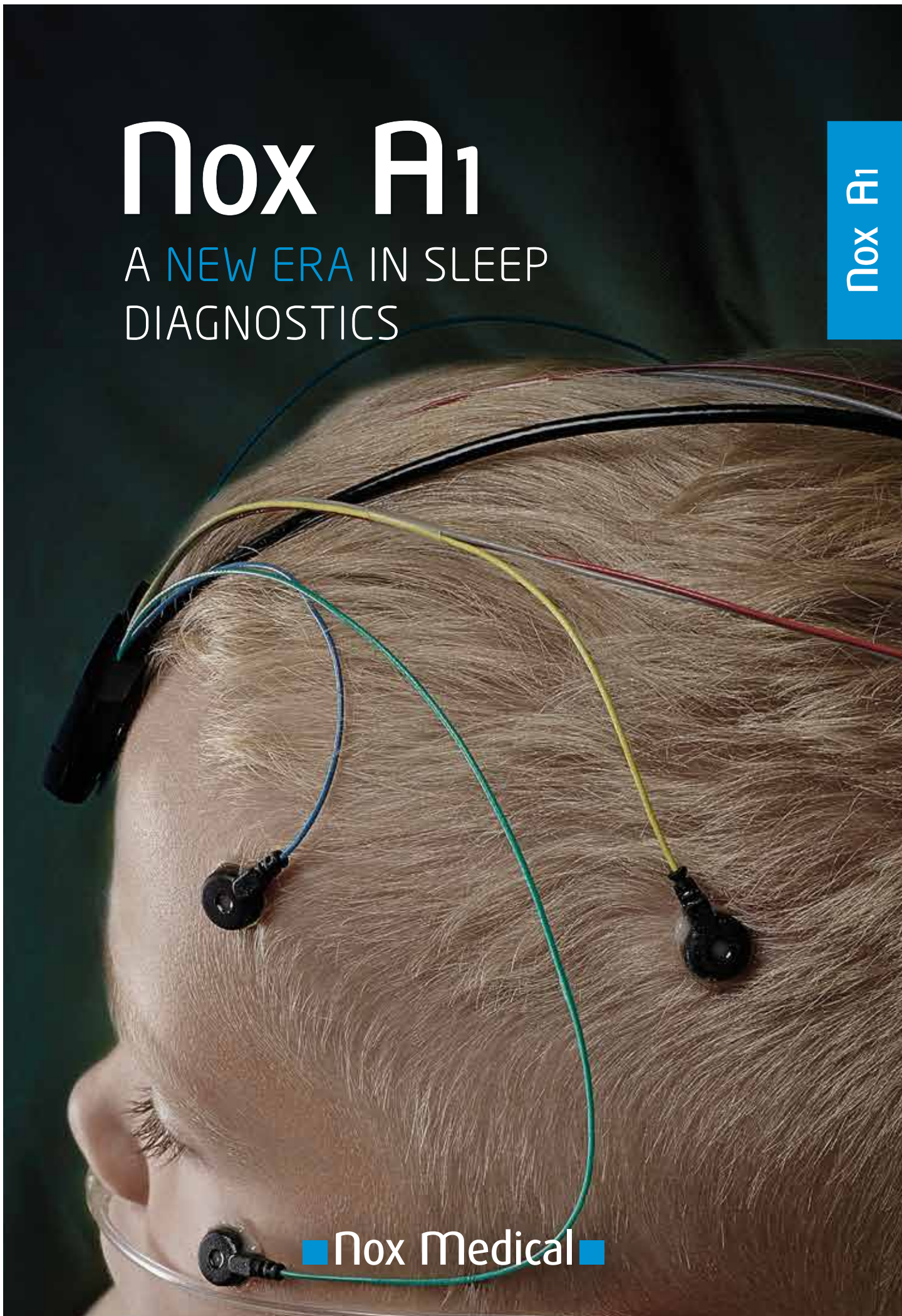


Nox A1

A NEW ERA IN SLEEP
DIAGNOSTICS

Nox A1

■ Nox Medical ■



NOX MEDICAL INTRODUCTION

Nox A1
Full PSG – AASM
compliant



With decades of clinical and engineering excellence behind, Nox Medical continues to deliver solutions to the world of sleep diagnostics which break the mold. Through **innovative thinking**, knowledge, experience, and collaboration from world leading physicians, Nox Medical, has identified common issues with last generation's technology and now introduces a system that is **ready for the future** and opens a new era in sleep diagnostics.

The new Nox A1 PSG system is a **full, portable polysomnography system** that greatly simplifies the task of performing a sleep study while delivering more secure and precise measurements than ever before. Innovations in a number of key areas such as **ergonomics, robustness, scalability, flexibility and new technology** are combined to create the next generation of PSG systems.

Specific features such as very small physical size make the system **ideal for ambulatory and pediatric measurements**. The Nox A1's optimized design of cable leads **minimize the effort needed for hookup, cleaning and service**, while minimizing electrode pull. The use of intelligent re-referencing **secures study integrity throughout the night**. Through wireless communications with sensors and auxiliary devices the possibilities for **endless interfaces and configurations** are opened while giving the **patient freedom to move around**. Flexibility is guaranteed through **full remote BioCal, impedance check, configuration, and signal monitoring over tablets**. The sophistication of the system is completed with **audio recording capabilities** and **256 kHz simultaneous sampling rate, allowing for high performance re-referencing**.

Combining the Nox A1 with the powerful Noxturnal software unleashes the full potential of the solution. Offering automatic analysis, scoring and reporting, Noxturnal greatly simplifies the task of preparing a sleep study for the correct interpretation by physicians.



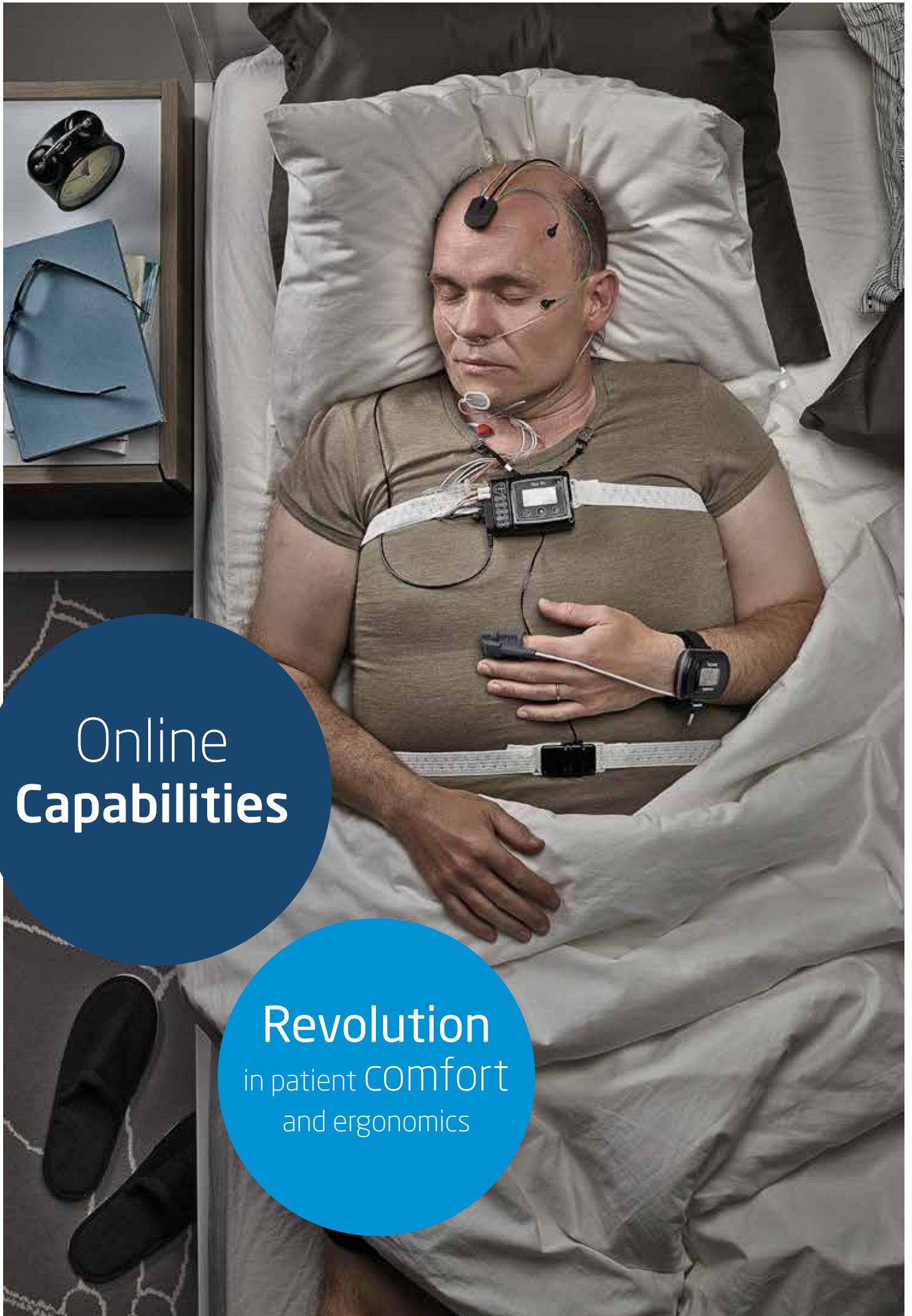
UNMATCHED SIMPLICITY IN PSG SETUP

- Small and lightweight PSG recorder
- Easy setup enabling home sleep testing
- Minimum number of cables and straps
- Highly improved ergonomics
- Time and effort saving
- Integrated ambient light sensor supports scoring



EXCEPTIONAL SIGNAL QUALITY

- Continuous impedance control
- Automatic reference adjustment
- Ensuring signal synchrony
- High frequency sampling at 256 kHz for advanced noise reduction and anti-aliasing
- Power line noise effect elimination through wireless technology
- 32 bit signal processing



Online
Capabilities

Revolution
in patient comfort
and ergonomics

THE NEXT GENERATION OF PSG SYSTEMS



ADVANCED TECHNOLOGY

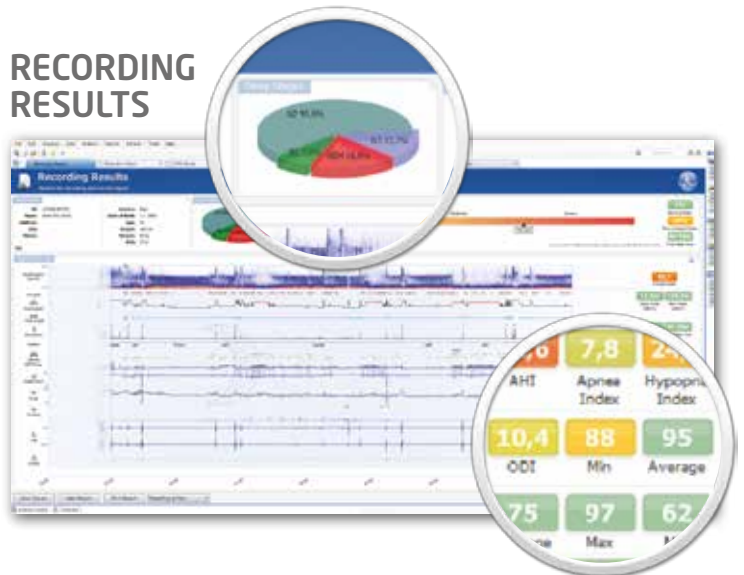
- 10 unipolar inputs for EOG and EEG
- 3 unipolar EMG Sub-mental inputs
- 4 configurable bipolar inputs (Thermistor, EKG, EMG, multi-channel GSR)
- Sound from built in microphone
- Pressure from Nasal and Mask cannula
- 3-D Acceleration from built in acceleration sensor
- Two channels of respiratory effort from RIP belts circulating the Thorax and Abdomen
- Pulse, SpO2 and Plethysmography from a wireless Bluetooth® oximetry
- Bluetooth interface with various external devices
- Light detector
- Disposable or rechargeable battery (AA)



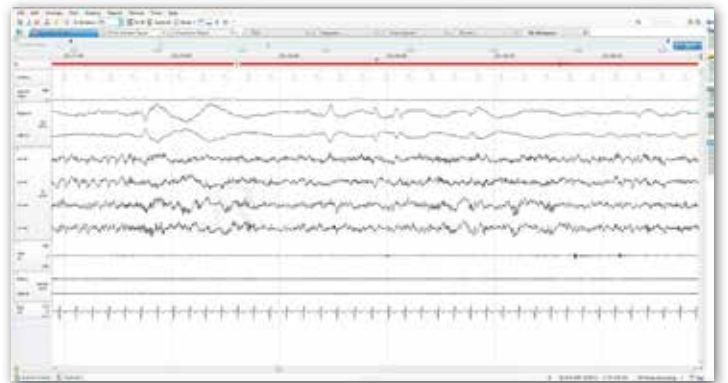
POWERFUL AND USER FRIENDLY SOFTWARE

- Extended AASM standard PSG recording
- Immediate recording results with automatic analysis
- Calibrated RIP technology
- Flow Volume Loops
- New Pleth Waveform Analysis
- Customizable workspace layout
- Centralized settings for multi-user environments
- Microsoft Word™ like customizable reports
- Easy to create new statistical fields for custom reports
- Single click scoring
- Audio Playback

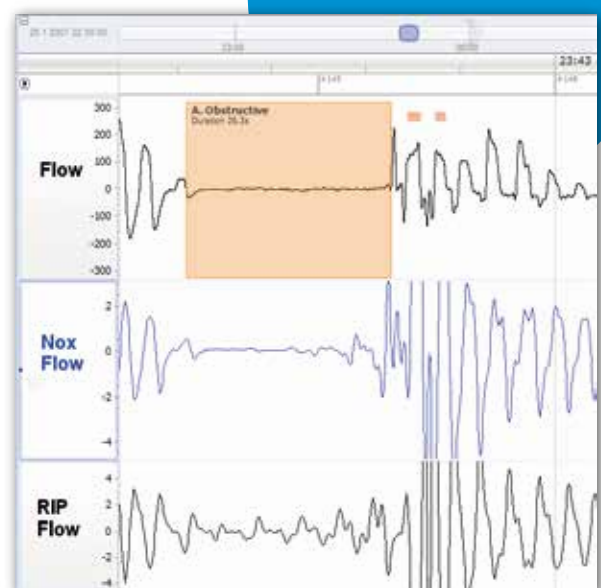
RECORDING RESULTS



SIGNAL SHEET



Calibrated
RIP





TABLET APPLICATION

Connects wirelessly

Enables setting
up the recorder

Perform biocalibration
and impedance checks
next to patient

Review signal quality
of sensors

View live traces

Runs on the Android™
platform



Audio
Recording and
playback

Small
Physical
Size



Nox A1

TECHNICAL SPECIFICATIONS

DEVICE

Signal Specifications:

13x Unipolar Channels	Automated Referencing Touch proof connector DIN 42-802, ±8mV input range AC < 1 µVrms noise, 90 Hz BW, 256 kHz Sampling rate
4x Bipolar Channels	Key hole connector, ±350mV input range DC or AC < 1 µVrms noise, 90 Hz BW, 256 kHz Sampling rate
2x RIP	Thorax and Abdomen Respiratory Inductance Plethysmography
1x Flow/Pressure signal	>60 cmH2O input pressure range, DC-90 Hz, <1 mmH2O noise
1x Sound signals	8kHz sampling, Internal 3.6 kHz bandwidth, 24-bit ADC
3x Activity/Position signals	Internal 3 axis, ±2 g
1x Wireless interface	Bluetooth V2.0 wireless interface for external devices
1x Ambient Light	1 Hz

Performance Specifications:

Storage capacity	1 GB
Recording time	Up to 9 hour including true audio recording
PC communications	USB 2.0 hi-speed

Physical Specifications:

Power source	One 1.5V AA battery during recording; Host PC USB during data download
Battery type	Nickel-metal hydride rechargeable (NiMH), Lithium
Power source (online module)	Input 100-240V~ 50-60Hz 0.4A Output 12V 1.0A 12W Max
Device dimension	82 mm W x 63 mm H x 21 mm D (3.23 in W x 2.48 in H x 0.83 in D)
Weight	89 grams (0.19 pounds)
Display	Type OLED-Dimensions 19 x 35 mm (0.75 x 1.38 in), resolution 128 x 64 dots
Battery cover	Tamper proof and locked
USB 2.0 connection	USB-Mini type B

SOFTWARE

Minimum PC Requirements	Windows XP Home, Windows XP Professional SP 2, Windows Vista, 32 and 64 bit, Windows 7, 32 and 64 bit, Windows 8, 32 and 64 bit Processor: X86 Intel based or AMD 1.2 GHz 512MB RAM, 1 GB of free disk space Resolution: 1024 x 768 or higher
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