

# SPIDER SAS POLYGRAPH HOLTER

Polygraph III

MONITORED PARAMETERS

NASAL FLOW

RESPIRATORY EFFORT

TWO-CHANNEL ECG

OXYGEN SATURATION



technical specifications  
apnea & arrhythmia detection



## SPIDER SAS POLYGRAPH HOLTER

### Sleep Apnea recorder with two-channel ECG

- Up to 32 hours: 1 night polygraphy with ECG + 24H Holter with a second night of polygraphy
- Type III recorder:  $\geq 4$  channels (Airflow, and/or Effort, ECG/HR, SpO<sub>2</sub>) - according to AASM standards Ferber et al. Sleep 1994
- Event button activated by patient: symptomatic situations (i.e. wake-up, falling asleep, symptoms...)

#### Recorded channels

- ECG 256 Hz
- O<sub>2</sub> Saturation 3 Hz
- Plethysmography 75 Hz
- Nasal pressure 256 Hz
- Respiration effort 256 Hz
- 3D Accelerometer 64 Hz
- Patient marker

**Input dynamics:**  $\pm 16$  mV

**Frequency response:** 0.05 - 80 Hz

**Common-mode rejection:** 94 dB

**Power:** 1 x AAA battery

- Alkaline = 1 night polygraphy
- Lithium = 32 H

**Communication:** Bluetooth Low Energy  
Dedicated  $\mu$ SD Card

#### Bluetooth Low Energy interface

- Bled112 Bluetooth Smart Dongle

#### ECG patient cables

- 3 leads / 2 channels
- Length: 37 & 126 cm

**Weight:** 50 g w/o battery

#### Dimensions and weight (mm/g)

- Spider SAS 75 x 50 x 19.5 / 50 g
- Physio Hub 42 x 58 x 18 / 42 g

## HOOKUP RS SOFTWARE

- Initialization of Spider SAS and real-time quality check of all recorded signals
- Allows real-time check of signal quality from all sensors

#### Patient information

- Last Name, First Name, PID
- Previous recorded patient

#### Technical settings

- Time and Date
- Sleep Time Period
- Erasing previous recorded data

#### Real-time signals

- 2 ECGs
- Nasal pressure
- Thoracic effort
- Oxygen saturation
- Plethysmography
- Body position
- ECG impedance level

#### Technical information

- Battery voltage
- $\mu$ SD card memory size
- Connected accelerometer
- Physio Hub connection
- Firmware version
- Serial Number

## SOFTWARE COMPATIBILITY

- Spider SAS is compatible with HookUp RS and Synescope 3.30 or higher. SAS option is required for analyzing respiratory, body position and SpO<sub>2</sub> data
- SAS Option is compatible with Synescope 3.30 or higher
- HookUp RS and Synescope 3.30 or higher run on Windows<sup>1</sup> and Apple<sup>2</sup> operating systems
- For Windows: Windows<sup>1</sup> 7 SP1 & 8.10, Windows<sup>1</sup> 10 32/64b
- For Apple<sup>2</sup>: OS X<sup>2</sup>, VMware<sup>3</sup> and a license of one of above Windows<sup>1</sup> OS

## MINIMUM HW/SW REQUIREMENTS

#### Operating systems

- Windows<sup>1</sup> 7 SP1, MAC OS X<sup>2</sup> with VMware<sup>3</sup>
- Memory RAM: 4 GB
- 4 free USB ports or powered USB Hub
- CD Rom reader
- PCL5e language and color printers

#### Screen size

- Format 4/3 - 17 or 19"
- Format 16/9 - 20" or 22"
- Resolution: 1080p or Full HD or WSXGA 1280 x 1024\* or more

\*Minimum required

1. A Microsoft Corporation trademark. 2. An Apple Inc trademark. 3. A VMware Inc trademark.

Refer to user's manual furnished with the device for intended uses and relevant warnings, precautions, side effects, and contraindications. Refer to user's manual furnished with the device for complete instructions for use.

Not available for distribution or sale in the USA.