

Sonata

Polysomnography System



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Even we don't know exactly what the future will bring, but Sonata makes you as well-prepared as you can be for the future of **polysomnography**. Your requirements specify and motivate Sonata.

Sonata is a **modern, attractive, state-of-the-art polysomnography system, based on AASM criteria**, with the greatest possible flexibility and an extensive range of options.

Regardless of the examination model required for your patients, Sonata provides you with versatile solutions for a variety of applications. A high degree of patient comfort, reliable diagnosis and effective handling of the hardware and software are its primary characteristics.

Features

- 65 channels
- Modern, attractive design
- Flexibility in application, sensor system, and handling
- Integrated WiFi
- Possible to switch between WiFi and cable during the measurement without interruption
- Integrated differential pressure measurement
- Standardized sensor connections
- Battery status displayed on control panel
- Sampling rate up to 1kHz and 24-bit resolution
- 4x ExG single-ended or 2x ExG differentiated (freely configurable)
- Possible to use 2 actimeters
- Respiratory effort can be recorded via pressure pad and/or induction technology
- Report is freely configurable
- Sensor system connections are clearly marked to ensure they can be used without confusion
- Suitable for measuring children
- Battery can be replaced
- Integrated light sensor
- Tablet function (Sleep Xpert App), optional
- Continuous impedance measurement
- Systolic blood pressure trend



DPC – Digital Prisma Control

During operation, the sleep therapy devices of Löwenstein Medical's prismaLINE record and calculate a variety of therapy-related parameters, including respiratory flow, pressure, mask leakage, and tidal volume/minute volume.

These parameters can be transmitted digitally and synchronously via DPC to an online measurement by Sonata to facilitate the best possible titration for your patients. Status changes, such as a switch in pressure, for example, are likewise stored in the Sonata measurement in the form of comments.



Sleep Xpert App

Sleep Xpert App can be used to perform all the key processes of an online PSG directly at the patient's bed - these include impedance measurement, biosignal calibration, signal monitoring, and input of comments, for example.

The corresponding patient room can be selected and controlled in the app on a mobile device, e.g. a tablet.



Audio/video integration

There are two different high-quality network cameras for monitoring patients at night. Both have infrared illumination and an intercom.

Swivel/tilt/zoom camera

- Video: 30x optical zoom with autofocus. Swivel, tilt, and zoom are all silent and smooth. Resolution 1280 x 720 HDTV. Video streaming in H.264. Automatic switching between day and night.
- Audio: XLR mono input with integrated phantom power for microphone.

Compact camera

- Fixed focal length with 110° horizontal and 61° vertical field of view. Possible to set up different viewing ranges. Integrated infrared illumination, microphone and loudspeaker. Resolution 1920x1080 HDTV.
- Video streaming in H.264. Automatic switching between day and night.



Technical features

Available channels

- 6x EEG (standard), up to a total of 10x EEG possible
- 2x EOG
- 3x EMG chin
- 6x ECG
- 2x EMG leg
- 4x ExG (freely configurable)
- 2x actimeter
- Body position (5 positions)
- Light
- Respiratory flow: Nasal cannula and/or thermistor
- Therapy pressure
- 2x thorax (pressure pads and/or RIP)
- 2x abdomen (pressure pads and/or RIP)
- 2x snoring (diagnostic nasal cannula and/or microphone)
- SpO₂, pulse rate, plethysmogram, PTT
- Calculation of respiratory and heart rates
- Systolic blood pressure trend
- Calculation of thorax/abdomen phase shift (paradoxical breathing)

External signals

- DPC – Digital Prisma Control. Digital feed of 13 channels of the prismaLINE devices and also status changes
- Analog signal feed of up to 8 channels, e.g. tCCO₂ etc.

General

Dimensions:	30 mm x 77 mm x 135 mm (H x W x L)
Weight:	230 g including rechargeable battery
Storage medium:	Internal memory
Error display:	Light-emitting diode on top of device
Power supply:	Rechargeable Li-ion battery with integrated charging electronics
Data transmission:	USB port with data transmission cable or wireless LAN port
Sampling rate:	1 Hz to 1000 Hz at 24-bit resolution
Recording time:	Up to 24 hours (depending on recording configuration)
Maintenance and servicing:	No maintenance or servicing required
Software:	MSV and Sleep Xpert App
Audio/video:	High-quality network camera with swivel/tilt/zoom technology and integrated intercom

The service we offer you

- No software licensing required
- Lifelong free software updates for our analysis and evaluation software
- Telephone and online support available - during those important evening hours, too
- Extensive stocks at our headquarters in Bad Ems, so next-day shipping generally available
- Comprehensive coverage for urgent service deployment

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