

Sonata



Polysomnography System



Sonata



Modern. Diverse. Future-proof.

Even we don't know exactly what the future will bring, but Sonata will prepare you as well as 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

- Up to 76 channels
- Modern, attractive design
- Flexibility in application, sensor system, and handling
- Integrated WiFi
- Allows switching between WiFi and cable during 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
- Additional neuromodule 10-20 available
- 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
- GDT and HL7 connection, optional



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.

Neuromodule 10-20

The Sonata Neuromodule 10-20 meets the requirements of the internationally standardized 10-20 EEG system. Despite its 21 EEG connections, the neuromodule is small, handy and can be applied directly to the patient. Sonata makes it a breeze to use both neuromodules (standard, 10-20) flexibly.



Löwenstein Medical Patient Manager

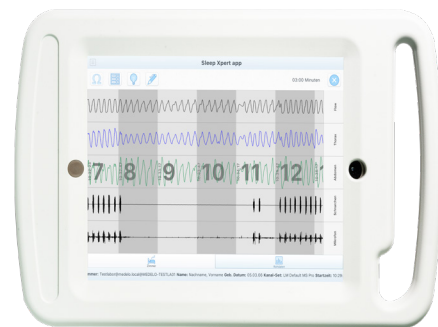
The LM PM offers you a wide range of functions to help you organize your processes in the sleep laboratory more effectively. This starts with the recording of patient data – whether by hand, by reading in the insurance card or by adopting the master data via an HL7 or GDT interface. This is then followed by the scheduling of appointments and the assignment of sleep lab places.

Master data and diagnosis data, as well as documents, can be imported and exported to and from a variety of software products; Sonata can also be used to start polysomnography recordings. Automatic drafting of documents in line with your template is another integrated feature.

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 three different high-quality network cameras for monitoring patients at night. All models have an infrared radiator, microphone, loudspeaker and automatic day/night switching.

Pan-tilt camera models offer:

- Optical zoom with autofocus.
- Silent, smooth panning and tilting
- Wall or ceiling mounting

The compact camera model features:

- Fixed focal length with 110° horizontal and 61° vertical field of view.
- Fixed focal length





Technical features

Available channels

- 6x EEG (standard), up to a total of 10x EEG possible
- 2x EOG
- 21x EEG (Neuromodule 10-20)
- 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 as well as 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:	Sleep Xpert Lab 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 is usually possible
- Comprehensive coverage for urgent service deployment, generally within 24 hours

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Made in
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 **With people in mind**

