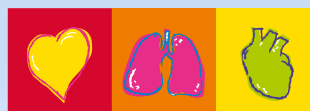


SPIROVIT SP-1 G2

Portable spirometer with ultrasonic technology
Innovation for optimal lung care



SCHILLER
The Art of Diagnostics

SPIROVIT SP-1 G2

SCHILLER's SPIROVIT SP-1 G2 is the all-in-one solution in lung function testing – portable/ desktop spirometry for large and small healthcare providers.

- Ultrasound technology: calibration-free, no warm up time, no moving parts.
- Real-time information on colour LCD



ULTRASOUND TECHNOLOGY

Thanks to GANSHORN's ultrasound technology, recordings are highly accurate and the sensor is maintenance- and calibration-free. Furthermore, the system is independent of gas composition, air pressure, temperature and humidity. The disposable ScoutTubes ensure maximum hygiene and patient safety.

DISPOSABLE AND SUSTAINABLE

To ensure a sustainable product, SCHILLER compensates the CO₂ emitted during production, packaging, shipment and disposal of the ScoutTubes.



REAL-TIME DISPLAY

The large colour LCD helps to ensure that the patient achieves a good result and the measurement is valid: information is displayed in real time, the spirometer provides feedback on the procedure's quality after each trial and an incentive screen is available for trials with children.



Incentive screen for paediatric spirometry

WIDE RANGE OF MEASUREMENTS INCLUDING INTERPRETATION

The spirometer offers FVC, SVC and MVV. Moreover, Pre and Post tests are possible. The SPIROVIT SP-1 G2 automatically interprets the results and provides information on a possible diagnosis. Results can be printed on site, using the integrated thermal printer.

AVAILABLE WITH TROLLEY

The SPIROVIT SP-1 G2 offers the major advantage of being able to perform spirometry wherever you are, without a PC. For added convenience, the system is also available with a trolley, which includes a bin for consumables such as ScoutTubes.

FVC, SVC, MVV, Pre/Post testing, wide range of predicted normal values

Export spirometry recordings from internal memory as PDF and store on external media

Colour LCD: information displayed in real time

High-resolution thermal printer



Ultrasonic sensor: calibration-free and maintenance-free

Highly hygienic sealed keyboard keeping dust, dirt and liquids out

Compliance with 2019 ATS/ERS Guidelines

Disposable ScoutTubes for maximum hygiene and patient safety





Technical data

SPIROVIT SP-1 G2

System

Device

Dimensions: 285 x 189 x 61 mm (l/w/h)

Weight: 1.94 kg including paper

Display

Colour LCD

LCD resolution: 800*480 dots

LCD size: 5"

Printer

Internal high-resolution thermal printer, 8 dots/mm

Thermal paper format: roll, 80 mm wide

Keyboard

PU-coated silicone

Electrical data

Power: Mains or battery operation, built-in battery charger

Power supply: 100 to 240 VAC, 50 to 60 Hz, max. 0.75 A (115 V) to 0.4 A (230 V)

Power consumption: max. 30 Watt

Battery: Rechargeable Pb gel battery, 12 V, 2.0 Ah

Battery capacity: 4 hours normal use (without printout)

Interfaces

1x USB interface for SpiroScout SP plus, 1x USB interface for PDF export and software update

Recording functions

Measurements: FVC, SVC, MVV; Pre/Post tests

Display: Real-time display of information, quality check, on-screen review, incentive screen for children

Standards spirometry: GRS 2015, ATS/ERS 2005/2019 update, ISO 26782, GLI 2012

Measurement standards: American/ITS, International, GOLD, NICE, NLHEP

Memory

Memory for at least 100 tests in PDF format

Automatic PDF export to USB stick

Environmental conditions device

Environmental conditions

Temperature:

- Operation: +15 to +35 °C
- Transport: -10 to +50 °C
- Storage: +5 to +50 °C

Relative humidity:

- Operation: 30 to 80 %, non-condensing
- Transport/storage: 10 to 95 %, non-condensing

Pressure:

- Operation: 800 to 1060 hPa
- Transport/storage: 500 to 1060 hPa

Sensor

SpiroScout SP plus

Measurement method: Ultrasound technology

Mouthpiece: ScoutTube: single-patient use, disposable, ergonomically shaped, standard cone 22 mm

Power supply: via USB

Measurement range:

- Flow: 0 to ± 18 l/s
- Volume: no limit

Measurement accuracy:

- Flow: ± 2 % or 50 ml/s (for flows between 0 and 16 ml/s)
- Volume: ± 2 % or 50 ml

Temperature drift: max. ± 2 %

Respiratory resistance: 0.002 kPa/l/s = approx. 0.02 cmH₂ O/l/s

Standards compliance: ATS, NIOSH

Environmental conditions sensor

The environmental conditions for the sensor depend on the SP-1 G2 and are determined by it (see environmental conditions for the SP-1 G2 above)

Temperature:

- Operation: +15 to +35 °C
- Transport/storage: -20 to +50 °C

Relative humidity:

- Operation: 10 to 95 %, non-condensing
- Transport/storage: 10 to 95 %, non-condensing

Pressure:

- Operation: 700 to 1060 hPa
- Transport/storage: 600 to 1060 hPa

Options

Hardware

Trolley: for SPIROVIT SP-1 G2

Holding bracket: for SpiroScout SP plus, to fit trolley

Standards

Certification:

Protection class according to IEC 60601-1: I

Applied part according to IEC 60601-1: BF

Classification according to Directive 93/42/EEC: IIa

Notified body: CE0123

Warranty

Our general terms and conditions are available on www.schiller.ch



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Device availability in your market is subject to regulatory approval.

