SPIRODOC® - SPIROMETER AND OXIMETER

Internal software and CD manual: GB, FR, IT, ES, DE, PT (only manual)

SPIROMETER + OXIMETER + 3D ACCELEROMETER
IN ONE UNIT

90

93

103

5.21

4.84

FEV1% 84.7

Easy touch-screen display

• 33532 SPIRODOC SPIROMETER + SOFTWARE WINSPIRO PRO - bluetooth

33533 SPIRODOC OXIMETER + SOFTWARE WINSPIRO PRO

33534 SPIRODOC SPIROMETER + OXIMETER + SOFTWARE - bluetooth

One touch laboratory for respiratory analysis suitable for

professional and personal use.

Complete spirometer ATS/ERS compliant

Specialist-level analysis, screening and Home-care monitoring. It has been developed with various operation modes:

"advanced" parameters for the specialist, "reduced" set of parameters for screening as well as a "simplified" version for Home-care operation. FVC, VC, IVC, MVV, PRE-POST. Precise spirometry interpretation including post bronchodilator. All tests are automatically memorized. Automatic BTPS conversion. Memory capacity: 10.000 tests. Wide selection of predicted values. Intelligent pulse oximeter with on-screen results.

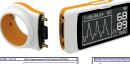
Simple, clear SpO, and Pulse Rate measurements with plethysmographic curve. During the single six-minute walk test (6 MWT), Spirodoc® estimates the level of oxygen therapy required by the patient. Spirodoc® carries out sleep desaturation studies and memorizes events as well as body position.

3D Accelerometer with motion analysis

Spirodoc® is the first 3D Oximeter® incorporating a triaxial motion sensor to correlate the saturation level (%SpO₂) with physical activity (walk counter, movement analysis and VMU).

Home-care symptoms diary

Fast on-screen symptoms entry. Touch screen with settable questions and automatic answer recording for homecare patient use (eDiary). High performance PC software for spirometry and oximetry All tests memorized in Spirodoc® are automatically downloaded into WinspiroPRO and a patient data card is created with a patient of the spirometry structure. Winspiro PRO can assist be preview of the spirometry curve. WinspiroPRO can easily be connected to a database, EPR, hospital or occupational health system. This software also gives trend graphs of any parameter. All stored tests and curves of every patient can be reviewed on a single page



Three phase report of 6 minutes walk test:

baseline, walk, recovery

33534







with desaturation analysis

and the results, including oximetry tests, can be compared. Supplied with reusable turbine.

Multilanguage software: GB, FR, IT, ES, DE, PT, PL, NL SE, CZ, LV, TR, RU, CN, JP.

Central unit

Display: LCD backlit touch screen display 128x64 pixels Power supply: Lithium ion 3.7 V, 1100 mA rechargeable battery with 50 hours measurement back up Accelerometer: Triaxial ±2 g, 400 Hz sampling Dimension and weight: central unit 101x48x16 mm, 99 g removable turbine head: 46x47x24 mm, 17 g Spirometry

Flow sensor: Bi-directional digital turbine

Flow range: ±16 L/s

Volume accuracy: ±3% or 50 mL, whichever is greater Flow accuracy: ±5% or 200 mL, whichever is greater Dynamic resistance at 12 L/s: <0.5 cm H₂O/L/s

TECHNICAL SPECIFICATIONS

Temperature sensor: semiconductor (0-45°C) Spirometer measured parameters FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6,

FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25% 75%, FET, Estimated Lung Age, Extr. Vol., FIVC, FIV1, FIV1/FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MW measured, MW calculated

SpO₂ range: 0 -100%, ±2% (50-100% SpO₃) Pulse rate range: 20-254 BPM, ±2 BPM or 2% Pulseoximeter measured parameters

SpO, [Baseline, Min, Max, Mean], Pulse rate [Baseline,

Min, Max, Mean], T90% [SpO₂<90%], T89%[SpO₂<89%], T88% [SpO₂<88%], T5% [ΔSpO₃>5%], Δindex [12s], SpO₂ events, Pulse rate events [Bradycardia, Tachycardia], Step counter, Movement [VMU], Recording time, Analysis time

Body position, SpO₂ events, Desaturation index (ODI), Desaturation [Mean Value, Mean duration, Longest duration, Nadir Peak], ΔSpO₂ [Min Drop, Max Drop], Total Pulse Variations, Pulse Rate Index, NOD89% [SpO₂<89%; >5min], NOD4% [SpO₂ Basale-4%; >5min], NOD90% [SpO₃<90%; Nadir<86%; >5min]

• 33527 MINISPIR with Winspiro Light

Minispir Light measures 10 essential parameters for a diagnostic spirometry: FEV6, FVC, FEV1, FEV1%, PEF, FEF25/75%, FIVC, Lung Age, VC, IVC. Pediatric incentives. Flow/Volume loop and Volume/Time curve. Spirometry test interpretation.
Temperature sensor for BTPS conversion.

Minispir Light meets the requirements of integrated healthcare platforms FOR ESSENTIAL

and tablet applications. For use with RESPIRATORY FlowMir disposable turbine only (33507).

Winspiro Light is an intuitive and efficient software, for complete diagnosis included in Minispir Light.

PC SYSTEM REQUIREMENTS FOR WINSPIRO LIGHT/PRO Microsoft Windows: XP, Vista 32/64 bit, Seven 32/64 bit, 8 Screen resolution: 1024x768 Hard disk: 128 MB (better 256 MB) USB socket

Multilanguage: GB, FR, IT, ES, PT, DE, PL, SE, NL, CZ, LV, TR, RU, CN, JP

MINISPIR/MINISPIR LIGHT Temperature sensor: semiconductor (0-45°C) Flow sensor: bi-directional digital turbine Flow range: ± 16 L/s

TECHNICAL SPECIFICATIONS

Volume accuracy: ± 3% or 50 mL Flow accuracy: ± 5% or 200 mL/s Dynamic resistance at 12 L/s: <0.5 cm H₂O/L/s Communication port: USB

Power Supply: line powered from USB port Dimension: 50x142x26 mm

Weight: 65 g

AND MINISPIR®-USB

• 33528 MINISPIR with Winspiro PRO

• 33529 MINISPIR+OXYMETER with Winspiro PRO Real time Flow/Volume loop and Volume/time curve with PRE/POST comparison. Advanced spirometry test interpretation. Pediatric incentive animations. Lung Age. Bronchial provocation test including new Mannitol protocol with FEV1 response curve. Temperature sensor for BTPS conversion. Supplied with reusable turbine.

32 measured parameters: FVC, FEV1, FEV1%, FEV3, FEV3%, FEV6, FEV1/ FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FEF30%, FEF75%, FEF25-75%, FET, Vext, Lung Age, FIVC, FIV1, FIV1%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VC, Rf, ti, te, ti/t-

tot, VT/ti, MVV.

CD manual GB, FR, IT, ES, DE, PT. Winspiro PRO is a unique spirometry and oximetry software, which comes standard with

Minispir. All patient records are shown on simple, single-screen patient cards with dynamic management of all data and graphs.

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	GIMA code	SPARE PARTS AND ACCESSORIES
,	33507	Flowmir disposable turbine with
		integrated mouthpiece - box of 60
	33410	Adult mouthpieces Ø ext 3 cm - box
		of 500 pieces (only for 33526)
	33526	Reusable turbine (only for 33528-9)



33529 PC not included



TECHNICAL SPECIFICATIONS MINISPIR SpO SpO₃ range: 0-99%

SpO₂ accuracy: ± 2% tra 70-99% SpO₂ Pulse Rate range: 30-300 BPM Pulse Rate accuracy: ± 2 BPM or 2%

TESTING

Measured parameters
SpO₂ [Baseline, Min, Max, Mean],
Pulse Rate [Baseline, Min, Max, Mean],
T90 [SpO₂<90%], T89 [SpO₂<89%], T88
[SpO₂<88%], T5 [ΔSpO₂>5%], Δ Index [12s], SpO, Events, Pulse Rate Events [Bradycardia, Tachycardia]

FOR COMPLETE RESPIRATORY ANALYSIS