

SPIRODOC® - SPIROMETER AND OXIMETER

- 33532 SPIRODOC SPIROMETER + MIR SPIRO BASIC PC SOFTWARE - bluetooth
- 33533 SPIRODOC OXIMETER + MIR SPIRO PLATINUM PC SOFTWARE
- 33534 SPIRODOC SPIROMETER + OXIMETER + MIR SPIRO BASIC PC SOFTWARE - bluetooth

One touch laboratory for respiratory analysis suitable for professional and personal use, supplied with reusable turbine. Complete spirometer ATS/ERS compliant. Specialist-level analysis, screening and Home-care monitoring. 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. Possibility to enter patient name.

Intelligent pulse oximeter with on-screen results
Simple, clear SpO₂ 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 (eDiary)

Fast on-screen symptoms entry. Easy touch screen with settable



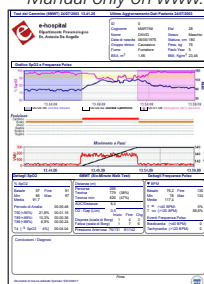
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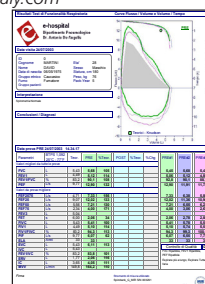
**SPIROMETER + OXIMETER
+ 3D ACCELEROMETER
IN ONE UNIT**



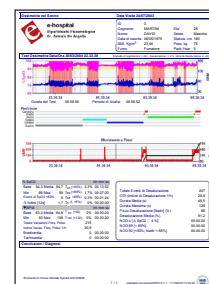
Internal software and manual: GB, FR, IT, ES, DE, PT
* Manual only on www.gimaitaly.com



3 phase report of 6 min walk test: baseline, walk, recovery



Spirometry report



Sleep test report

questions and automatic answer recording for homecare use.
High performance MIR Spiro Basic PC software for spirometry.
Multilingual software: see below.
MDR certified.

MADE IN ITALY

TECHNICAL SPECIFICATIONS

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
Size - weight: central unit 101x48x16 mm, 99 g
removable turbine head: 46x47x24 mm, 17 g

Spirometry

Flow sensor: Bi-directional digital turbine, range: ± 16 L/s
Volume accuracy: $\pm 2.5\%$ or 50 mL, whichever is greater
Flow accuracy: $\pm 5\%$ or 200 mL, whichever is greater
Dynamic resistance at 12 L/s: <0.5 cm H₂O/L/s

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

Oximetry

SpO₂ range: 0-100%, $\pm 2\%$ (50-100% SpO₂)
Pulse rate range: 20-254 BPM, ± 2 BPM or 2%

Pulseoximeter measured parameters

SpO₂ [Baseline, Min, Max, Mean], Pulse rate [Baseline,

Min, Max, Mean], T90% [SpO₂ <90%], T89% [SpO₂ <89%], T88% [SpO₂ <88%], T5% [Δ SpO₂ >5%], Δ index [12s], SpO₂ events, Pulse rate events [Bradycardia, Tachycardia], Step counter, Movement [VMU], Recording time, Analysis time
Sleep analysis
Body position, SpO₂ events, Desaturation index (ODI), Desaturation [Mean Value, Mean duration, Longest duration, Nadir Peak], Δ SpO₂ [Min Drop, Max Drop], Total Pulse Variations, Pulse Rate Index, NOD89% [SpO₂ <89%; >5min], NOD4% [SpO₂ Basale-4%; >5min], NOD90% [SpO₂ <90%; Nadir <86%; >5min]

MINISPIR® SPIROMETER

- 33528 MINISPIR with MIR SPIRO BASIC PC SOFTWARE

Real time Flow/Volume loop and Volume/time curve with PRE/POST comparison.

Advanced spirometry test interpretation.

Pediatric incentive animations. Lung Age.

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%, FET, Vext, Lung Age, FIVC, FIV1, FIV1%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV. Manual GB, IT (FR, ES, DE, PT available on www.gimaitaly.com)

MDR certified.

Mir Spiro Basic PC Software

High performance software for spirometry and oximetry see beside.

MADE IN ITALY



Health Canada

**FOR COMPLETE
RESPIRATORY
ANALYSIS**



GIMA code SPARE PARTS AND ACCESSORIES

33507	Flowmir disposable turbine with integrated mouthpiece - box of 60
33526	Reusable turbine
33410	Adult mouthpieces Ø ext 3 cm - box of 500 pieces for 33526 - spare

TECHNICAL SPECIFICATIONS

Temperature sensor: semiconductor (0-45°C) Communication port: USB
Flow sensor: bi-directional digital turbine Power Supply: line powered from USB port
Flow range: ± 16 L/s Dimension: 50x142x26 mm
Volume accuracy: $\pm 2.5\%$ or 50 mL Weight: 65 g
Flow accuracy: $\pm 5\%$ or 200 mL/s
Dynamic resistance at 12 L/s: <0.5 cm H₂O/L/s

MIR SPIRO PC SOFTWARE

MIR SPIRO BASIC AND PLATINUM PC SOFTWARE

The next-generation software for Spirometry. It complies with ATS/ERS 2019. Powerful and advanced, provides a wide range of features in a new graphic and customizable settings. New user interface, much more user intuitive and easier interoperability for EHR/ EMR integration. Automatic updates provide the latest version of software.

MIR Spiro Basic PC Software: standard with all MIR professional products

MIR Spiro Platinum PC Software: standard with 33533

Platinum version can be unlocked by a paid upgrade to MIR.

MIR SPIRO PC SOFTWARE	BASIC	PLATINUM
TEST		
FVC Pre/Post, VC Pre/Post	•	•
Oximetry Spot	•	•
MVV Pre/Post	•	•
Oximetry 6MWT, Oximetry Sleep	•	•
PATIENT MANAGEMENT		
New patient / Patient List / Patient Search	•	•
Patient Session Summary	•	•
Patient Risk factors/Symptoms	•	•
Test cronology comparison	•	•
Worklist	•	•
PRINTOUTS		
FVC Printout STD and ATS 2019	•	•
FVC Printout STD NIOSH/OSHA	•	•
Oximetry Calibration Printout and VC Printout	•	•
Quality Grade Printout	•	•
DATA MANAGEMENT		
Data sharing/Interoperability	•	•
Data import from Legacy db	•	•
Data Import from third parties sfw db	•	•
Data Export in Excel/csv/ATS/HL7/GDT	•	•
Data Recovery	•	•
Emphysema Severity Index (ESI)	•	•
ESI Method Artificial Intelligence	•	•

PC SYSTEM REQUIREMENTS

Windows: 7, 8, 10, 11 (all 32, 64 bit); RAM 1 GB for 32 bit or 2 GB for 64 bit
1 GHz or faster processor, two or more cores in a 64 bit processor
1 GB free hard disk space
Mac iOS: operating system from 10.13; RAM 2 GB (recommended 4 GB)
1 GB free hard disk space
Connection: USB port or Bluetooth low energy
Multilingual software: GB, FR, IT, ES, PT, DE, PL, HU, RO, SE, NL, CZ, LV, TR, RU, CN, JP