# SPIRODOC SPIROMETER + OXIMETER + SOFTWARE




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| Product Code | 33534 |
| Unit of sale | 1 pc |
| Minimum order | 1 |
| Type | Medical device |
| Class | II A |

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| RDM (NSIS) | 2621372 |
| CND | Z12150102 |
| EAN/UPC | 8023279335347 |
| GMDN | 46906 |

## Description

SPIRODOC SPIROMETER + OXIMETER + MIR SPIRO 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, memorizes events and 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 questions and automatic answer recording for homecare use.

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

Made in Italy.

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**MIR SPIRO PC software**
The next-generation software for Spirometry and Oximetry.
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 PC Software one year licence subscription included with all MIR spirometers and oximeter.
**MIR Spiro software licence has one-year validity**
Annual Platinum subscription renewal on mymir.spirometry.com

TEST:
FVC Pre/Post, SVC Pre/Post
Oximetry Spot
24h oximetry holter
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: 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, UA, GE, RU, CN, JP

## 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: ±2.5% 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
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 -99%, ±2% (70-99% SpO2)
Pulse rate range: 30-254 BPM, ±2 BPM or 2%

Pulseoximeter measured parameters
All test
SpO2%MIN, SpO2%MEAN SpO2%MAX, BPM MIN, BPMMEAN, BPM MAX, Ttotal, Tanalysis, T<90%, T<89%, T<88%, T<87%, EvSpO2%<89, ?Index, T<40BPM, T>120BPM, Ev<40BPM, Ev>120BPM

Sleep test
SpO2%BASE, BPMBASE, ODI, Mean Dur. Desat., TotDesaturat., Longest Desat., Desatur. Peak, BPM Index, Mean Desaturat., Mean Drop, Max Drop, BPM Variation, NOD4%, NOD89%, NOD90%, t.NOD4%, t.NOD89%, t.NOD90% Record of body position

6MWT test
SpO2%, BPM, Tbaseline, Twalking, Trecovery, Distance, T2%?SpO2, T4%?SpO2, Predicted, %Predicted, AUC/Distance, Dyspnea, Dyspnea CHG, Fatigue, Diastolic, Systolic, Steps, VMU, O2-GAP, O2