SPIRODOC SPIROMETER + OXIMETER + SOFTWARE

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

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