MIR
MEDICAL INTERNATIONAL RESEARCH

Spirodoc®

The first 3D Oximeter®

Two functional modes: doctor and Home-Care

reddot design award
winner 2010 – 2011

Smart Oximeter with all results on-screen

Touch Screen display
for immediate
and intuituve use

Automatic ON/OFF
simple programmable
ON/OFF timer

3D Accelerometer
with motion analysis
for O_2 prescription

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Spirodoc®

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).

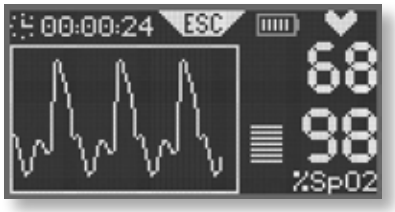
3D accelerometer with motion analysis

6MWT with new O_2 Gap Index (MIR patent pending)

Simple, clear SpO2 and Pulse Rate measurements with the plethysmographic curve.

During the single six-minute walk test (6MWT), Spirodoc® estimates the level of oxygen therapy required by the patient.

Innovative and essential in pneumology, cardiology and rehabilitation etc.



Plethysmographic Curve

Day and night

Spirodoc® carries out sleep desaturation studies and memorizes events as well as body position.

Oximetry Menu

Patient Data Entry

Parameter Choice

WinspiroPRO
now available with HL7 interface

MIR PC software for maximum oximetry performances

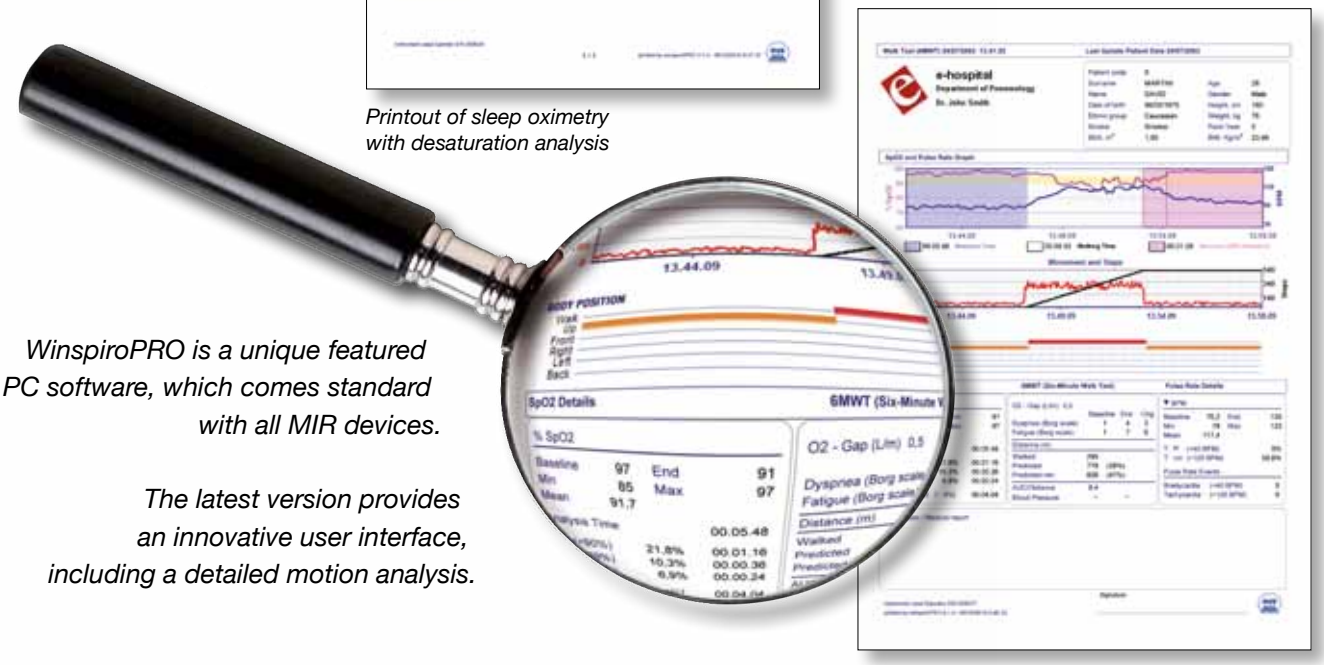
All results can be quickly printed.

All tests memorised in Spirodoc® are automatically downloaded into winspiroPRO and a patient data card is automatically created.

Printout of sleep oximetry with desaturation analysis

WinspiroPRO can easily be connected to a database, EPR, hospital or occupational health system.

Special edition with HL7 interface is available on request.



WinspiroPRO is a unique featured PC software, which comes standard with all MIR devices.

The latest version provides an innovative user interface, including a detailed motion analysis.

Printout of the 6 minute walking test: baseline, walk, recovery

Printout with events analysis

Comprehensive patient records

All patient physical activity records, as well as body position, are shown on simple, single-screen patient cards with dynamic management of all data and graphs including SpO2 measurements during the corresponding test (6MWT, Sleep, Stress Test…).

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Spirodoc®

Sensors and accessories available on request

Spirometry detachable transducer can be attached or removed from the oximeter

Belt with silicon holder

Bluetooth® connectivity

Paediatric and adult finger probe

Neonatal flex probe

Central unit technical specifications

Display: LCD Backlit Touch screen Display:
Resolution: 128x64 pixels
Power supply: Lithium ion 3.7V, 1100mA rechargeable battery with 30 hours measurement back-up
Data transmission: USB 2.0 (Bluetooth® optional)
Accelerometer: Triaxial ± 2g, 400Hz sampling
Dimensions and weight: central unit 101x48x16mm, 99g
Battery charger (optional): 100VAC - 240VAC, 50Hz-60Hz output 5VDC, 500mA, micro USB type B

Oximeter technical specifications

SpO2 range: 0-100%
SpO2 accuracy: ±2% (50-100% SpO2)
Pulse rate range: 20-254BPM
Heart rate accuracy: ±2BPM or 2%, whichever is greater

Oximeter measured parameters (standard)

SpO2 [Baseline, Min, Max, Mean], Pulse rate [Baseline, Min, Max, Mean], T90% [SpO2<90%], T89% [SpO2<89%], T88% [SpO2<88%], T5% [ΔSpO2>5%], ΔIndex [12s], SpO2 Events, Pulse rate events [Bradycardia, Tachycardia], Step counter, Movement [VMU], Recording time, Analysis time

Sleep analysis (specific parameters)

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% [SpO2<90%; Nadir<86%; >5min]

6MWT (6 Minute Walk Test specific parameters)

O_2-Gap, Estimated distance, Distance walked, Predicted distance [Min, Standard], TΔ2% [SpO2≥2%], TΔ4% [ΔSpO2≥4%], Time [Rest, Walking, Recovery], Desaturation Area/Distance
Optional data entry: *Borg Dyspnea [Baseline, End, Change], Borg Fatigue [Baseline, End, Change], Arterial blood pressure [Systolic, Diastolic], Oxygen administered*

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