



Spirometry, Oximetry and MedTech solutions

www.spirometry.com
www.mirsmartone.com



Global MIR Market

MIR distributes its products in over 100 countries and it has been ranked among the top 5 Spirometry manufacturers in the world!

MIR is identified as a **visionary leader** for the strength of product portfolio, distribution network across the globe and business strategy excellence.

Distribution



100

countries
in the world

Experience



30

years
of experience
in Spirometry

Patents



8

exclusive
international
patents

Research



16%

annual turnover
invested in **R&D**

Professional Use Products

Spirolab
Spirodoc
Spirobank II Smart

Spirobank II Basic
Minispir
Minispir Light



PROFESSIONAL

Spirolab™

Complete Touchscreen Desktop Spirometer with built-in printer
Stand Alone and PC connection via USB

*
with
Oximetry
option

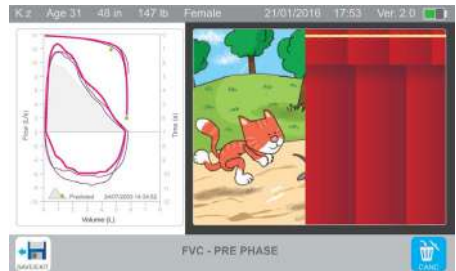


7" LCD Color
Touchscreen

Fast operating system and data entry

Real-time tests

GLI predicted sets




Pediatric incentive available on display

Built-in printer with customizable
printout format

Long-lasting rechargeable battery
and **massive** internal storage

 ATS/ERS 2019, CE 0476, FDA 510(k)

 Available with both **disposable** or **reusable**
turbine flowmeter

 MIR Spiro New Spirometry Software for **Windows** and **MacOs**
Spirometry test: FVC, VC, IVC, MVV, PRE/POST Bronchodilator
comparison with a wide range of selectable parameters

PROFESSIONAL

Spirodoc™

Portable Touchscreen Spirometer with 3D Oximetry option
Stand Alone and PC connection via USB

*
with
Oximetry
option



Patient data entry



Detachable flowmeter head to facilitate Oximetry test.

6MWT, Sleep Test

Real-time tests

Long-lasting rechargeable battery
and **massive** internal storage

Triaxial accelerometer for verification of the patient's ability to move and positioning during recording.

CE 0476, FDA 510(k)

Available with both **disposable** or **reusable**
turbine flowmeter



MIR Spiro New Spirometry Software for **Windows** and **MacOs**



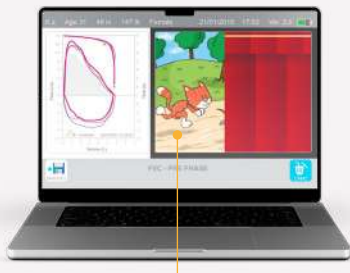
Spirometry test: FVC, VC, IVC, MVV, PRE/POST Bronchodilator
comparison with a wide range of selectable parameters

PROFESSIONAL

Spirobank II™ Smart

Portable Spirometer for iPad and PC
Stand Alone and PC connection via Bluetooth and USB

*
with
Oximetry
option



Pediatric Incentive



Real-time tests

SpO2% and pulse rate (optional) directly on the display (including **plethysmographic curve**)

Long-lasting rechargeable battery and **massive** internal storage



ATS/ERS 2019, CE 0476, FDA 510(k)



Available with both **disposable** or **reusable** turbine flowmeter



MIR Spiro New Spirometry Software for **Windows** and **MacOs**



Spirometry test: FVC, VC, IVC, MVV, PRE/POST
Bronchodilator comparison with a wide range of selectable parameters

PROFESSIONAL

Spirobank II™ Basic

Portable and easy to use spirometer
Stand Alone and PC connection via USB



Ideal for family doctors,
occupational medicine, screenings

Real-time tests

Spirometric parameters: FVC, FEV1, FEV1%,
PEF, FEV25-75, FET, Extrap. Volume, Estimated
Lung Age, VC, IVC, IC, ERV.



ATS/ERS 2019, CE 0476, FDA 510(k)



Available with both **disposable** or **reusable**
turbine flowmeter



MIR Spiro New Spirometry Software for **Windows**
and **MacOs**



Spirometry test: FVC, VC, IVC, PRE/POST
Bronchodilator comparison with a wide range
of selectable parameters

PROFESSIONAL

Minispir™

PC-based
Spirometer



Real time Flow/Volume and Volume/Time curves on your PC for a comprehensive Spirometry

Real time COPD and Asthma screening

Powered via USB, no display, no internal memory, no maintenance

Includes a wide range of selectable parameters

PROFESSIONAL

Minispir™ Light Post BD

Simplified PC-based Spirometer



Real time Flow/Volume and Volume/Time curves on your PC for a comprehensive Spirometry

Real time COPD and Asthma screening have never been so **intuitive** and **inexpensive!**

Powered via USB, no internal memory, no display, no maintenance



ATS/ERS 2019, CE 0476, FDA 510 (k)



Available with both **disposable** or **reusable** turbine flowmeter



MIR Spiro New Spirometry Software for Windows and MacOS



Spirometry test: FVC, VC, IVC, MVV, PRE/ POST Bronchodilator comparison with a wide range of selectable parameters



ATS/ERS 2019, CE 0476, FDA 510 (k)



Available with both **disposable** or **reusable** turbine flowmeter



MIR Spiro New Spirometry Software for **Windows** and **MacOs**



Spirometry test: FVC, VC, IVC, PRE/ POST Bronchodilator comparison

MIR Spiro

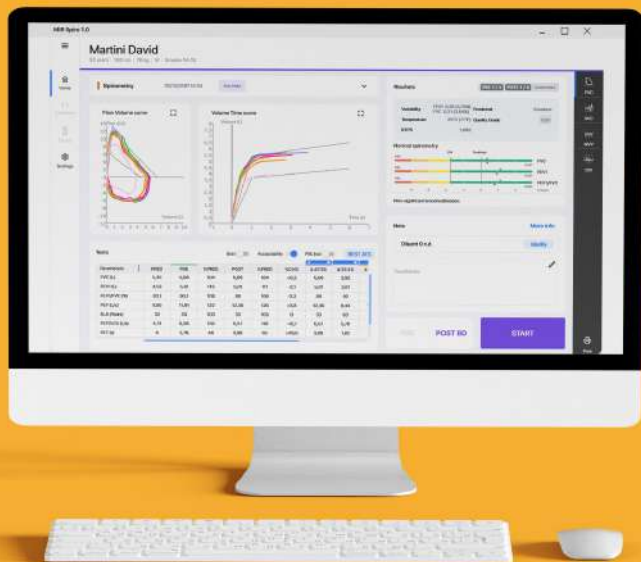
A completely innovative software
for Spirometry and Oximetry

MIR Spiro is the **next-generation software** for **Spirometry** and **Oximetry**. It complies with **ATS/ERS 2019** guidelines and it is compatible with all professional MIR clinical spirometry products.

Powerfull and **advanced**, **MIR Spiro** provides a **wider range** of features in a **new style graphic** and **customizable settings**. Featuring a **new user interface**, **MIR Spiro** is much more user **intuitive**, **easy-to-use** and offers **easier interoperability** for **EHR/EMR integration**.

Plus the **automatic update** feature allows having the most up-to-date version of software available.

By upgrading to the **MIR Spiro Platinum**, the **premium software version** of **MIR Spiro**, you will **unlock** many **other features** and open a **wider range** of **extra contents**, such as: different selectable printouts, fully customizable settings and parameters view, Tests previews, MVV Management, PRE, POST and printing, Data sharing in different formats, Data migration from multiple databases and more.



Enjoy all functions unlocked!

MIR Spiro Platinum

Switch to Platinum and enjoy all functions unlocked!

		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	✓	✓
	FVC Printout ATS 2019	✓	✓
	FVC Printout STD NIOSH/OSHA	✗	✓
	Oximetry Printout	✗	✓
	Calibration Printout	✗	✓
	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	✗	✓

FlowMIR

Disposable Turbine Flowmeter MIR exclusive product International patent



Each turbine, which includes a cardboard mouthpiece, has been individually factory tested with a computerized system

For each patient, after the Spirometry test, both **turbine** and **mouthpiece** are **thrown away**

100% hygienic

INTERNATIONAL PATENT

VOLUME ACCURACY $\pm 2,5\%$ OR 50 ML

FlowMIR Dispensers (60 pcs)

 Comfortable Packaging

 Singulary Tested and Packed

 Eliminates staff clean-up time

 No Sterilisation

 No Calibration needed

 No Cross Contamination

 No Antibacterial Filter

 Always 100% accurate and hygienic

 ATS/ERS Compliant for accuracy

 Not affected by Vapour Condensation

 Not affected by Ambient conditions

 The Best Sensor for Spirometry

Personal Use Products

Spirobank Smart
Spirobank Oxi

Smart One
Smart One Oxi



PERSONAL APP-BASED SPIROMETER

Spirobank Smart

The simplest device for cost-effective Spirometry on your smartphone



Common features Spirobank Smart and Oxi:

Real time test on Smartphone

Test results and Spirometry guidelines are **easy to understand**

Ready to Connect: designed for **Remote Patient Monitoring**, Homecare, Clinical Trials and 3rd party software integration

Smart: ATS/ERS 2019, CE 0476, FDA 510 (k)

Oxi: ATS/ERS 2019, CE 0476, FDA Pending

Available with both **disposable** or **reusable** turbine flowmeter



PERSONAL



Spirobank Oxi

Available with SpO2% and BPM



Additional features Spirobank Oxi:

Innovative reflectance Pulse Oximetry Sensor (Touch)

Real-Time plethysmographic curve on Smartphone

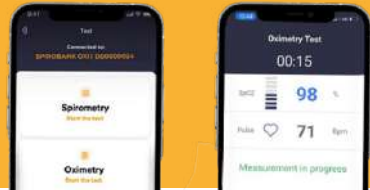


Spirometry test: PEF, FEV1, FVC, FEV1/FVC, FEF2575, FEF6, VEXT, DTPEF, FEF75, FEF25, FEF50

android  iOS

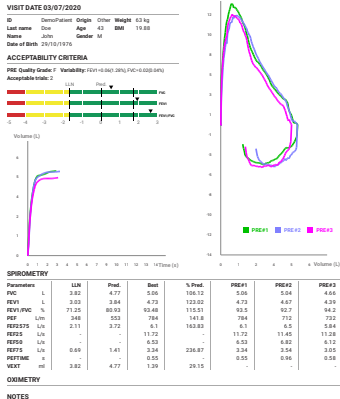
MIR Spirobank App

Real-time Spirometry and Oximetry test on patient's Smartphone



Go-To-Market toolkit: Software Development Kit (SDK) available for App developers

Spirometry results



Main Features

- Spirometry and Oximetry test in one App
- Automatic connection via Bluetooth Smart BLE 5.0
- Suitable for all ages excluding newborns and infants
- GLI-2012 predicted sets for Spirometry reference value

Distinctive Features

- Acceptability Messages and real time animation on Smartphone to improve personal compliance during the test
- E-diary, symptoms and notes can be added for each test
- Easy-to-read graphic trends for self-monitoring of Spirometry and Oximetry
- Flow/Volume loop and real-time plethysmographic curve on screen

Professional PDF Report

Share PDF report via WhatsApp, e-mail and other applications

Live Video Exam

App for remote Spirometry and Oximetry

Always up-to-date



PERSONAL APP-BASED SPIROMETER

Smart One™

Peak Flow and FEV1 on your Smartphone and Tablet



PERSONAL

Smart One Oxi™

Now available with SpO2% and BPM



Common features Smart One and Oxi:

Ideal in the **self-management of Asthma, COPD, Lung Transplant Care, Cystic Fibrosis** and for use in Clinical Trials

Easy-to-read test results. Symptoms scoring and notes can be added to each test.

Ready-to-Connect with 3rd party Apps for Personal Care


Additional features Smart One Oxi:

Innovative reflectance Pulse-Oximetry sensor (Touch)

Real time plethysmographic curve on Smartphone and Tablet



 **Smart One:** ATIS/ESR 2019, CE0476, FDA 510(k) – O.T.C.
Oxi: ATIS/ESR 2019, CE0476, FDA Pending

 Available with **reusable** single patient turbine flowmeter

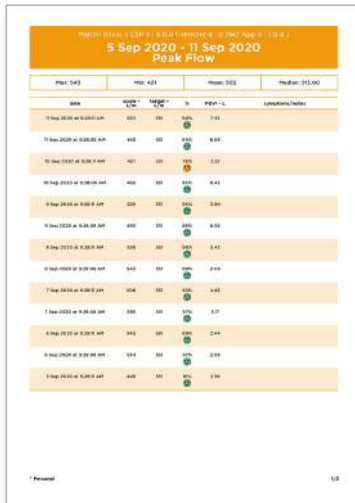
 Spirometry test: PEF, FEV1



android  iOS

Smart One App

Measurement of peak flow and oximetry for basic self-screening on your Smartphone



Peak Flow						
5 Sep 2020 - 11 Sep 2020						
Plan: 042	Min: 423	Mean: 522	Max: 610	Median: 515.00		
Date	Time	Flow	SpO2	PEFR - L	Comments/Notes	
10 Sep 2020	08:30:00 AM	523	98	610		
11 Sep 2020	08:30:00 AM	492	98	540	6:00	
10 Sep 2020	08:30:00 AM	461	98	520	5:30	
10 Sep 2020	08:30:00 AM	465	98	520	6:45	
10 Sep 2020	08:30:00 AM	528	98	570	3:00	
10 Sep 2020	08:30:00 AM	492	98	520	4:30	
8 Sep 2020	08:30:00 AM	538	98	570	3:45	
8 Sep 2020	08:30:00 AM	540	98	570	4:00	
7 Sep 2020	08:30:00 AM	528	98	570	4:45	
7 Sep 2020	08:30:00 AM	528	98	570	5:15	
8 Sep 2020	08:30:00 AM	540	98	570	2:45	
8 Sep 2020	08:30:00 AM	540	98	570	3:15	
8 Sep 2020	08:30:00 AM	492	98	520	4:30	

Main Features

- Spirometry and Oximetry test in one App
- Automatic connection via Bluetooth Smart BLE 5.0
- Suitable for all ages excluding newborns and infants
- GLI-2012 predicted sets for Spirometry reference value

Distinctive Features

- Acceptability Messages and Real-time animation on Smartphone and Tablet to improve personal compliance during the test
- E-diary, for symptoms and notes can be added for each test
- Easy-to-read graphic trends for self-monitoring of Spirometry and Oximetry
- Acceptability Messages, "Traffic Light" result interpretation for Peak Flow

Always up-to-date



Go-To-Market toolkit: Software Development Kit (SDK) available for App developers

android  iOS  Windows 

Live Video Exam

App for remote Spirometry and Oximetry



Live Video Exam is a Windows-based **PC software** dedicated for Health Care Providers to support the patient (connected via Smartphone to the **MIR Spirobank App**) in performing spirometry and oximetry test remotely in real time.

Live Medical Supervision increases patient cooperation in performing the test and is essential in obtaining optimal test results.

The App include **real-time video support** of the Health Care Provider.

Peer-to-Peer connection is **secure** and **protected** by end-to-end-encryption.

HCP receives data in real-time on the PC, can add notes and therapeutic plans, save and share results in PDF. Patient only needs to focus on the test. The software will transfer data automatically.

Live Video Exam: **monitor your patients remotely!**



MIR SDK

Software Development Kit (SDK) for iOS and Android
Develop your own Spirometry and Oximetry App
with limited time and efforts!



MIR Software Development Kit

The MIR Software Development Kit allows you to easily connect and handle MIR spirometers and oximeters into your application.

Ideal for remote patient monitoring, clinical trials and more Develop your own Spirometry and Oximetry App with limited time and efforts.

Complete FVC Test

For Apps designed to Detect, Diagnose,
Manage the most common respiratory disease

Include SVC test

Additional Health Surveillance as requested by
many Hospitals and Clinics

Continuous flow monitor

Retrieve a Flow point each 10 milliseconds
of Time, to develop Apps for Clinical Trials,
Respiratory Rehabilitation and Games

PEF & FEV1 Test

Expiratory flows in 1 second to develop Asthma
and COPD monitoring Apps

Oximetry Test

Plethysmographic curve and real-time SpO2%
and BPM for Oximetry

Main Features

✓ **Bluetooth connection**

Device discovery, connection, start test,
perform test, battery level, firmware/Csr
version and more

✓ **Effortless Development**

Only native language (Java/Kotlin, Objective-C/
Swift). SDK libraries reduce the time-to-
market, no medical engineering skills required

Distinctive Features

✓ **Spirometry Guidelines**

Not only raw data: SDK include “reference”
values for Spirometry and get predicted,
LLN and Z-Score values

✓ **Interactive and intuitive**

“Acceptability” warnings and instructions for
patients, according to the latest ATS 2019
guidelines

✓ **Global and multi-ethnic**

GLI-2012 equations for multi-ethnic groups
and the 5-93 age range. Develop a global
App for international customers

✓ **Always Up-To-Date**

Subscribe and join MIR Developer Program,
receive SDK updates and MIR developer badge

Our new business: Cardiology

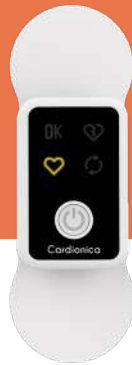
Cardionica



PERSONAL

Cardionica

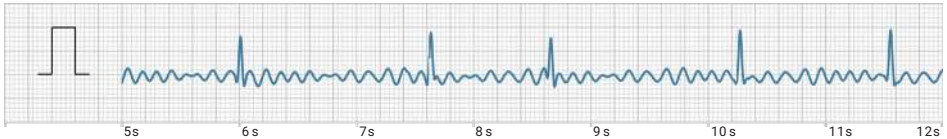
Medical – grade portable,
single – lead ECG



Atrial Fibrillation

Date/time: 30/03/22 14:38

Heart rate: 65 bpm



Ideal for **heart rhythm check**, the **detection of atrial fibrillation**, **tachycardia**, **bradycardia**, as well as **stroke prevention**.

Brand-new portable single-lead ECG to measure the rhythm of your heart beats every day.

Easy to use, track your heart health in **one minute**, everywhere you are and with the accuracy of a clinical setting.

The first personal ECG you can use in **stand-alone** mode (embedded display with colored LED indicators and internal memory up-to 120 test) and **via Bluetooth® directly from your Smartphone** (free mobile App always included).

Personal ECG tracing in PDF and EDP format to be shared with anyone via E-mail, WhatsApp, cloud server and other apps



ECG analysis in line with 2020 AF guidelines (ECG, P-wave, RR irregularity)



Accurate in compliance with international Standard IEC 60601-2-47






Always included: 4X patches and personal App (Cardionica) for iOS and Android Smartphones






Noise reduction and motion artifact detection

Comparison Matrix – General features




	Spirolab 	Spirodoc 	Spirobank II Smart 
Dimensions	8.6x8.3x2" (220x210x51 mm)	4.2x2.4x1.0" (101x48x16 mm)	6x2x1" (160x55x25 mm)
Display	7"	3"	2.5"
Weight	51 Oz (1450 g)	4 Oz (116 g)	5 Oz (140 g)
Carrying Case	Included	Included	Included
Device Type	Desktop	Pocket Size	Pocket Size
Real Time PC	Yes	Yes	Yes
Real Time Tablet	No	No	Yes
Power Supply	Rechargeable battery	Rechargeable battery	Rechargeable battery
Battery Charger	Included	Not included	Not included
Thermal Printer	Internal	No	No
Connectivity	USB	USB, Bluetooth 2.1	USB, Bluetooth 4.0
USB to Printer	Yes	No	No
Post BD	Yes	Yes	Yes
Memory Spiro	10.000 tests	10.000 tests	10.000 tests
Pulse - Oximetry	Optional	Optional	Optional
Sensor Type	Turbine	Turbine	Turbine
Disposable Sensor	Yes	Yes	Yes
Reusable Sensor	Yes	Yes	Yes
Software name always included	MIR Spiro	MIR Spiro	MIR Spiro
USB to PC	Yes	Yes	Yes
Bluetooth to PC	Yes	No	Yes

MIR products comply with the latest ATS/ERS standardization of spirometry (September 2019 update), Volume accuracy $\pm 2.5\%$ or 50 ml




Spirobank II Basic 	Minispir 	Minispir Light Post BD 
6x2x1" (160x55x25 mm)	5.5x1.9x1" (142x49,7x26 mm)	5.5x1.9x1" (142x49,7x26 mm)
2,5"	Not Required	Not Required
5 Oz (140 g)	2.2 Oz (65 g)	2.2 Oz (65 g)
Included	Included	No
Pocket Size	PC Based	PC Based
Yes	Yes	Yes
No	No	No
Rechargeable battery	USB Socket of PC	USB Socket of PC
Not included	Not Required	Not Required
No	No	No
USB	USB	USB
No	No	No
Yes	Yes	Yes
10.000 tests	Uses PC memory	Uses PC memory
No	No	No
Turbine	Turbine	Turbine
Yes	Yes	Yes
Yes	Yes	No
MIR Spiro	MIR Spiro	MIR Spiro
Yes	Yes	Yes
No	No	No

MIR products comply with the latest ATS/ERS standardization of spirometry (September 2019 update), Volume accuracy $\pm 2,5\%$ or 50 ml

Comparison Matrix – Spirometry Parameters

	Spirolab 	Spirodoc 	Spirobank II Smart 
STAND ALONE	<p>FVC, FEV1, FEV1/ FVC, FEV1/VC, PEF, FEF25, FEF50, FEF75, FEF25–75, FEF75–85, Lung Age, Extrapolated Volume, FET, Time to PEF, FEV0.5, FEV0.5/F-VC, FEV0.75, FEV0.75/ FVC, FEV2, FEV2/ FVC, FEV3, FEV3/ FVC, FEV6, FEV1/ FEV6, FEV1/PEF, FEV1/FEV0.5, FIVC, FIV1, FIV1/ FIVC, PIF, FIF25, FIF50, FIF75, FEF50/FIF50, VC, IVC, IC, ERV, IRV, Rf, VE, VT, tl, tE, VT/tl, tE/tTOT, MVV (measured), MVV (calculated)</p>	<p>FVC, FEV1, FEV1/ FVC, FEV1/VC, PEF, FEF25, FEF50, FEF75, FEF25–75, FEF75–85, Lung Age, Extrapolated Volume, FET, Time to PEF, FEV0.5, FEV0.5/FVC, FEV0.75, FEV0.75/ FVC, FEV2, FEV2/ FVC, FEV3, FEV3/ FVC, FEV6, FEV1/ FEV6, FEV1/PEF, FEV1/FEV0.5, FIVC, FIV1, FIV1/ FIVC, PIF, FIF25, FIF50, FIF75, FEF50/FIF50, VC, IVC, IC, ERV, IRV, Rf, VE, VT, tl, tE, VT/tl, tE/tTOT, MVV (measured), MVV (calculated)</p>	<p>FVC, FEV1, FEV1/ FVC, FEV1/VC, PEF, FEF25, FEF50, FEF75, FEF25–75, FEF75–85, Lung Age, Extrap. Volume, FET, Time to PEF, FEV0.5, FEV0.5/FVC, FEV0.75, FEV0.75/ FVC, FEV2, FEV2/ FVC, FEV3, FEV3/ FVC, FEV6, FEV1/ FEV6, FIVC, FIV1, FIV1/FIVC, PIF, FIF25, FIF50, FIF75, FEF50/ FIF50, VC, IVC, IC, ERV, IRV, Rf, VE, VT, tl, tE, VT/ tl, tE/tTOT, MVV (measured), MVV (calculated)</p>
PC WITH MIR SPIRO (WIN/MAC)	<p>Basic: FVC, FEV1, PEF, FEF75, FEF 2575, FET, FEV1/FVC, FEV6, FEV1/FEV6, FEF25, FEF50, FIVC, FEV1/VC, ELA, MVV (cal), PEFTIME, FEV05/ FVC, FEV075, FEV075/FVC, FEF7585, Extr. Vol, VC, EVC, IVC, IC, VC, ERV</p> <p>In addition with platinum version: FEV3, FIV1, FIV1/FIVC, PIF, FEV3/FVC, PIF, FEV2, FEV2/ FVC, FIF25, FIF50, FIF75, R50, FEV1/PEF (EI), FEV1/FEV05 (RFEV), TV, VE, RR, tl, tE, TV/tl, tl/Ttot, IRV, te/ti, VTTI, MV,MVV</p>	<p>Basic: FVC, FEV1, PEF, FEF75, FEF 2575, FET,FEV1/FVC, FEV6, FEV1/FE- V6, FEF25, FEF50, FIVC,FEV1/VC, ELA, MVV(cal), PEFTIME, FEV05, FEV05/FVC, FEV075, FEV075/FVC, FEF 7585, Extr. Vol, VC, EVC, IVC, IC, VC, ERV</p> <p>In addition with platinum version: FEV3, FIV1, FIV1/FIVC, PIF, FEF3/F- VC, PIF, FEV2, FEV2/FVC, FIF25, FIF50, FIF75, R50, FEV1/PEF (EI), FEV1/FEV05 (RFEV), TV, VE, RR, tl, tE, TV/tl, tl/Ttot, IRV, te/ti, VTTI, MV,MVV</p>	<p>Basic: FVC, FEV1, PEF, FEF75, FEF 2575, FET, FEV1/FVC, FEV6, FEV1/FEV6, FEF25, FEF50, FIVC, FEV1/VC, ELA, MVV(cal), PEFTIME, FEV05, FEV05/FVC, FEV075, FEV075/FVC, FEF 7585, Extr. Vol, VC, EVC, IVC, IC, VC, ERV</p> <p>In addition with platinum version: FEV3, FIV1, FIV1/FIVC, PIF, FEV3/FVC, PIF, FEV2, FEV2/ FVC, FIF25, FIF50, FIF75, R50, FEV1/PEF (EI), FEV1/FEV05 (RFEV), TV, VE, RR, tl, tE, TV/tl, tl/Ttot, IRV, te/ti, VTTI, MV,MVV</p>
IPAD WITH MIR SPIRO APP	No	No	FVC, FEV1, PEF, FEF25–75, FET, ELA, IVC, EVC

MIR products comply with the latest ATS/ERS standardization of spirometry (September 2019 update), Volume accuracy $\pm 2.5\%$ or 50 ml

Spirobank II Basic 	Minispir 	Minispir Light Post BD 
<p>FVC, FEV1, FEV1%, PEF, FEF25–75, FET, Extrap. Volume, Lung Age, VC, IVC, IC, ERV</p>	<p>No</p>	<p>No</p>
<p>Basic: FVC, FEV1, FEV1%, PEF, FEF25–75, FET, Extr. Vol, Lung Age, VC, IVC, IC, ERV</p> <p>In addition with platinum version: MVV</p>	<p>Basic: FVC, FEV1, PEF, FEF75, FEF2575, FET, FEV1/FVC, FEV6, FEV1/FEV6, FEF25, FEF50, FIVC, FEV1/VC, ELA, MVV(cal), PEFTIME, FEV05, FEV05/FVC, FEV075, FEV075/FVC, FEF7585, Extr. Vol., VC, EVC, IVC, IC, VC, ERV</p> <p>In addition with platinum version: FEV3, FIV1, FIV1/FIVC, PIF, FEV3/FVC, PIF, FEV2, FEV2/FVC, FIF25, FIF50, FIF75, R50, FEV1/PEF (EI), FEV1/FEV05 (RFEV), TV, VE, RR, tl, tE, TV/tl, tl/Ttot, IRV, te/ti, VTTI, MV, MVV</p>	<p>Basic: FVC, FEV1, PEF, FEF75, FEF2575, FET, FEV1/FVC, FEV6, FIVC, ELA, VC, EVC, IVC</p> <p>In addition with platinum version: MVV</p>
<p>No</p>	<p>No</p>	<p>No</p>

Comparison Matrix – Oximetry Parameters (Option)


	Spirolab 	Spirodoc 	Spirobank II Smart 	
OXIMETRY	Spot Test Parameters	SpO2 [Baseline, Min, Max, Mean], Pulse Rate [Baseline, Min, Max, Mean], T90, T89, T88, T5, Index [12s], SpO2 Events, Pulse Rate Events [Bradycardia, Tachycardia], Time-Tot, Time- misured	SpO2 [Baseline, Min, Max, Mean], Pulse Rate [Baseline, Min, Max, Mean], T90, T89, T88, T5, Index [12s], SpO2 Events, Pulse Rate Events [Bradycardia, Tachycardia], Time-Tot, Time- misured	SpO2 [Baseline, Min, Max, Mean], Pulse Rate [Baseline, Min, Max, Mean]
	6 MWT Parameters	No	O2-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, SpO2/BPM (Med. Min. Max. In. Fin.), T90, T89, T88, T87, SpO2/BPM Events.	No
	Sleep Test Parameters	No	SpO2 Events, Pulse Rate Events [Bradycardia, Tachycardia] Desaturation index (ODI), Desaturation [Mean Value, Mean duration Longest duration, Nadir Peak], ΔSpO2 [Min Drop, Max Drop], Total Pulse Variations, Pulse Rate Index, Time NOD(4%, 89%, 90%), SpO2/BPM (Med. Min. Max. In. Fin.),	No
	Memory Pulse Ox	900 Hours Pulse-Oximetry	900 Hours Pulse-Oximetry	900 Hours Pulse-Oximetry

MIR products comply with the latest ATS/ERS standardization of spirometry (September 2019 update), Volume accuracy $\pm 2.5\%$ or 50 ml

Spirobank II Basic 	Minispir 	Minispir Light Post BD 
No	No	No
No	No	No
No	No	No
No	No	No

MIR products comply with the latest ATS/ERS standardization of spirometry (September 2019 update), Volume accuracy $\pm 2.5\%$ or 50 ml

Comparison Matrix – Spirobank Smart and SmartOne

	Spirobank Smart 	Spirobank Oxi 	SmartOne 	SmartOne Oxi 		
DEVICE	Dimensions	1,93x4,29x082"(49x109x21mm)	1,94x4,29x082"(49x109x21 mm)	1,93x4,29x082"(49x109x21mm)	1,93x4,29x082"(49x109x21mm)	
	Display	No	No	No	No	
	Weight	2,14 Oz (60.7 g)	2,14 Oz (60.7 g)	2,14 Oz (60.7 g)	2,14 Oz (60.7 g)	
	Carrying Case	N/A	N/A	N/A	N/A	
	Device Type	Smart	Smart	Smart	Smart	
	Real Time PC	No	No	No	No	
	Real Time Smartphone	Yes	Yes	Yes	Yes	
	Power Supply	2 batteries AAA 1,5V	2 batteries AAA 1,5V	2 batteries AAA 1,5V	2 batteries AAA 1,5V	
	Battery Charger	N/A	N/A	N/A	N/A	
	Thermal Printer	No	No	No	No	
SENSOR	Connectivity	Bluetooth 5.0	Bluetooth 5.0	Bluetooth 5.0	Bluetooth 5.0	
	Memory on Device	No	No	No	No	
	Pulse-Oximetry	No	Yes	No	Yes	
	Sensor Type	Turbine	Turbine	Turbine	Turbine	
	Disposable	Yes	Yes	No	No	
	Reusable	Yes	Yes	Yes	Yes	
	APP	App Name	MIR Spirobank	MIR Spirobank	MIR SmartOne	MIR SmartOne
		Android	Yes	Yes	Yes	Yes
		iOs	Yes	Yes	Yes	Yes
		Memory Spiro on App	Yes	Yes	Yes	Yes
Memory Oxi on App		No	Yes	No	Yes	
BT to Printer	Yes	Yes	Yes	Yes		
PARAMETERS	Parameters Spiro	PEF, FEV1, FVC, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50	PEF, FEV1, FVC, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50	PEF, FEV1	PEF, FEV1	
	Parameters Oxi	No	SpO2 (%), Pulse (BPM) Plethysmographic curve	No	SpO2 (%), Pulse (BPM) Plethysmographic curve	
	Symptoms scoring	Yes	Yes	Yes	Yes	

MIR products comply with the latest ATS/ERS standardization of spirometry (September 2019 update), Volume accuracy $\pm 2,5\%$ or 50 ml

Consumables/ Accessories





Reusable Turbine
Reusable turbine with mesh.

Code: 910002
MIR Model: All professional use Spiro



Single patient reusable turbine with reusable mouthpiece
Reusable turbine, compatible with reusable bacterial/viral filter and mouthpiece.

Code: 910013
MIR Model: Spirobank Smart, Smart One



Paper adult disposable mouthpiece
Disposable, individually packed paper adult mouthpiece (CE marked).

Code: 910300_B
MIR Model: All Spiro



Reusable mouthpiece
Plastic adult reusable mouthpiece.

Code: 910307
MIR Model: All Spiro



Plastic paediatric reusable mouthpiece
Plastic paediatric reusable mouthpiece.

Code: 910310
MIR Model: All Spiro



Bacterial/viral filter
Bacterial/viral filter, disposable, packed in individual bag.

Code: 910306
MIR Model: All professional use Spiro



Paper roll for printer

Standard thermal paper roll for printer.

Code: 910350

MIR Model: Spirolab



Plastic noseclip

Plastic noseclip.

Code: 910322

MIR Model: All Spiro



Calibration syringe 3L

3L calibration syringe.

Code: 919000

MIR Model: All professional use Spiro



Oximetry finger sensor

Reusable, adult.

Code: 919024

MIR Model: All professional use Spiro



Oximetry finger sensor

Reusable, paediatric 5–45 kg.

Code: 939005

MIR Model: All professional use Spiro



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MIR reserves the right to modify
the technical characteristics
at any time