Personal Smart

SPIROBANK® SMART

App-Based Spirometer

The simplest device for accurate Remote Patient Monitoring and Homecare. Real time test available on Smartphone via Bluetooth®

MIR
MEDICAL INTERNATIONAL RESEARCH

www.spirometry.com

MAIN features

AUTOMATIC PAIR AND PLAY

Automatic pairing via Bluetooth. Real-time test result available on your Smartphone.

MEASURED PARAMETERS

Spirometry Parameters on App: FVC,FEV1, FEV1/FVC, PEF, FEF2575, FEF25, FEF50, FEF75, DTPEF, VEXT, FEV6

COMPLIANCE ATS/ERS 2019

And other Standards including ISO 26782 (for Spirometry), ISO 23747 (for PEF), and more. CE0476, FDA 510 (k)

MOBILE APP INCLUDED

Intuitive App for self-management of lung conditions, always included for iOS and Android

DISTINCTIVE features

SPIROMETRY GUIDELINES

Suitable for all ages from 5 to 93 years and multi-ethnic groups (GLI predicted sets)

COVID-19 PANDEMIC

Avoid going to the hospital or medical offices during COVID-19 pandemic

LIVE VIDEO EXAM

Connect with your Healthcare provider in real-time, from the comfort of your home

READY TO CONNECT

With 3rd party Apps for Professional Care, Personal Care and Clinical Trials

GO-TO-MARKET TOOLKIT

Software Development Kit available for System Integrators and App Developers.
OEM service available for Spirometry and Oximetry.

Learn more about available SDK and OEM

- **Up- to 19 Spirometry parameters available via SDK!**

Always INCLUDED

- 2x AAA 1.5V Batteries
- Single Patient Reusable Turbine
- Plastic reusable mouthpiece
- User manual
- App for Smartphone (iOS and Android)

Compatible SOFTWARE

MIR SPIROBANK APP

Mobile App (iOS and Android), for real time **Spirometry** test, directly on your Smartphone via Bluetooth

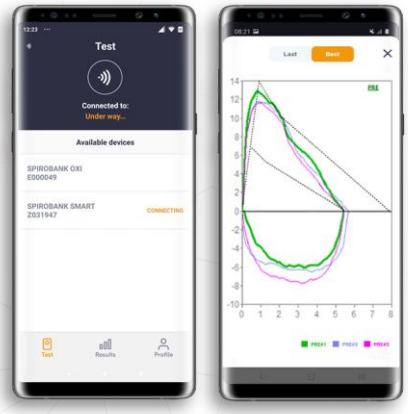
Add **Oximetry** results manually on the APP

GET IT ON Google Play

Download on the App Store

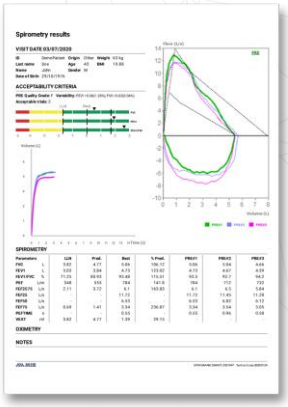
REAL TIME TEST

Spirometry: PEF, FVC, FEV1, FEV1/FVC, FEF25/75, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50



MEDICAL REPORT

Professional PDF report Including Acceptabilty Messages, Quality Control Grade, Acceptable Trials, Variability of FEV1 and FVC, Pictograms

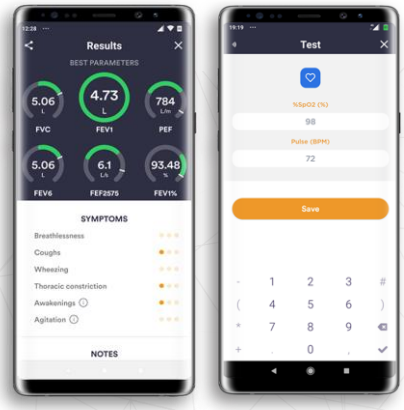


SHARE RESULTS

Share results in PDF With anyone at anytime via eMail, Whatsapp, SMS, Cloud, Drive Bluetooth, Airdrop and other Apps

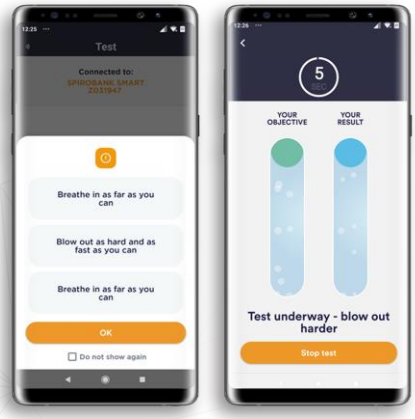
PERSONAL TREND

E-diary, symptoms and notes can be added for each test. Oximetry results can also be added manually on the App



INCENTIVE

Real time animation on Smartphone, to improve personal compliance during the test



Compatible TURBINES

		Mouthpiece	Turbine Disinfection	Turbine Calibration	Packaging	Antiviral Filter
Single Patient Reusable Turbine		Included Reusable	Not required	Not required	Individually sealed: 1 unit / box	Not required
flowMIR ™ Disposable Turbine		Included Disposable	Not required	Not required	Individually sealed: 60 or 10 units / box	Not required

PLAY VIDEO

SCIENTIFIC PUBLICATIONS

TECHNICAL datasheet

PRODUCT CODE 911105P51

Technical specification

Width	49 mm
Length	109 mm
Thickness	21 mm
Weight	60.7 g (batteries included)

Turbine

Reusable Turbine with plastic Mouthpiece (code 910013)

Disposable Turbine (code 910004)

Power supply	2 batteries AAA 1.5 V
Consumption	max 12 mA Stand by 8 µA medium
Backup battery voltage	none
Batteries charger	none
Autonomy	5-10 years (Stand by)
Connectivity	Bluetooth® 4.0 for S/N < Z099220
	Bluetooth® 5 ready for S/N > Z099220
Mouthpieces	Ø 30 mm (1.18 inch)
Type of electrical protection	Internally powered
Safety level for shock hazard	Type BF Apparatus
IP protection level	IP22
Conditions of use	Apparatus for continuous use

Storage conditions	Temperature:	MIN -25 °C, MAX +70 °C
	Humidity:	MIN 10% RH; MAX 93%RH
Operating Conditions	Temperature:	MIN +5 °C, MAX +40 °C
	Humidity:	MIN 10% RH, MAX 93%RH
Shipping conditions	Temperature:	MIN -25 °C, MAX + 70 °C
	Humidity:	MIN 10% RH; MAX 93%RH

Applicable standards	IEC 60601-1:2005+Amd1:2012 EN 60601-1-2: 2015 EN ISO 14971: 2019 ISO 10993-1: 2018 2011/65/UE Directive EN ISO 15223:2016 IEC 60601-1-6:2010+Amd2013 IEC 60601-1-11: 2015 ATS/ERS Guidelines ISO 26782: 2009 ISO 23747: 2015

Spirometry

Flow sensor	bi-directional digital turbine
Flow range	±16L/s
Volume accuracy	±2.5% or 0,05 L
Flow accuracy	±5.0% or 0,20 L/s
Dynamic resistance	<0.5 cm H2O/L/s
Temperature sensor	none
Test available	FVC,
Measured parameters	FEV1, PEF, FVC, FEV1/FVC ratio, FEV6, FEF2575
Additional parameters available with F/V version	FIVC, FIV1, PIF FEF25, FEF50, FEF75, EVol, FEV05, FEV075, FEV2, FEV3, FET, PEF Time
Memory capacity	the application on the smart phone memorizes data

Certificates & Registrations

CE 0476	MED 9826 by Kiwa-Cermet
FDA 510(k)	K072979
CND code	Z12150102
GMDN code	46906

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