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®







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 selfmanagement of lung conditions, always included for iOS and Android







DISTINCTIVE features



(1)





SPIROMETRY GUIDELINES

Suitable for all ages from 5 to 93 years and multiethnic 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

 Plastic reusable mouthp

- √ 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

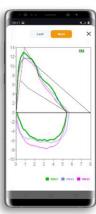
Add **Oximetry** results manually on the APP



REAL TIME TEST

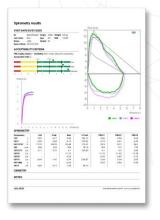
Spirometry: PEF, FVC, FEV1, FEV1/FVC, FEF25/75, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50





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

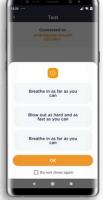
E-diary, symptoms and notes can be added for each test.
Oximetry results can also be added manually on the App





INCENTIVE

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





Compatible **TURBINES**

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







Also available in **MORE CONFIGURATIONS**









Technical Specification	Spirobank Smart	Spirobank Oxi	Smart One	Smart One OXI
TYPE OF SPIROMETER	App-Based, for Remote	App-Based, for Remote	App-Based, for Personal Care	App-Based, for Personal
TIPE OF SPIROMETER	Patient Monitoring	Patient Monitoring, with Oximetry Option		Care, with Oximetry Option
COMPATIBLE TURBINES	flowMIR™ Disposable Turbine, Single Patient Reusable Turbine	flowMIR™ Disposable Turbine, Single Patient Reusable Turbine	Single Patient Reusable Turbine	Single Patient Reusable Turbine
COMPATIBLE SOFTWARES	MIR Spirobank App, iSpirometry App	MIR Spirobank App	Smart One App	Smart One App
EXTERNAL CONTROL	Real time test on Smartphone screen. No internal memory, no display. Data are not stored in the device memory. Connect to your Smartphone via Bluetooth	Real time plethysmographic curve and test result on SmartPhone screen. No internal memory, no display. Data are not stored in the device memory Connect to your Smartphone via Bluetooth	Real time test on SmartPhone/Tablet screen. No internal memory, no display. Data are not stored in the device memory. Connect to your Smartphone/Tablet via Bluetooth	Real time plethysmographic curve and test result on SmartPhone/Tablet screen. No internal memory, no display. Data are not stored in the device memory. Connect to your Smartphone/Tablet via Bluetooth Smart BLE 4.0
EHR CONNECTIVITY	Ready-to-Connect with 3rd party Apps for Professional and Personal Care and Clinical Trials	Ready-to-Connect with 3rd party Apps for Professional and Personal Care and Clinical Trials	Ready-to-Connect with 3rd party Apps for Professional and Personal Care and Clinical Trials	Ready-to-Connect with 3rd party Apps for Professional and Personal Care and Clinical Trials
REAL TIME TEST	Simple and intuitive App for Smartphone, always included for iOS and Android E-diary, symptoms and notes can be added for each test. Test Results can be shared in PDF (via Whatsapp, E-mail, other Apps), and printed directly (via Bluetooth printer). Real time animation, to help performing a good test. Easy to read Spirometry Guidelines for test compliance.	Simple and intuitive App for Smartphone, always included for iOS and Android E-diary, symptoms and notes can be added for each test. Test Results can be shared in PDF (via Whatsapp, E-mail, other Apps), and printed directly (via Bluetooth printer). Real time animation, to help performing a good test. Easy to read Spirometry Guidelines for test compliance. Real time plethysmographic curve.	Simple and intuitive App for Smartphone and Tablet, always included for iOS and Android E-diary, symptoms and notes can be added for each test. Test Results can be shared in PDF (via Whatsapp, E-mail, other Apps), and printed directly (via Bluetooth printer). Real time animation, to help performing a good test. Easy-to-read graphic trends for self-assessment.	Simple and intuitive App for Smartphone and Tablet, always included for iOS and Android E-diary, symptoms and notes can be added for each test. Test Results can be shared in PDF (via Whatsapp, E-mail, other Apps), and printed directly (via Bluetooth printer). Real time animation, to help performing a good test. Easy-to-read graphic trends for self-assessment. Real time plethysmographic curve.
MEASURED PARAMETERS	Spirometry Parameters: PEF, FVC, FEV1, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FET, FEF25, FEF50, FIVC, FIV1, PIF, FEV3, FEV05, FEV075, FEV2 on MIR Spirobank App: PEF, FEV1, FVC, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50 on iSpirometry App: PEF, FVC, FEV1, FVC, FEF2575, FEV6	Spirometry Parameters: PEF, FEV1, FVC, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FET, FEF25, FEF50, FIVC, FIV1, PIF, FEV3, FEV05, FEV075, FEV2 Oximetry Parameters: %Sp02min, %Sp02man, %Sp02man, %Sp02man, %Sp02man, BPMmax, Ttotal on MIR Spirobank App: Spirometry Parameters: PEF, FEV1, FVC, FEV1/FVC, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50 Oximetry Parameters: Sp02 (%), Pulse (BPM)	Spirometry Parameters: PEF, FEV1	Spirometry Parameters: PEF, FEV1 Oximetry Parameters: %Sp02min, %Sp02mean, %Sp02max, BPMmin, BPMmean, BPMmax, Ttotal on MIR Smart One App: Spirometry Parameters: PEF, FEV1 Oximetry Parameters: Sp02 (%), Pulse (BPM)

I EURINICAL 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 none

Batteries charger

5-10 years (Stand by) Autonomy 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 Internally powered

protection Safety level for Type BF Apparatus

shock hazard 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 MIN +5 °C. Temperature:

MAX +40 °C MIN 10% RH, Humidity:

MAX 93%RH

Shipping conditions MIN -25 °C, Temperature:

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 ±5.0% or 0,20 L/s Flow accuracy 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 FIVC, FIV1, PIF FEF25, FEF50, available with

F/V version

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