SMART ONE™

App-Based Spirometer

The simplest device for Personal Care.
Real time test available on
Smartphone and Tablet
via Bluetooth Smart 4.0

Scientech

SMART ONE™

MAIN features

AUTOMATIC PAIR AND PLAY

Automatic pairing via Bluetooth BLE. Real-time test result on your Smartphone and Tablet

MEASURED PARAMETERS

Spirometry Parameters: PEF, FEV1

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)

PERSONAL CARE

Ideal in the self-management of Asthma, COPD, CF and other chronic lung disease

MEDICAL REPORT

Share with anyone at anytime via eMail, Whatsapp, SMS, Cloud, Drive and other Apps

COVID-19 PANDEMIC

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

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

Always INCLUDED

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

Scientech

SMART ONE ™

Compatible SOFTWARE

MIR SMART ONE APP

Mobile App (iOS and Android), for real time spirometry test, directly on your Smartphone and Tablet via Bluetooth Smart

GET IT ON Google Play

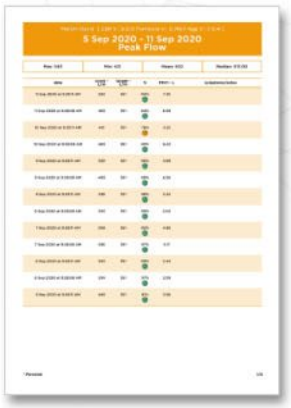
Download on the App Store

REAL TIME TEST

Spirometry: PEF, FEV1

MEDICAL REPORT

PDF report available for selectable date range. Include test results, traffic light indicators for PEF and e-Diary.



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 scoring and notes can be added for each test. Graphic trends available for self-monitoring of PEF and FEV1

INCENTIVE

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

Compatible TURBINE

	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

Also available in MORE CONFIGURATIONS




Technical Specification	Smart One	Smart One OXI	Spirobank Smart	Spirobank Oxi
TYPE OF SPIROMETER	App-Based, for Personal Care	App-Based, for Personal Care, with Oximetry Option	App-Based, for Remote Patient Monitoring	App-Based, for Remote Patient Monitoring, with Oximetry Option
COMPATIBLE TURBINES	Single Patient Reusable Turbine	Single Patient Reusable Turbine	flowMIR™ Disposable Turbine, Single Patient Reusable Turbine	flowMIR™ Disposable Turbine, Single Patient Reusable Turbine
COMPATIBLE SOFTWARES	Smart One App	Smart One App	MIR Spirobank App, iSpirometry App	MIR Spirobank App
EXTERNAL CONTROL	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 Smart BLE 4.0	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	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 Smart BLE 4.0	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 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 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.	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.
MEASURED PARAMETERS	Spirometry Parameters: PEF, FEV1	Spirometry Parameters: PEF, FEV1 Oximetry Parameters: %SpO2min, %SpO2mean, %SpO2max, BPMmin, BPMmean, BPMmax, Ttotal on MIR Smart One App: Spirometry Parameters: PEF, FEV1 Oximetry Parameters: SpO2 (%), Pulse (BPM)	Spirometry Parameters: PEF, FEV1, FVC, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FET, FEF25, FEF50, FIVC, FIV1, PIF, FEV3, FEV05, FEV075, FEV2 Oximetry Parameters: %SpO2min, %SpO2mean, %SpO2max, BPMmin, BPMmean, BPMmax, Ttotal on MIR Spirobank App: Spirometry Parameters: PEF, FEV1, FVC, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50 Oximetry Parameters: SpO2 (%), Pulse (BPM)	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, FEV1/FVC, FEF2575, FEV6

Rev.4

TECHNICAL datasheet

PRODUCT CODE 911100

Technical specification

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

Turbine

Single Patient Reusable Turbine with Mouthpiece (code 910013)

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
Connectivity	Bluetooth®4.0
Mouthpieces	Ø 30 mm (1.18 inch)
Type of electrical protection	Internal power supply
Safety level for shock hazard	Type BF Apparatus
Conditions of use	Apparatus for continuous use
Conditions of storage	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
Peak Flow accuracy	±10% or 0,33 L/s
Dynamic resistance	<0.5 cm H2O/L/s
Temperature sensor	none
Test available	Peak Flow
Measured parameters	FEV1, PEF
Memory capacity	the application on the smart phone memorizes data

Certificates & Registrations

CE 0476	MED 9826
FDA 510 (k)	K181666
Health Canada	96378 (class II)
CND code	Z12150102
GMDN code	46906
Ministry of Health	1380054/R

Subject to Change

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