Personal Smart

SMART ONE™

App-Based Spirometer

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

MIR
MEDICAL INTERNATIONAL RESEARCH

www.spirometry.com

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)

Compatible SOFTWARE

MIR SMART ONE APP

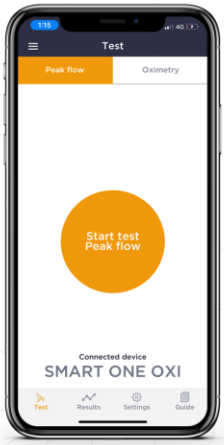
Mobile App (iOS and Android), for real time spirometry test, directly on your Smartphone and Tablet via Bluetooth Smart

GET IT ON Google Play

Download on the App Store

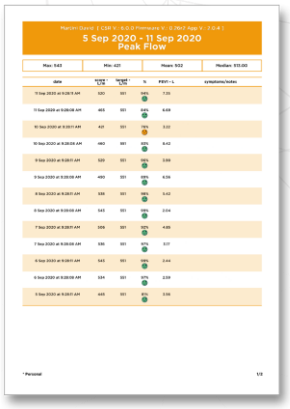
REAL TIME TEST

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

Single Patient Reusable Turbine

Mouthpiece	Turbine Disinfection	Turbine Calibration	Packaging	Antiviral Filter
Included Reusable	Not required	Not required	Individually sealed: 1 unit / box	Not required

PLAY VIDEO

SCIENTIFIC PUBLICATIONS

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

MIR
MEDICAL INTERNATIONAL RESEARCH

ITALY
MIR Head Office
Via del Maggiolino, 125
00155 Roma
Tel. +39 06 22 754 777
Fax +39 06 22 754 785
Mir.spirometry.com

USA
MIR USA, Inc.
5462 S. Westridge Drive
New Berlin, WI 53151
Phone +1 (262) 565-6797
Fax +1 (262) 364-2030

FRANCE
MIR Local Office
Jardin des Entreprises,
290, Chemin de Saint Dionisy
30980 LANGLADE (France)
Phone +33 (0)4 66 37 20 68
Fax +33 (0)4 84 25 14 32