

Personal Smart

SMART ONETM OXI

App-Based Spirometer with
embedded Oximeter.

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



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

Oximetry Parameters:
%SpO2min, %SpO2mean,
%SpO2max, BPMmin,
BPMmean, BPMmax, Ttotal



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 cardiorespiratory 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)



REAL-TIME OXIMETRY

Innovative reflectance pulse-oximetry sensor (Touch). Easy to use and accurate.



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

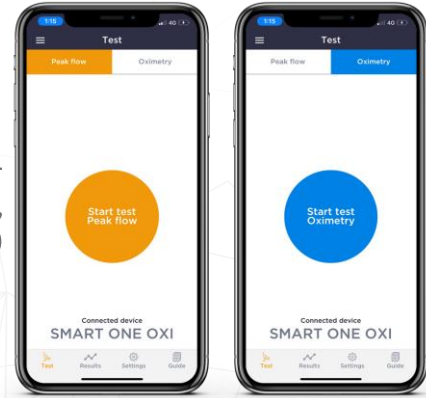
MIR SMART ONE APP

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



REAL TIME TEST

Spirometry: PEF, FEV1
Oximetry: SpO2% (mean), Pulse BPM (mean)



MEDICAL REPORT

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

Date	Time	PEF	FEV1	SpO2	Pulse	Notes
5 Sep 2020	11:00 AM	440	1.82L	97%	70 bpm	
5 Sep 2020	11:00 AM	440	1.82L	97%	70 bpm	
5 Sep 2020	11:00 AM	440	1.82L	97%	70 bpm	
5 Sep 2020	11:00 AM	440	1.82L	97%	70 bpm	
5 Sep 2020	11:00 AM	440	1.82L	97%	70 bpm	
5 Sep 2020	11:00 AM	440	1.82L	97%	70 bpm	
5 Sep 2020	11:00 AM	440	1.82L	97%	70 bpm	
5 Sep 2020	11:00 AM	440	1.82L	97%	70 bpm	
5 Sep 2020	11:00 AM	440	1.82L	97%	70 bpm	
5 Sep 2020	11:00 AM	440	1.82L	97%	70 bpm	

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, FEV1 and SpO2



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 911120

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)

Mouthpiece	Ø 30 mm (1.18 inches)
Power supply	2 batteries AAA 1.5 V
Consumption	max 12 mA

Autonomy	5-10 years (Stand by)
IP protection level	IP22
Connectivity	Bluetooth® 4.0
Type of electrical protection	Internally powered

Safety level for shock hazard	Type BF Apparatus
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	ATS/ERS: 2005, 2019 Update
	ISO 26782: 2009
	ISO 23747: 2015
	ISO 14971: 2019
	ISO 10993-1: 2018
	2011/65/UE Directive

Spirometry

Flow sensor	bi-directional digital turbine
Flow range	16L/s (960 L/m)
Volume range	10 L
Volume accuracy	±2.5% or 0,05 L
Peak Flow accuracy	±10% or 0,33 L/s
Dynamic resistance	<0.5 cm H ₂ O/L/s (@ 12 L/s)
Temperature sensor	none
Available test	Peak Flow
Measured parameters	FEV1, PEF

Memory capacity	the application on the remote device (smartphone/tablet) memorizes data
-----------------	---

Oximetry

Measuring method	double wavelength
%SpO ₂ range	70%-100%
%SpO ₂ accuracy	±1.9%
Average number of beats for the calculation % SpO ₂	12 beats
Pulse Rate range	30-200 BPM
Pulse Rate accuracy	±3%
Average interval for BPM calculation	12 seconds
Quality signal indicator	0-8 lines
Available tests	spot
Measured parameters	%SpO ₂ MIN, %SpO ₂ MEAN, %SpO ₂ MAX, BPM _{MIN} , BPM _{MEAN} , BPM _{MAX} , T _{TOTAL}
Wavelength sensors	Red 660 nm Infrared 880nm

Maximum optical output power	1.2 mW
------------------------------	--------

Certification & registration

CE 0476	MED 9826
FDA 510 (k)	pending
Health Canada	pending
CND Code	Z12150102
GMDN Code	46906

EN ISO 15223: 2016
IEC 60601-1: 2005+Amd1:2012
EN 60601-1-2: 2015
IEC 60601-1-6: 2010+Amd2013
EN 60601-1-11: 2015
ISO 80601-2-61: 2017



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