SPIROBANK SMART
App-Based Spirometer

The simplest device for accurate Remote Patient Monitoring and Homecare. Real time test available on Smartphone via Bluetooth Smart 4.0

www.spirometry.com
**MAIN features**

**AUTOMATIC PAIR AND PLAY**
Automatic pairing via Bluetooth BLE. Real-time test result on your Smartphone

**MOBILE APP INCLUDED**
Intuitive App for self-management of lung conditions, always included for iOS and Android

**MEASURED PARAMETERS**
Spirometry Parameters: PEF, FEV1, FVC, FEV1/FVC, FEF25/75, FEV6, VEXT, DTPEF, FEF75, FET, FEF25, FEF50, FIVC, FIV1, PIF, FEV3, FEV05, FEV075, FEV2

**COMPLIANCE ATS/ERS 2019**
And other Standards including ISO 26782 (for Spirometry), ISO 23747 (for PEF), and more. CE0476, FDA 510 (k)

**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

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

**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

### 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 Smart 4.0
Add Oximetry results manually on the APP

---

**REAL TIME TEST**
Spirometry: PEF, FVC, FEV1, FEV1/FVC ratio, FEF25/75, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50

---

**MEDICAL REPORT**
Professional PDF report
Including Acceptability 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**

<table>
<thead>
<tr>
<th>Single Patient Reusable Turbine</th>
<th>Mouthpiece</th>
<th>Turbine Disinfection</th>
<th>Turbine Calibration</th>
<th>Packaging</th>
<th>Antiviral Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Included Reusable</td>
<td>Not required</td>
<td>Not required</td>
<td>Individually sealed: 1 unit / box</td>
<td>Not required</td>
</tr>
<tr>
<td>flowMIR™ Disposable Turbine</td>
<td>Included Disposable</td>
<td>Not required</td>
<td>Not required</td>
<td>Individually sealed: 60 or 10 units / box</td>
<td>Not required</td>
</tr>
</tbody>
</table>

---

**PLAY VIDEO**

**SCIENTIFIC PUBLICATIONS**
# Technical Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>49 mm</td>
</tr>
<tr>
<td>Length</td>
<td>109 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>21 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>60.7 g (batteries included)</td>
</tr>
<tr>
<td>Turbine</td>
<td>Reusable Turbine with plastic Mouthpiece (code 910013)</td>
</tr>
<tr>
<td></td>
<td>Disposable turbine (code 910004)</td>
</tr>
<tr>
<td>Power supply Consumption</td>
<td>2 batteries AAA 1.5 V</td>
</tr>
<tr>
<td></td>
<td>max 12 mA</td>
</tr>
<tr>
<td>Backup battery voltage</td>
<td>none</td>
</tr>
<tr>
<td>Batteries charger</td>
<td>none</td>
</tr>
<tr>
<td>Autonomy</td>
<td>5-10 years (Stand by)</td>
</tr>
<tr>
<td>Connectivity</td>
<td>Bluetooth® 4.0</td>
</tr>
<tr>
<td>Mouthpieces</td>
<td>Ø 30 mm (1.18 inch)</td>
</tr>
<tr>
<td>Type of electrical protection</td>
<td>Internally powered</td>
</tr>
<tr>
<td>Safety level for shock hazard</td>
<td>IP22</td>
</tr>
<tr>
<td>IP protection level</td>
<td></td>
</tr>
<tr>
<td>Conditions of use</td>
<td>Apparatus for continuous use</td>
</tr>
<tr>
<td>Storage conditions</td>
<td>Temperature: MIN -25 °C, MAX +70 °C</td>
</tr>
<tr>
<td></td>
<td>Humidity: MIN 10% RH, MAX 93%RH</td>
</tr>
<tr>
<td>Operating Conditions</td>
<td>Temperature: MIN +5 °C, MAX +40 °C</td>
</tr>
<tr>
<td></td>
<td>Humidity: MIN 10% RH, MAX 93%RH</td>
</tr>
<tr>
<td>Shipping conditions</td>
<td>Temperature: MIN -25 °C, MAX +70 °C</td>
</tr>
<tr>
<td></td>
<td>Humidity: MIN 10% RH, MAX 93%RH</td>
</tr>
</tbody>
</table>

## Applicable Standards
- 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: ±16 L/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: FIVC, FIV1, PIF FEF25, FEF50, FEF75, EVol, FEV05, FEV075, FEV2, FEV3, FET, PEF Time
- F/V version: the application on the smart phone memorizes data

## Certificates & Registrations
- CE 0476: MED 9826 by Kiwa-Cermet
- K072979
- CND code: Z12150102
- GMDN code: 46906

---

**ITALY**
MIR Head Office
Via del Maggiorino, 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 Dionysy
30980 LANGLEADE (France)
Phone +33 (0)4 66 37 20 68
Fax +33 (0)4 84 25 14 32