

# SMART ONE

Smart phone enabled homecare spirometer



The Smart One® is a low-cost, home spirometer offering a basic level of screening that utilises bluetooth technology to connect directly to a smart phone. Using the Smart One® app, users can record Peak Flow and FEV1 measurements in the comfort of their own home with the ability to send results electronically to their healthcare advisor.

It is designed to be used as a self-monitoring tool for those with a respiratory condition and as a wellness product for the health conscious.

## Basic screening with real spirometry technology.

Although the Smart One® only measures Peak flow and FEV1, it uses exactly same technology as a diagnostic spirometer. As a result, the Smart One offers a higher level of performance and accuracy than conventional peak flow meters.

Thanks to the simplicity of the Smart One® app, the user is able to easily choose between which test they would like to perform, customise settings, track results as well as the ability to send test data electronically to their healthcare specialist.

## The intuitive smart one app is kept simple but smart.

Inputting the user's age, origin, weight, height and sex in the settings menu allows the app to calculate a target value and set pre-determined ranges for the traffic light health indicator. When a user conducts a peak flow test, the target value is displayed as an incentive.

After the test is complete, the user is able to apply notes about their symptoms either from a pre-defined list or typed in manually. Test results are stored on the app with the ability to track and trend over set periods.

## KEY FEATURES

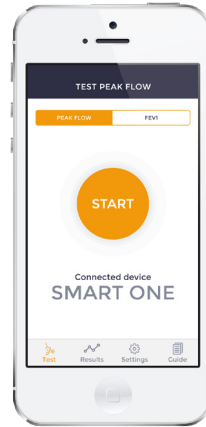
- **Smart phone based home spirometry**  
A more convenient way of self-monitoring and management of respiratory illnesses measuring Peak Flow and FEV1.
- **Ultimate alternative to a conventional peak flow meter**  
Utilises same technology as that found in diagnostic spirometers
- **Traffic light health indicator**  
Indicator to determine a good quality test
- **Target values for patient compliance**  
User profile information is used to set a benchmark value to aim for when performing a test.
- **Results are stored and can be shared**  
Track progress over time. Easily send test results to a healthcare professional

## TECHNICAL DATA

Device category	Digital peak flow/FEV1 meter
Spirometry parameters	FEV1, PEF
Maximum volume measured	10 L
Flow range	± 960 L/minute
Volume accuracy	± 3%
Flow accuracy	± 5%
Dynamic resistance at 12 L/s	< 0.5cm H <sub>2</sub> O/L/s
Data transmission	Bluetooth® Smart (4.0 or higher)
Power	2 x 1.5v AAA alkaline batteries
Dimensions	109 x 49 x 21 mm
Weight	60.7g (with battery)

## ORDERING INFORMATION

MR-911100	MIR Smart One® homecare spirometer
MR-910002	Replacement re-usable turbine
MR-910004	Disposable turbines (Box of 50)
881002	One-way valve adult mouthpieces for re-usable turbine (Box of 200)



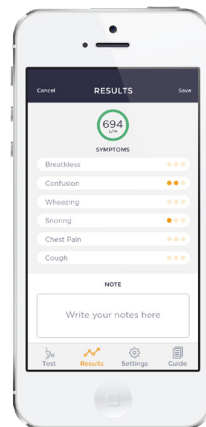
### Simple and easy to use interface.

From the main screen, the user is able to choose which test they would like to conduct.



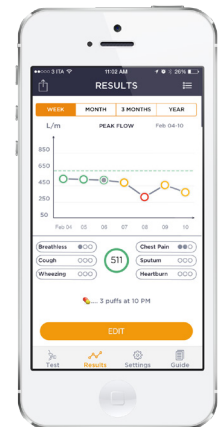
### Target value vs. live test incentive.

To ensure the test is performed to the best of the user's ability, an incentive target value is shown on the live test screen. This is determined by adding details about the user's age, origin, weight, height and sex in the settings.



### Record results. Add notes.

Results displayed are circled with a traffic light health indicator. In this case, the green circle indicates the result is in range of the target value. After the test, the user can note their symptoms (and the severity) from a pre-defined list or apply their own notes manually.



### Track progress over time

A history of test results can easily be viewed by tapping on the results icon. Tests are plotted on a graph using the traffic light health indicator. Easily toggle between time periods.

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