



n d d EasyOne Air

Handheld, portable Spirometer using ultrasonic technology.
Highly versatile diagnostic solution for accurate and
reliable respiratory testing. With or without a PC.

ndd EasyOne Air

Powerful, diagnostic ultrasonic Spirometry. In the palm of your hand.

The EasyOne Air is an easy to operate and highly versatile handheld diagnostic Spirometer.

It's large colour touchscreen and intuitive operation allows the EasyOne Air to be conveniently used as a stand-alone device, with large memory storage and direct-to-printer connectivity. It can also be connected to a computer via USB or Bluetooth using the licence-free EasyOne Connect PC software.

EasyOne Air utilises ultrasonic flow sensor technology that is highly accurate and maintenance-free.



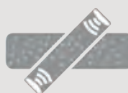
KEY FEATURES



High resolution touchscreen



Store up to 10,000 tests



Ultrasonic flow sensor technology



Bluetooth & USB PC connectivity



Test quality feedback



No maintenance required

The EasyOne Air has an easy to follow workflow making Spirometry simple to conduct. Patient data can easily be entered onto the device using the touchscreen keypad or recalled from memory.

The Spirometer offers a range of manouvers to choose from including FVC, FVL, Tidal FVC, Tidal FVL, SVC and MVV; measuring a wide range of selectable parameters. It also features pre and post bronchodilator testing.

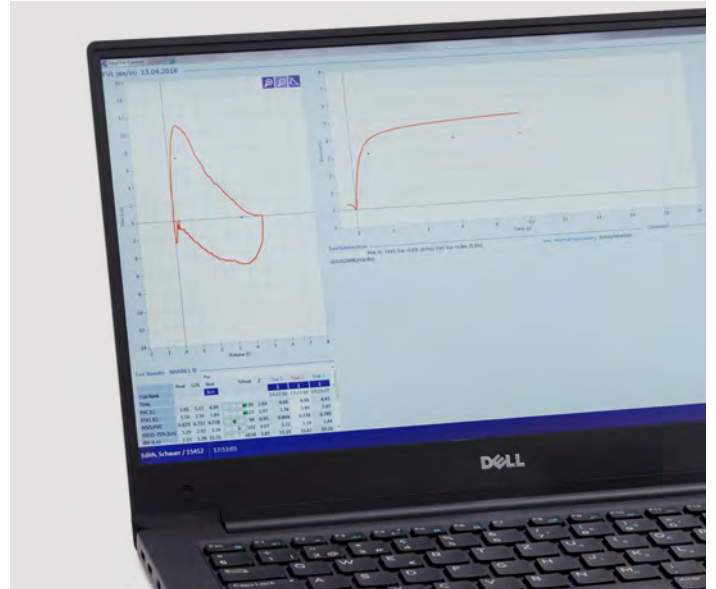
When a patient performs a trial, the flow volume and volume time curves are displayed in real-time. The EasyOne Air gives immediate automatic feedback after each trial. It lets the user know if the trial was performed well or displays a prompt as to what is needed to improve with the next trial. It provides accurate grading at the end of each test as well as information for possible diagnosis.

Make EasyOne Air **work for you**

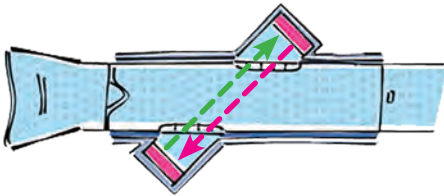
The EasyOne Air has been designed to be used as a stand-alone device with PC connectivity options - giving the user total flexibility. Test results stored on the device can be printed without the need of a computer by connecting it directly to a compatible printer.

The EasyOne Connect PC software, that comes included, is highly useful in situations where users are testing more than one patient in a day. Patient data can be transferred to the device prior to conducting a test in order to save time. Results can be downloaded from the device and easily exported to the patient's electronic record. The PC software also facilitates real-time testing via Bluetooth or USB.

The EasyOne Connect software is licence-free and can be integrated with popular patient record systems including EMIS and SystemOne.



EasyOne Air **doesn't** require calibrating



Thanks to ndd's TrueFlow ultrasound technology, the device doesn't require calibration or maintenance. However, it can be verified using a calibration syringe in accordance with the ATS/ERS guidelines. This technology eliminates problems associated with traditional methods of flow measurement. There are no moving parts, no codes to enter and no screens to catch sputum. The ultrasonic flow measurement is independent of gas composition, pressure, temperature, and humidity thus eliminating errors due to these variables.

BENEFITS OF USING EASYONE AIR

- **It's perfect for almost any clinical setting**
From using it on the ward to testing patients in the community. It can be used almost anywhere. With or without a PC.
- **Great for infection control**
Unlike turbine Spirometers, air passes through the device without any screens to catch sputum. No intensive cleaning is required.
- **Low cost of ownership without the servicing costs**
The sensor has no moving parts therefore it doesn't require calibration nor any maintenance
- **Highly accurate flow measurement using reliable technology**



Technical Specification

<p>Device category Diagnostic Spirometer</p> <p>Size 87 x 155 x 36 millimeters (3.4 x 6.1 x 1.4 inches)</p> <p>Weight Without battery: 302 grams With battery: 356 gram</p> <p>Parameters FVC Forced expiratory vital capacity test: BEV, EOTV, FEF10, FEF25, FEF25-75, FEF25-75/FVC, FEF40, FEF50, FEF50/FVC, FEF60, FEF75, FEF80, FET, FET25-75, FEV.25, FEV.5, FEV.5/FVC, FEV.75, FEV.75/FVC, FEV1, FEV1/FEV6, FEV1/FVC, FEV3, FEV3/FVC, FEV6, FVC, FVC6, MEF20, MEF25, MEF40, MEF50, MEF60, MEF75, MEF90, MMEF, PEF, PEFT, t0</p> <p>Flow volume loop test BEV, EOTV, FEF10, FEF25, FEF25-75, FEF25-75/FVC, FEF40, FEF50, FEF50/FVC, FEF60, FEF75, FEF80, FET, FET25-75, FEV.25, FEV.5, FEV.5/FVC, FEV.75, FEV.75/FVC, FEV1, FEV1/FEV6, FEV1/FV1, FEV1/FVC, FEV3, FEV3/FVC, FEV6, FIF25, FIF50, FIF50/FEF50, FIF75, FIV.25, FIV.5, FV1, FVC, FVC6, MEF20, MEF25, MEF40, MEF50, MEF60, MEF75, MEF90, MIF25, MIF50, MIF75, MMEF, PEF, PEFT, t0</p> <p>Maximum voluntary ventilation test MVV, MVV6, MVVtime, Rf</p> <p>Slow vital capacity test ERV, IC, IRV, Rf, VC, VCex, VCin, VCmax, VT</p>	<p>Measuring accuracy Volume: $\pm 2\%$ or 0.050 L Flow, except PEF: $\pm 2\%$ or 0.020 L/s PEF: $\pm 5\%$ or 0.200 L/s MVV: $\pm 5\%$ or 5 L/min</p> <p>Measuring resolution Volume: 1 mL Flow: 4 mL/s</p> <p>Measuring range Volume: ± 12 L Flow: ± 16 L/s</p> <p>Resistance 0.3 cm H₂O/L/s at 16 L/s</p> <p>Measurement principle Ultrasonic transit-time measurement</p> <p>Display 320 x 240 LCD display</p> <p>Input method Touchscreen</p> <p>Test storage capacity Up to 10,000 tests</p> <p>Languages English, French, German, Spanish</p> <p>Data management EasyOne Connect PC software</p> <p>Printing option Direct to printer or with EasyOne Connect PC software</p> <p>Export/EMR HL7, XML, GDT (with EasyOne Connect PC software)</p> <p>Hardware interface USB, Bluetooth</p> <p>Age range for patients Spirometry >4 years</p> <p>Respiratory tube Disposable EasyOne Flow Tube respiratory tube</p> <p>Power supply Rechargeable lithium-ion battery, USB power supply</p> <p>Voltage (EasyOne Air) Input 4.5 V to 5.5 V Output 3.6 V</p> <p>Power consumption Up to 7.5 W</p>	<p>Appliance class Class II</p> <p>Storage conditions Temperature -20°C to 50°C (-4°F to 122°F) Relative humidity 5% to 90% Atmospheric pressure 500 hPa to 1060 hPa</p> <p>Operating conditions Temperature 0°C to 40°C (32°F to 104°F) Relative humidity 5% to 90% Atmospheric pressure 700 hPa to 1060 hPa</p>
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Ordering Information

831750 ndd EasyOne Air Spirometer
Includes: ndd EasyOne Air Spirometer Unit, rechargeable Battery Pack, USB Docking Cradle, Spirometer to Printer USB cable (micro-B 5 pin/type B Cable), Spirometer to PC USB cable (micro-B 5 pin/type A 2.0 cable), Power Plug and UK Adaptor, Bluetooth USB Receiver for PC, 4 x Flow Tubes, 1 x Noseclip, Product Documentation & Easy One Connect PC Software on USB key, Quick Start Guide

Accessories & Consumables

831203B	EasyOne Flow Tubes (Box/50)
831204B	EasyOne Flow Tubes (Box/200)
831205B	EasyOne Flow Tubes (Box/500)
831751	EasyOne Flow Tube Adaptor for 3 litre calibration syringe
831752	Cradle for EasyOne Air
831753	Battery Pack for EasyOne Air
831754	EasyOne Air to Printer USB cable
831755	EasyOne Air to PC USB cable
831756	EasyOne Air Power Plug and UK adaptor

USB Cradle
(831752)



Flow Tubes
Individually wrapped for optimum infection control. Available in boxes of 50 (831203B), 200 (831204B) or 500's (831205B)

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