



THE EASYONE SPIROMETER IS THE NUMBER ONE PORTABLE SPIROMETER USED IN AUSTRALIAN HOSPITALS

# EasyOne®

The New Standard  
in Spirometry

The EasyOne Spirometer utilises digital ultrasonic flow measurement technology, which ensures accurate results, repeatable performance and quality control with no moving parts and does not require calibration or maintenance.



ULTRASONIC FLOW MEASUREMENT ELIMINATES PROBLEMS ASSOCIATED WITH TRADITIONAL METHODS OF FLOW MEASUREMENT AND MAKES THE EASYONE SPIROMETER A FAST, RELIABLE AND ACCURATE DIAGNOSTIC DEVICE

*"This study supports the Manufacturer's claim that the **EasyOne Spirometer** maintains its calibration during routine clinical use in general practice and does not require daily calibration as specified in international spirometry guidelines." <sup>1</sup>*

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*To optimize quality control in the BOLD study, sites are required to use the **EasyOne Spirometer**, which was chosen because it provides a high degree of accuracy, robustness, portability, and ease of storage. It can be used easily in the field and where there is no electric power available—it operates on batteries and requires no calibration with a 3-liter syringe. The **EasyOne Spirometer** has been approved by the BOLD pulmonary function reading center as meeting predetermined performance criteria relating to reliability of measurement, suitability for field use, and ease of access to data." <sup>2</sup>*



## Easy on-PC

### New Standard in PC-based Spirometry

The Easy on-PC is designed for Real-Time Spirometry on a PC or laptop computer and is perfectly suited to General Practice, Specialist Practice and other Clinic based solutions. The Easy on-PC is compatible with the **Medical Director** software.

The Easy on-PC features Bronchial Provocation Testing (Challenge Testing) for Mannitol, Methacholine and Hypertonic Saline in the diagnosis of Asthma and for Dive Medical Fitness Assessments.

The standard measured parameters are **FVC, FEV1, FEV/FVC, FEV6, FEV1/FEV6, FEF25-75, FEF25, FEF50, FEF75, PEF, FIVC** and **PIF** with each individual parameter able to be selected or deselected for testing and reporting.

FVL Test (Additional to FVC): **FIVC, PIF, FIF25, FIF50, FIF75.**  
 SVC Test: **VCmax, VCin, VCex, IC, ERV, VT, Rf.** MVV Test: **MVV and BPM.**

In addition you can also choose to select and measure the following parameters particularly suitable for Paediatric testing: **FEV0.5, FEV0.5/FVC, FEV0.75, FEV0.75/FVC** and many others.

*\*Note that the Easy on-PC has no stand-alone capability. It must be used with a PC or laptop computer.*

#### Features

- Real Time PC guided Spirometry
- MD (Medical Director) Compatible
- No Calibration
- No Maintenance
- Bronchial Provocation for Mannitol, Methacholine, Hypertonic Saline
- Biological Controls (Automatically calculates the Standard Deviation)
- Patient Centred Database
- Tidal Breathing selectable for FVC and FVL
- Inspiratory and expiratory real-time curve
- Trending of patient results over time
- Actualised Fletcher Curve on report
- Real Time Child Incentives ( Balloon, Monkey, Birthday Cake)
- Automatically Zoom Small Spirometry Curves
- Simplified Acceptability Criteria for Children <8 years of age
- Automatic Quality Control user selection for best trial from eight pre and eight post bronchodilator trials
- Free Lifetime Software Upgrades from nnd Website

PRODUCT CODE **ND2700-3**



## EasyOne

### worldSpirometer with USB Cradle and Hewlett Packard Printer

The EasyOne Spirometer with USB Cradle includes a Hewlett Packard Colour Printer for stand-alone use. A4 Spirometry Reports are printed directly to the Hewlett Packard Printer via the USB Cradle without having to utilise or interface with a computer.

This version is well suited to applications where the user must go to the patient i.e. Hospital Wards, Emergency Departments, Pulmonary Rehabilitation Units, Community Health Centres, Field Testing and Sports Medicine where you have multiple users and simplicity is the key.

The measured parameters are: **FVC, FEV1, FEV1/FVC, FEV6, FEV1/FEV6, FEF25-75, FEF25, FEF50, FEF75, PEF, FIVC** and **PIF.** FVL Test (Additional to FVC): **FIVC, PIF, FIF25, FIF50, FIF75.** SVC Test: **VCmax, VCin, VCex, IC, ERV, IRV, VT, Rf.** MVV Test: **MVV and BPM.**

#### Features

- Stand Alone Instrument
- 700 Test Memory
- Direct print to Hewlett Packard Printer (Package includes a HP Office-Jet Printer or a HP Lightweight Portable Printer can be included at additional cost)
- Comprehensive A4 Reports on Plain Paper
- No need for computers (but may be easily linked)
- Flow-volume loop on-screen
- Tidal breathing selectable for flow-volume loop
- Carry your laboratory to the patient without compromising accuracy
- No warm up time, No pre-testing preparation
- No Calibration
- No Maintenance

PRODUCT CODE **ND2001-4**



# EasyOne-line

## worldSpirometer with USB Line Cable and EasyWare Software

The EasyOne Spirometer with USB Line Cable and EasyWare Software allows Real-Time spirometry on a PC or laptop computer. The EasyOne Spirometer can also be used stand-alone and the full results uploaded to the EasyWare Software at a later stage.

The measured parameters are: **FVC, FEV1, FEV1/FVC, FEV6, FEV1/FEV6, FEF25-75, FEF25, FEF50, FEF75, PEF, FIVC and PIF.** FVL Test (Additional to FVC): **FIVC, PIF, FIF25, FIF50, FIF75.** SVC Test: **VCmax, VCin, VCex, IC, ERV, IRV, VT, Rf.** MVV Test: **MVV and BPM.**

### Features

- Real-Time Spirometry on PC or laptop computer with EasyWare Software
- EasyOne spirometer is also portable with 700 Test Memory
- Tidal breathing selectable for flow-volume loop
- Trending of patient results over time
- Child Incentive Screen in EasyWare Software
- Automatic Quality Control with manual override for the selection of best test from 8 pre and 8 post bronchodilator trials in the EasyWare Software
- Automatic Data Synchronisation to the EasyWare software
- No Calibration
- No Maintenance

PRODUCT CODE **ND2001-4S**



# Spirette

## New Standard in Spirometry Consumable for Safety, Accuracy and Convenience

Single patient use application for hygiene, accuracy and convenience. The Spirette contains bacterial filter membranes to prevent cross contamination between patients.

### Features

- Bacterial filter membranes
- Ergonomic oval mouthpiece shape for excellent mouth / lip seal
- The EasyOne ultrasonic sensors are built into the Spirometer and are protected by the Spirette
- Children aged from 4 years can successfully perform high quality spirometry with the Spirette and the EasyOne Spirometer
- Spirettes are available individually wrapped in a box of 500 and a box of 50 or unwrapped, loose in a box of 75

PRODUCT CODE (BOX 50) **ND2050-1**

PRODUCT CODE (BOX 75) **ND2050-6**

PRODUCT CODE (BOX 500) **ND2050-10**

## Specification & Technical Data



Model	Easy on-PC	EasyOne worldspirometer	EasyOne-line
Dimension	PC sensor: 16 x 3 x 7cms	83 x 158 x 43mm	83 x 158 x 43mm
Weight	155g	245g	245g
Cable length	1.8m	n/a	1.8m
Measuring Accuracy: Volume	± 2% or 0.050 l	± 2% or 0.050 l	± 2% or 0.050 l
Measuring Accuracy: Flow	± 2% or 0.020 l/s	± 2% or 0.020 l/s	± 2% or 0.020 l/s
Measuring Accuracy: PEF	± 5% or 0.0200 l/s	± 5% or 0.0200 l/s	± 5% or 0.0200 l/s
Measuring Accuracy: MVV	± 5% or 5 l/min	± 5% or 5 l/min	± 5% or 5 l/min
Resolution: Volume	1 ml	1 ml	1 ml
Resolution: Flow	4 ml/s	4 ml/s	4 ml/s
Measuring range: Volume	± 12 l	± 12 l	± 12 l
Measuring range: Flow	± 16 l/s	± 16 l/s	± 16 l/s
Resistance	approx 0.3cm H <sub>2</sub> O/l/s	approx 0.3cm H <sub>2</sub> O/l/s	approx 0.3cm H <sub>2</sub> O/l/s
Display	Res min 1024 x 768 / 1280 x 960	64 x 160 pixel graphic display	64 x 160 pixel graphic display
Data entry	via PC or laptop	14-key keyboard	14-key keyboard
Power supply	on pc or laptop	(2) AA batteries	(2) AA batteries
Battery service life	on pc or laptop	400 tests approx	400 tests approx
Data memory	on pc or laptop	700 tests approx	700 tests approx
Print	via pc or laptop	direct: printer or via PC, plain paper A4 direct: printer, modem-telephone, e-mail. With EasyWare to PC and beyond	via pc or laptop
Data communication	via pc or laptop	via pc or laptop	via pc or laptop
Languages	english, german, french, italian, spanish, portuguese, polish, japanese, norwegian, finnish, danish, greek, swedish, dutch	english, german, french, italian, spanish, portuguese, polish, japanese, norwegian, finnish, danish, greek, swedish, dutch	english, german, french, italian, spanish, portuguese, polish, japanese, norwegian, finnish, danish, greek, swedish, dutch
Predicted values	GLI (Global Lung Index), ERS (ECCS), NHANES III, Knudson 1976, Knudson 1983, Gore, Crapo, Morris, Roca, Austria, Cherniak, Berglund, Gulsvik, Hedenstroem, Asia 1-4, JRS2001, Pereira, Finnish. Paediatrics: Zapletal, Polgar, Dockery, Hsu, Hibbert, Eigen.	GLI (Global Lung Index), ERS (ECCS), NHANES III, Knudson 1976, Knudson 1983, Gore, Crapo, Morris, Roca, Austria, Cherniak, Berglund, Gulsvik, Hedenstroem, Asia 1-4, JRS2001, Pereira, Finnish. Paediatrics: Zapletal, Polgar, Dockery, Hsu, Hibbert, Eigen.	GLI (Global Lung Index), ERS (ECCS), NHANES III, Knudson 1976, Knudson 1983, Gore, Crapo, Morris, Roca, Austria, Cherniak, Berglund, Gulsvik, Hedenstroem, Asia 1-4, JRS2001, Pereira, Finnish. Paediatrics: Zapletal, Polgar, Dockery, Hsu, Hibbert, Eigen.
PC operating system	Windows 2000 SP4, Windows Server 2003, Windows XP SP2, Windows Vista, Windows 7, Windows 8, Windows 8 Tablet.	n/a	Windows 2000 SP4, Windows Server 2003, Windows XP SP2, Windows Vista, Windows 7, Windows 8, Windows 8 Tablet.
Processor	Intel-/Pentium or equivalent, 1GHz Interface: USB 2.0 or earlier	n/a	Intel-/Pentium or equivalent, 1GHz Interface: USB 2.0 or earlier
Hard-disk capacity	Installation/System 1GB, Memory 4GB RAM: min 512 MB - 1GB recommended	n/a	Installation/System 1GB, Memory 4GB RAM: min 512 MB - 1GB recommended

**NicheMedical**  
Solutions in Respiratory Care & Diagnosis

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(1) *Stability of the EasyOne ultrasonic spirometer for use in general practice*  
Julia A.E. Walters, Richard Wood-Baker, Justin Walls, David P. Johns *Respirology* 2006; 11: 306–310

(2) *The Burden of Obstructive Lung Disease Initiative (BOLD): Rationale and Design*  
A. Sonia Buist, William M. Vollmer, Sean D. Sullivan, Kevin B. Weiss, Todd A. Lee, Ana M. B. Menezes, Robert O. Crapo,  
Robert L. Jensen and Peter G. J. Burney. *COPD: Journal of Chronic Obstructive Pulmonary Disease*, 2:277–283