



Laptop not included

Spirometry (FVC, FVL, Tidal FVC, Tidal FVL, SVC & MVV)

The proven ultrasonic technology
n d d TrueFlow

**no calibration, no warm-up
time, no moving parts**

Quickly assess test quality with full color real time curves and instant interpretation

Data exchange via Bluetooth to the PC

Intuitive user guidance

Large color touch screen for easy data entry and navigation

Pediatric incentive via Bluetooth to EasyOne Connect

EasyOne Connect for seamless EMR integration

Rechargeable battery

TrueFlow
makes the difference

The original ultrasonic flow measurement is highly accurate in all flow ranges, independent of gas composition, pressure, temperature and humidity and does not require calibration during its lifetime. The sensor is never in direct contact with the patient's flow. n d d TrueFlow is a hygienic and resistance-free solution.

EasyConnect
intelligent interfacing

n d d's connectivity engine offers a comprehensive set of default configured HL7 and XML interfaces. With one database and one platform for all EasyOne point-of-care solutions, data management has never been easier.

Standards & Recommendations

Quality, Medical Devices & Electrical ISO 13485, ISO 14971, IEC 62366, IEC 62304, ISO 26782, ISO 23747, IEC 60601-1, IEC 60601-2, ISO 10993-1

FDA 510(k) clearance

Associations & Institutes ATS/ ERS 2005, NIOSH, OSHA

Languages

English, French, German, Spanish

Technical

Printing options Direct to printer or with EasyOne Connect software

Data management EasyOne Connect

Export HL7, XML, GDT, with software

Data links USB, Bluetooth

Test storage Up to 10'000 tests

Age range Spirometry > 4 years

Dimensions 87 x 155 x 36 mm (H x B x T), 356 g
3.4 x 6.1 x 1.4" (H x W x D), 13 oz

Device classification Type BF applied part

Operating conditions Temp 0 - 40 °C / 32 - 104 °F
Rel. Humidity 5 - 90%
Atmosph. Pressure 700 - 1060 hPa

Power supply 5 VDC, Standby 0.3W

Rechargeable battery Exchangeable, 3.6 VDC

Parameters

FVC	BEV, EOTV, FEF ₁₀ , FEF ₂₅ , FEF ₂₅₇₅ , FEF ₂₅₇₅ /FVC, FEF ₄₀ , FEF ₅₀ , FEF ₅₀ /FVC, FEF ₆₀ , FEF ₇₅ , FEF ₈₀ , FET, FET ₂₅₇₅ , FEV ₂₅ , FEV ₅ , FEV ₅ /FVC, FEV ₇₅ , FEV ₇₅ /FVC, FEV ₁ , FEV ₁ /FEV ₆ , FEV ₁ /FVC, FEV ₃ , FEV ₃ /FVC, FEV ₆ , FVC, MEF ₂₀ , MEF ₂₅ , MEF ₄₀ , MEF ₅₀ , MEF ₆₀ , MEF ₇₅ , MEF ₉₀ , MMEF, PEF, PEFT, t_0
FVL	BEV, EOTV, FEF ₁₀ , FEF ₂₅ , FEF ₂₅₇₅ , FEF ₂₅₇₅ /FVC, FEF ₄₀ , FEF ₅₀ , FEF ₅₀ /FVC, FEF ₆₀ , FEF ₇₅ , FEF ₈₀ , FET, FET ₂₅₇₅ , FEV ₂₅ , FEV ₅ , FEV ₅ /FVC, FEV ₇₅ , FEV ₇₅ /FVC, FEV ₁ , FEV ₁ /FEV ₆ , FEV ₁ /FIV ₁ , FEV ₁ /FVC, FEV ₃ , FEV ₃ /FVC, FEV ₆ , FIF ₂₅ , FIF ₅₀ , FIF ₅₀ /FEF ₅₀ , FIF ₇₅ , FIV ₂₅ , FIV ₅ , FIV ₁ , FVC, MEF ₂₀ , MEF ₂₅ , MEF ₄₀ , MEF ₅₀ , MEF ₆₀ , MEF ₇₅ , MEF ₉₀ , MIF ₂₅ , MIF ₅₀ , MIF ₇₅ , MMEF, PEF, PEFT, t_0
SVC	ERV, IC, IRV, Rf, VC, VCex, VCin, VCmax, VT
MVV	MVV, MVV6, MVVtime, VT

Predicted normal values Spirometry

GLI	Stanojevic 2009, Quanjer 2012
North America	NHANES III (Hankinson) 1999, Knudson 1983, Knudson 1976, Crapo 1981, Morris 1971 & 1976, Hsu 1979, Dockery (Harvard) 1993, Polgar 1971, Gutierrez (Canada) 2004, Eigen 2001
Latin America	Pereira 1992, Perreira 2006 & 2008, Pérez-Padilla (PLATINO) 2006, Pérez-Padilla (Mexico) 2001, Pérez-Padilla (Mexico, Pediatrics) 2003, Chile 2010, Chile (Pediatrics) 1997
Europe	ERS (ECCS, EGKS, Quanjer) 1993, Zapletal 1977, Zapletal 2003, Rosenthal 1993, Austria 1988, Austria 1994, Sapaldia (Switzerland) 1996, Roca (Spain, SEPAR) 1982, Garcia-Rio (SEPAR) 2013, Vilozni 2005, Falaschetti 2004, Klement (Russia) 1986
Europe Scandinavia	Hedenström 1985 & 1986, Gulsvik (Norway) 1985, Berglund Birath (Sweden) 1963, Langhammer (Norway) 2001, Finnish 1982 (1998), Nystad 2002
Australia	Hibbert 1989, Gore Crockett 1995
Asia	Chhabra (India) 2014, Dejsomritrutai (Thailand) 2000, Indonesia 1992, IP (China, HongKong) 2000 & 2006, JRS 2001 & 2014
Africa	Ethiopia 1985

Flow/Volume Sensor

Type	Ultrasonic transit time
Flow Range	± 16 l/s
Flow Resolution	4 ml/s
Flow Accuracy (except PEF)	± 2% or 0.020 l/s
PEF Accuracy	± 5% or 0.200 l/s
MVV Accuracy	± 5% or 5 l/min
Volume Range	± 12 l
Volume Resolution	1 ml
Volume Accuracy	± 2% or 0.050 l
Resistance	0.3 cm H ₂ O/l/s at 16 l/s

EasyOne Air complete package with device, power plug and adapter, cradle, USB cables, battery pack etc.

Order Information

Part Number	Product
2500-2A	EasyOne Air US Type A package
2500-3C	EasyOne Air EU Type C package
2500-5G	EasyOne Air UK Type G package
2500-4I	EasyOne Air AUS Type I package
2500-6MJKM	EasyOne Air India Type M package
2500-7A	EasyOne Air Canada Type A package

Accessories

Part Number	Product
5050-50	EasyOne Flow Tube, individually wrapped, box of 50 pcs
5050-200	EasyOne Flow Tube, individually wrapped, box of 200 pcs
5050-500	EasyOne Flow Tube, individually wrapped, box of 500 pcs
2030-2	ndd Calibration syringe 3L with EasyOne Flow Tube Cal Check Adapter
5030-2	EasyOne Flow Tube Adapter