



CardioSoft Diagnostic System Spirometry

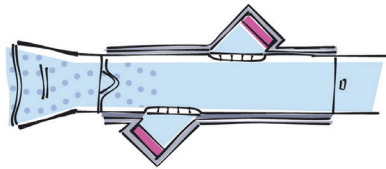
Safe and efficient respiratory assessment

- Uniquely designed for CardioSoft™ Diagnostic System, the EasyOne CS provides calibration-free spirometry testing, with increased patient safety
- Easy-to-use spirometer with patented digital ultrasonic flow measurement technology for fast, accurate and reliable operation
- Ultrasonic flow measurement is independent of gas composition pressure, temperature and humidity, and helps reduce errors due to these variables, supporting high-quality measurement
- Export best test or manually select best of three test curves to CardioSoft Diagnostic System, and EMRs. Data is also exportable in Microsoft® Excel®, XML, HL7®, PDF, and GDT
- Single-patient-use spirette minimizes risk of cross-infection and improves hygiene for inspiratory and expiratory tests
- Spirette is ergonomically designed to fit both pediatrics and adults comfortably
- Efficient, cost effective operation through economical consumables and long battery life
- Meets current standards for respiratory assessments

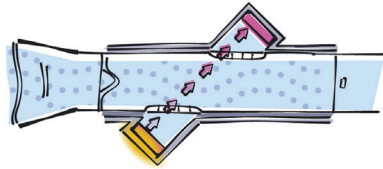


Disposable Spirette Technology

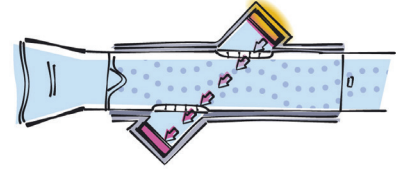
Ultrasonic Flow Measurement



Transducers located on either side of the Spirette cavity emit and receive sound in alternating directions.



When gas flow is present in the tube, a pulse that travels against the flow is slowed down and takes a longer time to reach the opposite transducer.



Conversely, a pulse traveling with the flow is sped up and takes a shorter time to reach the opposite transducer.

CardioSoft Diagnostic System Spirometry provides the test modes and common reports for standard respiratory assessments.

EasyOne-CS Model 2001 Spirometer Specifications

Test modes	FVC, FVL, Slow VC, MVV, Pre/Post
Parameters	FVC, MVV, FEV6, FEV1, FEV1/FVC, FEV1/VC, FEV1/FEV6, MEF25 (FEF75), MEF50 (FEF50), MEF75 (FEF25), MEF25%-75%, PEF, FET, FIVC, PIF, IVC, ERV, IRV, pre-post % variation, Lung Age
Size	83 x 158 x 43 mm (3.3 x 6.2 x 1.7 inches)
Weight	242 grams (8.6 ounces), with batteries
Measuring accuracy	
Volume	±2% or 0.050 l
Flow	±2% or 0.020 l/s, (except PEF)
PEF	±5% or 0.200 l/s
MVV	±5% or 5 l/min.
Measuring range	
Volume	±12 l
Flow	±16 l/s
Resistance	Below 0.3 cm H ² O/L/s
Display	64 x 160 graphic display
Data entry	14-key keyboard
Data memory	For up to 700 tests, stored in EasyOne CS
Respiratory tube	Disposable spirette respiratory tube
Measurement principle	Ultrasound transit-time measurement
Adult predicted	NHANES-III, Knudson_83, Knudson_76, Crapo, Morris, ERS (ECCS/EGKS), Forche (Austria), Sapaldia (Switzerland), Roca (Spain), Berglund, Gulsvik, Hedenström, Gore, Cherniak (only for MVV)
Pediatric predicted	Dockery (Harvard), Hsu, Zapletal, Polgar, Hibbert
Power supply	
Power consumption	2 alkaline batteries, type AA, 1.5V typical 0.6 W
Storage	
Temperature	-20 to 50°C
Relative humidity	5% to 95%
Ambient pressure	500 to 1060 hPa
Operating conditions	
Temperature	0 to 40°C
Relative humidity	0% to 95%
Ambient pressure	500 to 1060 hPa
Meets standards	2005 ATS/ERS Standardization of Spirometry NLHEP Spirometry Review Process

Computer specifications

Microprocessor	Minimum Pentium® 4 class processor with 2 GHz
RAM	Minimum 1 GB Windows® 7 Professional (32 bit); 2 GB Windows 7, Windows 8.1 (64 bit) or Windows 10 (64 bit)
Hard drive	Minimum 80 GB and 4 GB of free space if used as a standalone system
SW installation	DVD-ROM drive
Pointer	Mouse
Graphics adapter	Minimum: SVGA 1024 x 768 Recommended: SXGA 1280 x 1024
Interfaces	Minimum: 2 USB ports (1.1, 2.0, or 3.0) for each device using this type of interface, CD-RW, SD card, network interface card (recommended), Serial RS232 for each device using this interface type
Operating system	Windows 7 Professional (32 bit) with SP1 Windows 7 Professional (64 bit) with SP2 Windows 8.1 Pro (64 bit) Windows 8.1 Enterprise (64 bit) Windows 10 Professional (64 bit)
Printer	Equivalent to HP® P3015dn (Customer Supplied)
Additional software for export functionality	Microsoft® Word and Excel® (optional)
Networking LAN	Wireless: 802.11 G, N (optional) TCP/IP interface

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