

CardioSoft Diagnostic System Spirometry

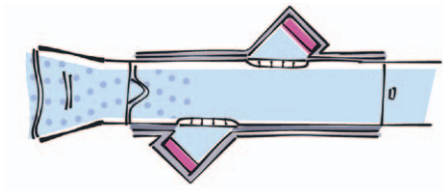
Safe and efficient respiratory assessment

- Uniquely designed for CardioSoft™ Diagnostic System v6.6 to provide calibration-free spirometry testing, more patient safety and no contamination
- 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 eliminate errors due to these variables, ensuring high-quality measurement
- Auto-export best test or manually select best of three test curves to CardioSoft Diagnostic System, EMRs and PACS. Data is also exportable in Excel and XML for detailed user analysis
- Single-patient-use Spirette minimizes risk of cross-infection and assures complete 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

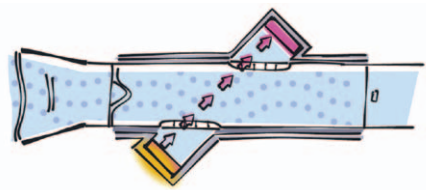


Disposable Spirette Technology

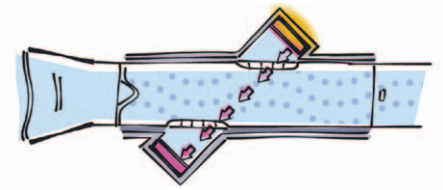
Ultrasonic Flow Measurement



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
Predicted normals	NHANES III, Knudson 76, Knudson 83, Morris, Crapo, Dockery, Hsu
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

Workstation specifications

Microprocessor	Minimum: Pentium 4 \geq 1.6 GHz (Windows XP); 2 GHz (Windows Vista)
RAM	512 MB (Windows XP); 1 GB (Windows Vista)
Hard drive	4 GB (depending on number of tests to save); 50 MB of free memory
SW installation	CD-ROM drive
Pointer	Mouse
Graphics adapter	Minimum: SVGA 1024 x 768 Recommended: SXGA 1280 x 1024
Interfaces	Minimum: 2 USB ports, CD-RW, SD card, network interface card (recommended)
Operating system	Windows XP/Pro SP 2/3; Windows Vista Home Premium/Business SP 1; Windows Server 2000/2003
Printer	PLC 6 driver compatible; US letter or A4 paper; USB or parallel interface GE Healthcare recommends HP4250 network printers, HP4650 or HP LaserJet® P3005 dn for use with CardioSoft Diagnostic System and networked printing from CASE systems
Additional software for export functionality	Microsoft® Word and Excel® (optional)
Networking LAN	Wireless: 802.11G (optional) TCP/IP interface
Citrix®	Citrix application software not sold, installed or supported by GE Healthcare

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Our “healthymagination” vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality and efficiency around the world. For more information about GE Healthcare, visit our website at www.gehealthcare.com

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