Helios 702
SPIROMETRY SYSTEM (PFT)



PORTABLE SPIROMETER
COLOR TFT DISPLAY WITH BUILT-IN THERMAL PRINTER

Features-

- FVC, SVC and MVV tests
- Pre & Post medication results
- Indian Predicted equations
- Internal memory for 2500 tests
- COPD severity
- Overlapped FVC graph
- Auto-Interpretation
- Result table with Predicted, Result achieved, %Predicted, %Improvement
- Full Alphanumeric keypad to enter patient and clinic information
- Detachable and easy to disinfect digital turbine transducer
- Paper-out indication
- Battery status indicators
- PC connectivity for further viewing, reporting and management of Spirometry data

CE

Helios 702 - Technical Specifications

Spirometer

Flow Range	-10 to +16 litres / sec.
Max Volume	8 litres
Accuracy	±1% (using a standard 3L calibration syringe)
Transducer	Bi-directional Turbine Cartridge
Turbine sensor	Infrared interruption
Flow detection	Volume differential

Display

Data display	Graphs and measurement values
Graphics display	320 x 240 pixels; TFT colored screen
Display size	3.5"

Printing

Recorder	Thermal printer
Size	80mm (Rolled)
Printing Labels	Patient information, Clinic information
Printout format	Graphs and measurement values

Measured Parameters

Forced Vital Capacity:

FVC	FEV3	FEV.5/FVC%	FIF50%	FIV.5
FEV1	PIFR	FEV3/FVC%	FIF75%	FIV1
FEV1/FVC%	FEF75-85	FET	FEV.75	FIV3
FEF25-75	FEF.2-1.2	Exp Time	FEV1/FEV6	FIV.5/FIVC
PEFR	FEF25%	Lung Age	FEV.75/FVC	FIV1/FIVC
FIVC	FEF50%	FEV6	FEV6/FVC	FIV3/FIVC
FEV.5	FEF75%	FIF25%	FEV.75/FEV6	

Slow Vital Capacity:

SVC,	VE,	Te,	Ti/Ttot,
ERV,	Rf,	VT,	IC
IRV,	Ti,	VT/Ti,	

Maximum Voluntary Ventilation:

MVV,	MVT,	ET/IT
MRf,	ET,	IT,

Power Supply

Line Power	~ 220 - 240V, 50Hz + 10%
Power Supply Operation	AC/DC with on / off line Battery charging
Battery	⎓ 12V / 1.2AH
Charging Time	3 Hours

Mechanical

Dimensions	288 mm x 238 mm x 85 mm
Weight	1.8 Kg approx.

PC Mode

Communication Interface	USB
Features	PC Based Spirometry Test, Data download facility, Pediatric Incentives, Lung Age Calculation, Multiple Report Formats, Ethnic Correction, Unlimited storage

Predicted Equations

ERS 93, ITS Black, ITS White, Knudson 83, BARCELONA, LAM and Indian Predicted Equations

Minimum PC/Laptop Configuration

OS: Windows XP Pro/Windows7 Professional 32bit, Processor: Core2Duo or higher, RAM: 2GB or higher, 40 GB harddisk or higher, CD/DVD Optical Drive, Screen Resolution 1024x768 or higher

Hardware & Accessories

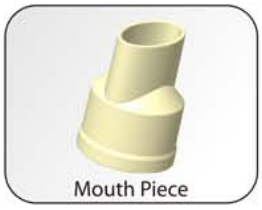
Component	Quantity
Hand Set	01
Turbine Transducer	01
Software CD	01
USB Cable	01
Reusable Mouth Pieces	01
Adult Nose Clip	01
Pediatric Nose Clip	01
Carry Bag	01
User Manual	01

Optional

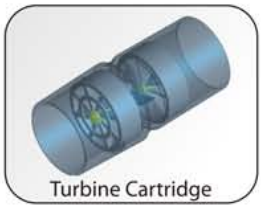
- Disposable Mouth Pieces
- PC / Laptop
- DeskJet / LaserJet Printer


Software CD


USB Cable


Mouth Piece


Nose Clip


Turbine Cartridge

Since R&D is a continuous process, features & specifications are subject to change without notice.

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Certifications: ISO 9001:2008, EN ISO 13485:2003, CE

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