



# All in one office Spirometer CHESTGRAPH HI-301

Specifications	
Flow detection	Ultrasonic Sensor / Turbine Sensor
Flow range	+/-18L/S
Flow resolution	0.01L/S
Flow accuracy	+/-5% or +/-0.02L/S, whichever is greater
Volume detection	Flow integration
Volume range	0 to +/-10.0L
Volume resolution	0.01L
Volume accuracy	+/-3% or +/-0.05L, whichever is greater
Display	7 inch color touchscreen monitor
Internal printer	Thermal printer (112mm width)
External printer	PCL-5e or PCL-5c compatible USB Printer
Internal memory	More than 20,000 data
Interface	Wireless connection, USB-A, USB-mini, USB Micro-B for printer
Power	100-240V 50/60HZ
Internal battery	Rechargeable NiMH
Dimensions	230(W) x 240(D) x 85(H) mm
Weight	Approx. 2.5kg

### Ultrasonic Sensor Tube



### Turbine Sensor Head



### Analyzed Items

**SVC, FVC, FEV0.5, FEV1, FEV3, FEV6, FEV1/FVC, FEV1/SVC, FEV1/FEV6, MMEF (FEF25-75), PEF, FEF25, FEF50, FEF75, FEF90, FEF50/FEF75, FEF75-85, FEF200-1200, OI, ATI, PEF time, FET, Extrap V, ExtrapV%, FIVC, FIV0.5, FIV1, FIV1/FVC, FIV1/FIVC, PIF, FIF50, FEF50/FIF50, FIF50/FEF50, CVI, MVV43, FVC+FEV1, MVV, MV, TV, RR, BR, VR, BD test, Methacholine Challenge test, 6MWT (option)**

### Standard Accessories (Ultrasonic)

Ultrasonic Sensor Tube (Straight)	2
Ultrasonic Sensor Tube (Mouthpiece)	5
Paper Mouthpiece	3
Printer Paper (112mm x 20m)	1
Nose Clip	1

### Standard Accessories (Turbine)

Turbine Sensor Head	2
Paper Mouthpiece	3
Printer Paper (112mm x 20m)	1
Nose Clip	1
Spiro-Filter, Standard type	1

### Optional Accessories

Pulse Oximeter for 6MWT
Calibration Syringe (3L or 1L)
Nose Clip (10pcs / pack)
Printer Paper (10rolls / box)
Spiro-Filter (Standard or Mouthpiece type, 100pcs / box)
Paper Mouthpiece (100pcs / box)
Spirobank, PC Software for Windows

Specifications are subject to change without notice.



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**Fast, Accurate, and Simple LUNG FUNCTION TESTING**



# TWO DIFFERENT CHOICES OF FLOW SENSORS

## DISPOSABLE Ultrasonic or REUSABLE Turbine

Introducing Advanced and All-in-one portable Spirometer, suitable for your office. Newly designed graphic icons on wide color touch screen allow fast and intuitive operations. Animated instructions for patients to help perform easy, complete, and reliable Spirometry tests. Two different types of flow sensors are available to meet all your needs in testing. For data management on your PC, SPIROBANK software is also available as an option.



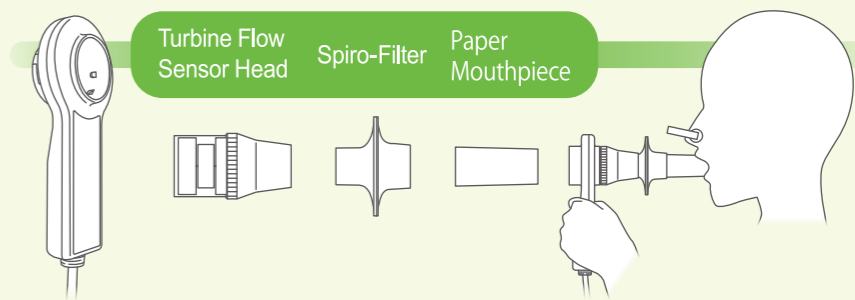
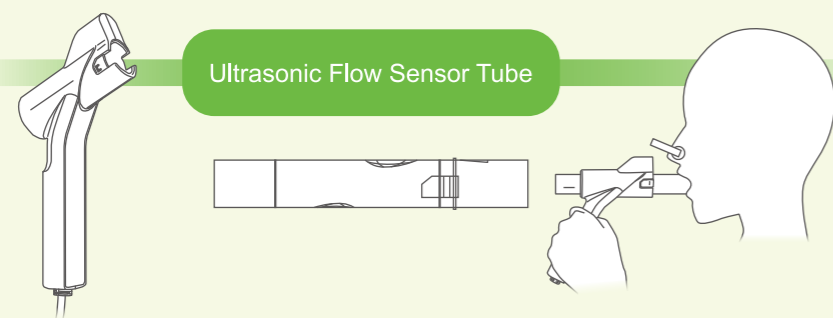
**Ultrasonic** Configuration

- Wireless connection or USB data transfer to PC
- 7 inch color touchscreen monitor
- 6 minute walking test with Pulse Oximeter option
- More than 20,000 test data storage
- Direct printing by an external USB printer (PCL-5e or PCL-5c)
- Animated instruction for patients
- Lung Age estimation supported
- Flow measurement range as high as 18L/S
- ATS/ERS 2005 requirements satisfied



**Turbine** Configuration

Features of our Flow Sensors	
Ultrasonic Flow Sensor	Turbine Flow Sensor
Hygienic (Single patient use)	Economical (Reusable)
No waiting time for the zero adjustment	Easily disinfected
Very low respiratory resistance	Low dead space
No contact with patient's exhaled gas	
No periodical calibration required	



### HI-301 Screenshots

• FVC measurement with QC checker



• The best 3 trial record



• Pediatric incentive animations



• Animated Instructions for patients

