

## Specifications

<b>Flow detection</b>	Lilly type pneumotach sensor (Bi-directional)
<b>Flow range</b>	+/-0.05 to +/-14L/S
<b>Flow resolution</b>	0.01L/S
<b>Volume detection</b>	Flow integration
<b>Volume range</b>	+/-0.01 to +/-10.0L
<b>Volume resolution</b>	0.01L
<b>Volume accuracy</b>	+/-3% or 0.05L, whichever is greater (ATS)
<b>Display</b>	10.4 inch (TFT) color display (640 x 480dots)
<b>Printer</b>	Built-in thermal printer (112mm width)
<b>Data storage</b>	More than 1000 patients in Compact Flash memory
<b>Computer interface</b>	USB, RS-232C, and CF slot
<b>Power requirement</b>	AC100-240V, 50/60Hz
<b>Dimensions</b>	350 (W) x290 (D) x 100 (H) mm
<b>Weight</b>	4.5kg
<b>Quality Assurance</b>	IEC 60601-1 (Safety) / IEC60601-1-2 (EMC)

## Standard Accessories

<b>Paper mouthpiece (100pcs/box)</b>	1 box
<b>Nose clip (Reusable)</b>	2 pc
<b>Printer paper (112mm width, thermal)</b>	1 roll
<b>Flow sensor head</b>	2 pcs
<b>Flow sensor unit</b>	1 pc
<b>Fuse</b>	2 pcs
<b>Spiro-Filter</b>	2 pcs
<b>CF memory card</b>	1 pc
<b>Power cord</b>	1 pc
<b>Operation manual</b>	1 pc

## Optional Accessories

<b>Calibration syringe</b>	1L or 3L Volume + adapter
<b>Spirobank software for Windows</b>	Compatible with HI-801, and HI-101 Spirometers
<b>Mouse</b>	PS/2 connection
<b>Spiro-Filter</b>	100pcs/box
<b>Silicone mouthpiece (Reusable)</b>	For adults
<b>Flow sensor mesh Screen</b>	10pcs/pack
<b>Plastic nose clip (Disposable)</b>	10pcs/pack

## Analyzed items

SVC		SVC, IC, TV, ERV, IRV, VC/HT, (Bronchodilator test)
FVC		FVC, FEV0.5, FEV1.0, FEV3.0, FEV6.0, FEV0.5%, FEV1/FVC, FEV1/SVC, FEV3.0%, FEV6.0%, FVC/HT, FEV1/HT, FEV1/VCpr, MMEF, PEF, FEF25, FEF50, FEF75, FEF90, FEF50/FEF75, PEF/HT, PEF25/HT, FEF50/HT, FEF75/HT, FEF75-85, FEF200-1200, MTC75-50, MTC50-25, MTC25-RV, MTCR, OI, ATI, PEF TIME, FET, ExtrapV, ExtrapV%, FIVC, FIV0.5, FIV1.0, FIV1/FVC, FIV1/FIVC, PIF, FIF50, FEF50/FIF50, FIF50/FEF50, CVI, MVV43, FVC+FEV1, (Bronchodilator test)
MVV		MVV, TV, RR, MVV/BSA, AVI, (Bronchodilator test)
MV		MV, TV, RR, BR, VR, (Bronchodilator test)
OPT Meas't	Respiratory Pressure	PEmax, PE/int, PE/t, PE/ave, PImax, PI/int, PI/t, PI/ave
	Airway Resistance	In Rint, Ex Rint
	Rhinomanometry [Anterior, Posterior]	P (Peak) Ex, P (Peak) In, V (250) Ex, V (250) In, P (150) Ex, P (150) In, P (100) Ex, P (100) In,
	NEP	FL, TV, FL%
	Pulse Oximetry	SpO2max, SpO2min, SpO2mean, Pulse Rate max, Pulse Rate min, Pulse Rate mean

The following optional sensors have been discontinued.  
Respiratory Pressure, Airway Resistance, Rhinomanometry,  
Pulse Oximetry, Negative Expiratory Pressure measurement



● Calibration syringe (3L / 1L)



● Spirobank Software



● Spiro-Filter



● Silicone mouthpiece (for adults)



● Flow sensor mesh screen



● Nose clip (Metal / Plastic)

# Multi-Functional SPIROMETER HI-801

## Lung function tests...

- To evaluate symptoms: Cough, Sputum production
- To screen: Smokers, Factory workers
- To diagnose: COPD, Asthma, Dyspnea, Heart failure



## All-in-one Full Spirometry

*Large full color LCD, built-in printer, and exchangeable CF memory card are featured.*

## COPD Diagnosis

*Classification of COPD by Severity helps the therapeutic management at each stage of COPD patients.*

CE 0123

Specifications are subject to change without notice.

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**CHEST**

# Early detection of COPD!

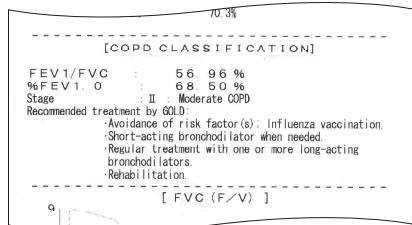


“Chronic Obstructive Pulmonary Disease (COPD) is a major cause of chronic morbidity and mortality throughout the world. **COPD is currently the 4th leading cause of death in the world (WHO, 2000), and further increases in the prevalence and mortality of the disease can be predicted in the coming decades.**”

“For the diagnosis and assessment of COPD, spirometry is the gold standard as it is the most reproducible standardized, and objective way of measuring airflow limitation.

To help identify patients earlier in the course of the disease, spirometry should be performed for patients who have chronic **cough** and **sputum** production and history of exposure to risk factors (**tobacco** smoke, **Occupational dusts and chemicals**, Smoke from home cooking, and heating fuels, etc.), even if they do not have dyspnea.”

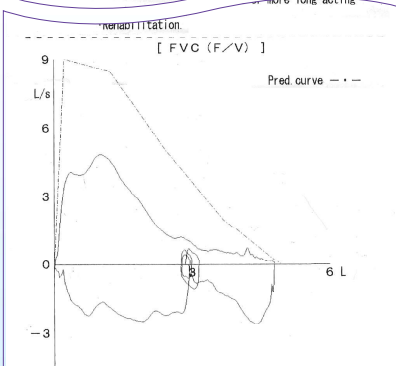
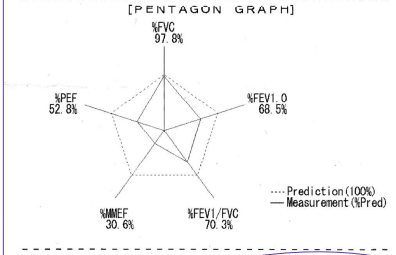
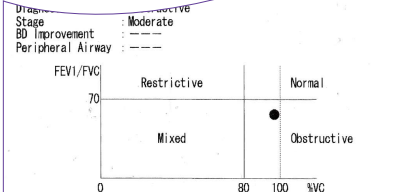
\*“Global Initiative for Chronic Obstructive Lung Disease”  
(Updated July, 2003) based on NHLBI/WHO workshop report.



- Compact Flash memory card for more than 1000 test storage and easy back up.
- Easy operation using a Mouse and Full keyboard on screen.
- COPD diagnosis by GOLD (NHLBI/WHO workshop report)
- MVV and MV measurements.
- Patient incentive animations for children (FVC).

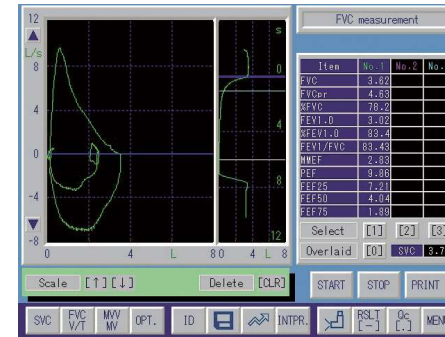
## Print out Sample (Reduced size)

SPIROMETRY TEST REPORT									
Name	JOHN SMITH				Date	10/21/2008 15:48			
ID No.	1 2 3 4 5 6 7 8 9 0				Race	Caucasian (100 %)			
Sex	Male				Room temp.	22.0 °C			
Age	50				Humidity	50.0 %			
Height	180.0 cm				P.B.	1013.1 hPa			
Weight	75.0 kg				Predicted	KNUDSON			
Cal. Date	10/1/2008								
Physician									
ITEM	UNIT			MEAS	PRED		%PRED		
VC	L			4.75	4.00		84.5		

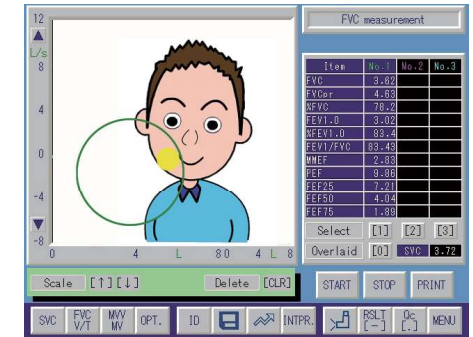


## Display Samples

### Spirometry



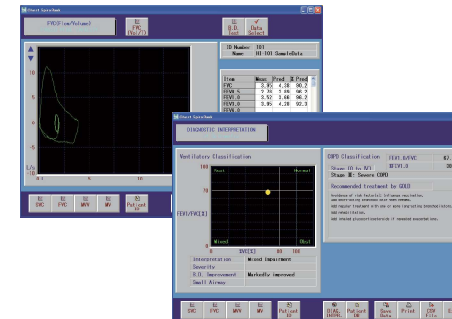
### Patinet incentive animations for children



## CHEST Spirobank Software (Option)

Windows software is optionally available for the data transfer, analysis, and storage.  
(Compatible with HI-101, and HI-801 spirometers)

### Display Samples



### Print out Sample

