

# SpiroVision 3



FVC  
MVV  
SVC/IVC  
Respiratory Pattern  
Pre/Post Comparison  
Broncho-Challenge Testing



***Convert a standard computer into a powerful spirometer***

SpiroVision-3+™ is a cost-effective plug-and-play device that converts a laptop, desktop or tablet computer into a complete spirometer. The system consists of two elements: an ergonomic handset that connects directly to a computer's USB port, and the Omnia-3+ for SpiroVision-3+ software.

The small and lightweight SpiroVision-3+ handset is easy to hold - for patients young and old. It is powered by the computer, eliminating the need for batteries or an external power source. SpiroVision-3+ can be used with a choice of mouthpieces or bacterial filters, giving the operator control over the cost and quality of disposables. The sensor is easy to disinfect and meets the latest ATS standards for accuracy.

The new Omnia for SpiroVision-3+ software is simple to use and offers shortcut buttons for fast and intuitive operation. All maneuvers are displayed in real time, so the operator can monitor tests while they are performed. During the FVC

the operator has a simultaneous view of the Flow/Volume loop and the time/Volume curve, making it easier to recognize and correct testing errors. Computer generated quality control messages further help the technician ensure test quality.

The new "Fish Bowl" incentive gives patients a visual goal based on predicted results. This simple, user-friendly device motivates patients to perform better, yielding more accurate results.

Using the latest ATS guidelines, the software automatically identifies the "best" efforts; the operator can accept them or select a different one. All efforts may be saved and results are analyzed using a choice of predicted standards built into the software.

In addition to demographic data and test results, patient records may include notes, medical history, occupational information, diagnosis codes and more.

Reported are generated in color and

feature graphs, data and comprehensive analysis including a comparative bar graph and a statement of interpretation.

SpiroVision-3+ can automatically convert reports into PDF formatted files and store them in specified folders to share with EMR and other programs.

Calibration and linearity checks are done using a standard 3 liter syringe and according to the latest Occupational Health standards.

SpiroVision-3+ with Omnia is compatible with 32 and 64-bit versions of Windows 7, 8 and WIN10.

FutureMed America Inc.  
15700 Devonshire Street  
Granada Hills, CA 91344-7225 USA  
Toll free: 1-800-222-6780  
Phone: 1-818-830-2500  
Fax: 1-818-891-4755  
E-mail: info@futuremed.com  
www.futuremed.com

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# SpiroVision 3+™ Spirometer

- ▶ Full page reports with color graphs
- ▶ Stores unlimited number of patient files
- ▶ Automatic or user-selected best test
- ▶ Calibration and linearity checks based on the latest occupational testing standards.
- ▶ Quality control messages confirm if a test meets industry standards
- ▶ Records are personalized with patient information and operator comments



## Tests

FVC, F-V Loops, VC, IVC, MVV, Respiratory Pattern, Pre/Post comparisons, Broncho Challenge.

## Measured Parameters

The operator can choose to select and print parameters from an extensive list including:

FVC, FEV1, PEF, FEV1/FVC, FEV6, FEV6/FVC, FEV1/FEV6, FEF25-75, FET100%, VEXT, FIVC, PIF, VC (SVC), IVC, MVV, FEV1/VC%, MEF25, MEF50, MEF75, ERV, IRV, VE, Rf, Ti, Te, Ti/t.Tot, Vt/Ti, IC, \*Best FVC, \*Best FEV1, \*Best PEF.

## Predicted Values

Omnia-3+ for SpiroVision-3+ lets user select from the NHANES III (Hankinson), GLI (Global Lung Initiative), Knudson 83, ITS, ECCS '83 (ERS93), Gutierrez, LAM, Norma Mexicana, Multicentrico Barcelona, Pereira, Pneumobil, Thai 2000, Austria (Forche) and other predicted sets.

SpiroVision-3+ is a registered trademark of Futuremed America Inc. Windows is a trademark of Microsoft Corp. Federal law (USA) restricts this device to sale by or on the order of a physician. Specifications subject to change.

## Hardware Features

SpiroVision-3+ uses an innovative new digital turbine to deliver accurate inspiratory and expiratory measurements at low to high flow rates. This provides reproducible, precision results equal to or exceeding the latest ERS/ATS standards. The sensor is easy to clean and can be used with filters or mouthpieces.

Flow range: 0.08-20 l/s  
 Volume range: 12 liters  
 Accuracy F/V: +/- 2%  
 Resistance: <0.60 cm H<sub>2</sub>O/l/s @ 14 l/s  
 Transmission: USB (5v)  
 Power: Supplied by computer  
 Dimensions: 5.9" x 2.1" x 1.6"  
 15 x 4.5 x 4.1 cm  
 Weight: 2.8 oz (77 g)  
 Operating temp: 0° - 50°C  
 Operating humidity: Less than 90% RH

## "Omnia" Incentive Display



A colorful incentive display encourages patients based on predicted Peak Flow and FVC values, to obtain maximal effort and optimal results.

## Minimum Configuration

- 1.4Ghz (or faster) processor
- Windows 7, 8 and 10 (32 or 64 bit)
- 4 GB RAM (8 GB recommended)
- CD drive
- 500 MB free disk space plus 850 MB for .NET framework and 512 MB for SQL Server 2008
- USB port (must supply atleast 5V)
- Most Windows compatible printers

## Standard Accessories



Part#	Description
SV3+USB	SpiroVision-3+ sensor handset
3P010	SV-3+ Flowmeter
3POMN	Omnia for SpiroVision-3+ Software on CD
3P060	Owner's manual
3P110	Carrying case
	Disposable mouthpieces
	Pediatric & filter adapters
	Sample filters
	Noseclips

## Optional Accessories

Part#	Description
39250	3 liter calibration syringe
39NA050	Spirometry filters (50)
39NA100	Spirometry filters (100)
39NA250	Spirometry filters (250)
35070	Adult mouthpieces (100)
35080	Adult mouthpieces (1000)
35090	Pediatric mouthpieces (100)
39290	Disposable noseclips (100)

SpiroVision can also be furnished installed on a choice of computers.

## EMC

EN 60601-1-2, EN 55011 Class B (emission), IEC 801-2 (1991 immunity ESD):4KV CD, 8KV AD, IEC 801-3 (1984, immunity fields EM): 3 V/m  
 Notice: SpiroVision-3+ meets the EMC Directive 84/539/EEC and 89/336/EEC

## Safety

CE IEC 601-1/EN 60 601-1

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