

# CARDIOLINE

## pneumos500

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**pneumos500** is a portable spirometer that can measure the most important respiratory parameters such as FVC, VC, and MVV.

**pneumos500** is compact and lightweight (it weighs only 300 g) and is provided with a large 3.3" color display with a touch-screen user interface showing the patient's data and examinations.

To allow you using the device in a more intuitive manner, a video tutorial on the display describes in detail the procedures to be followed.

The ultrasonic measurement system with patented IDEGEN technology has no mechanical moving parts which makes the instrument particularly reliable. The IDEGEN patent uses three ultrasonic sensors that are able to measure the direction and the flow of air with extreme accuracy, this without any latency time, typical of the turbine systems.

Among the accessories available for the **pneumos500**, there is a disposable mouthpiece. This is the only part in direct contact with the patient. It is made with white paper free of chlorine and toxic materials and is finished externally with a special film to prevent the sticking of the lining of the mouth. Due to its high quality characteristics, The mouthpiece is certified in class IIa according to the Medical Device Directive.

The internal memory of the **pneumos500** handles up to 20,000 tests/patients. The **pneumos** software supplied allows the direct control of the device, displaying the "real time" examination data, the download of the exams stored from **pneumos500** to a database. You can also review, display and print reports of the examinations through customizable reports. Thanks to the **pneumos** software, you can print reports in Dicom format and transfer data via GDT and HL7.

The main features of the product are as follows:

- Database of the patients and tests
- Management and printing software
- Automatic comparison of the values measures with the theoretical ones
- Graphical, touch screen 1/4 VGA (320 X 240 pixels), 256 k colors interface
- Ultrasound technology with no moving part inside
- Automatic calibration
- Internal rechargeable battery

*Note:*

*Manufacturer USCOM Kft - Bogdanfy str. 10 - Budapest H-1117*

## Reference markets

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- Pulmonology surgery
- Cardiology surgery
- Sports medicine
- Occupational medicine
- Home nursing service

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## Technical features

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Parameters measured:.....	FVC, VC, PEF, FEV1, FEV1/FVC, FEF2575, FEF2550, FEF25, FEF50, FEF75, FEV3, FEV6, EV, ZeroTime, FET, PEFT, FIVC, PIF, FIV1, FIV1/FIVC, FIT, EVC, IVC, IC, IRV, ERV, TV.
Memory capacity:.....	The device can store up to 20,000 patients and /or measurements.
Display:.....	1/4 VGA (320X240 pixels), 262k colors touch-screen
Communication ports:.....	Connection to the PC via a USB
Measurement system:.....	IDEGEN™ technology
Measurement principle:.....	IDEGEN™ ultrasonic multiple-path
Maximum value:.....	± 20 l
Flow range:.....	± 18 l/s
Volume accuracy:.....	± 3% or 50 ml
Flow accuracy:.....	± 3% or 50 ml/s
Sampling frequency:.....	100 Hz
Dynamic resistance at 14 l/s:.....	< 110 Pa/l/s
Internal battery:.....	3,7 V Li-Ion (rechargeable via 5V 500mA miniUSB)
Electrical protection:.....	Internal power supply
Electric protection level:.....	BF
Device dimensions:.....	92x80x35 mm
Flowmeter dimensions:.....	∅30 mm X 150 mm
Weight:.....	300 g
Use and storage conditions:	
Temperature:.....	10-40°C
Relative humidity:.....	5 - 95%, non-condensing

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## Standard accessories supplied

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<i>Description</i>	
Pneumos PC software	1
Disposable bacterial filter	1
Battery charger	1
USB cable	1
Device case	1
Plastic noseclip	1
Warranty months	24

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## Accessories

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<i>Code</i>	<i>Description</i>
67040208	Disposable Kit 50pcs – Bacterial Filter + Mouthpiece spiro
67040015	Plastic mouthpiece, pack of 100 pieces
67040016	Reusable bacterial filter
67040017	Disposable bacterial filter insert, pack of 100 pieces
60401007	Disinfectant
67040018	Pneumos PC software
65090056	Bag, "Cardioline 60" model
89100154	Plastic noseclip 10 pcs
62000034	PC desktop & monitor TFT 22"
62000031	W/B printer

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