NSPiro Spirometer System

Pulmonary Analysis

The **NSpiro** is a fast and easy system that provides accurate and reliable Spirometry measurements. Optimal for pulmonary analysis, the **NSpiro Spirometer System** is the perfect tool for asthma management, early detection of acute respiratory disorders and for the use in pharmaceutical trials.

Fast and Easy
- Latest technology
- Just connect to a USB port

Reliable Test Results
- Accurate & reliable results
- Meets all *ATS Flow* and *Volume Waveforms*

Minimum Dead Space
- Allows accurate measurements even on small children

Maximum Patient Safety
- Disposable transducers for maximum hygiene and safety
- Ready for next use in seconds
- No extra mouthpieces or filters necessary

FEATURES

- Easy to use
- Automatic interpretation
- SQL Database included

- Data export to XML
- Optional HL7 interface

The NSPiro Spirometer System functions independently as a standalone application or can be linked to the Norav Medical ECG Management System (NEMS).

NORAV
medical

ECG Excellence

High-performance software

State-Of-The-Art Technology - Extremely user friendly advanced diagnostic software.

The powerful built-in SQL database allows a comfortable and easy Patient data management.

Networking - Easily network multiple systems. Manage all patient test results from a group of doctor's clinics or even use the **NSpiro** system at different locations within a single doctor's clinic.

Report Design - The advanced report design allows the user to print out the test results exactly as they appeared on screen during the test. This helps to minimize the risk of confusion when reviewing the results.

Data Trending and Statistics - By the use of the powerful statistics options of the database tool the **NSpiro System** is the perfect tool for Asthma management, early detection of acute respiratory disorders and for the use in pharmaceutical trials.

Revolutionary Hardware

No Filters - Ensures low resistance to flow on all spirometry tests.

Improved Patient Safety - The disposable flow transducer provides enhanced infection control.

Accuracy is our Standard - The unique flow transducers has been designed and tested to meet all ATS Flow and Volume waveforms.

Incredibly low Dead Space - The unique flow transducer offers the lowest ever Dead Space. Less than 24ml and ensures that the **NSpiro** can be used to test even small children with extremely low ventilation.

Revolutionary snap change system - Operators never have to touch a used flow transducer again! Simply open the snap clip on the handle to allow the used transducer to fall out.

Easy USB connection - Easily connect the **NSpiro** Software Key to the PC. No additional power cables or battery chargers are needed.

Technical Data	
Flow Measurements	
Flow Transducer	Spiraflow™
Measurement Principle	Differential pressure
Measuring Range	± 16 l/s
Resistance	< 0.09 kPa / (l/s) < 15 l/s
Effective Dead Space	24 ml
Resolution	< 1 ml/s
Sample Rate	125 Hz
Accuracy	± 3% or 20 ml/s
Volume Measurements	
Volume Measuring Range	0-20l
Volume Measuring Accuracy	± 3% or 50 ml/s
Electrical	
PC Interface	USB 2.0
IP Protection Type	VDE IPXO IEC 529
MDD Classification	Class IIa; MDD 93/42/EEC, Appendix IX
Application Component	Type BF according to EN 60601-1 (or VDE 0750)
Mechanical	
Size	76.5 x 30 x 18.5 mm (3" x 1.18" x 0.72")
Weight	20 gr (0.70 oz)

All Norav Medical products are ISO 13485, CE, 510(k) and Health Canada certified.