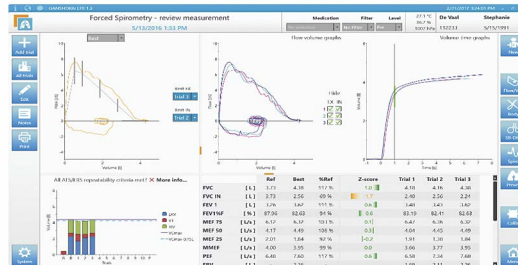


New LFX Software: Powerful yet Simple to use

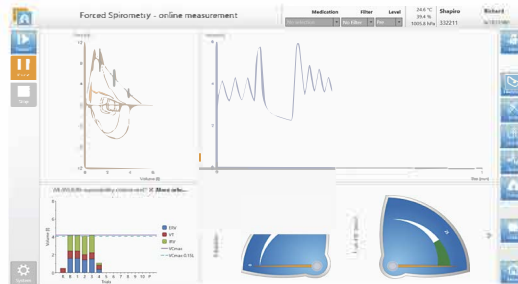
The all-powerful and user-friendly LFX software provides customers with

- Data exchange at will
- Modern, self-explaining graphics elements
- Complete Windows programming
- Network capability
- HL7 interface (option)
- DICOM solutions (option).

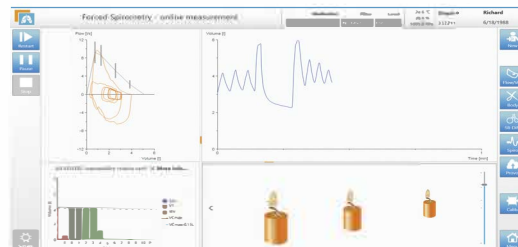
Report Page FVC



Incentive Screens
"Keep it in the Green"



"Blow the Candles"



SpiroScout

Ultrasonic Spirometer



MERCOFRAMES OPTICAL CORP

5555 Nw 74 Ave. Miami, Fl 33166 305-882-0120

www.mercoframes.com sales@mercoframes.net



The Art of Diagnostics

SpiroScout

Ultrasonic Spirometer

Ultrasound based solution for the diagnose of obstructive and restrictive pulmonary diseases.

Modern ultrasound-hardware and latest Windows based programming techniques enable our SpiroScout to fulfill requirements which are needed to offer a user-friendly spirometry solution. Ganshorn developed LFX on the basis of state-of-the-art Windows tools like .Net, C#, Microsoft SQL database.



But there's more. According to your particular needs, it accomplishes requirements by:

REAL TIME EXHALED GAS DETERMINATION with a resistance free measuring-sensor

REAL TIME ATP – BTPS CALCULATION: The correction factors are calculated during the measurement.

CALIBRATION FREE ULTRASOUND-FLOW-SENSOR Save time and conduct more measurements

ATS/ERS COMPLIANCE EVALUATION - Fully conforms to Gold Standards.

EASY USE - Change mouthpiece and get started.

MAINTENANCE FREE - Clean and high-precision via ULTRASOUND Technology.

PORTABLE - Perform measurements in your praxis or on the field.

Standard measuring applications:

FVC Spirometry with Volume time graphs and Flow – Volume Loops
SVC Spirometry
ATS Compliance evaluation

Technical Data

Flow-Measurement

Principle	Time
Measuring range	0 to ± 18 L/s
Accuracy	$<\pm 2\%$ or 0.03 l/s
Resolution	0.001 l/s

Volume-Measurement

Principle	Digital Integration
Measuring Range	Not limited, autoscaling feature
Accuracy	$\pm 2\%$ or 0.05 L
Resolution	1 mL

Measuring range of the ambient sensors

Ambient temperature	0 to 50 °C
Atmospheric pressure	500 to 1050 mbar
Humidity	10 % to 90 % rel. (no condensation)

Ambient conditions

Ambient temperature	+15 to +35 °C
Atmospheric pressure	700 to 1050 hPa
Relative humidity	30 to 80% (no condensation)
Max. warm-up time	0 (not measurable at stable ambient conditions)
Max. temperature gradient	3 °C/hour

Dimensions

Device	18 cm x 9 cm x 9 cm (W x H x D)
Weight	1000 g (ScoutSensor 185 g, base station 730 g, cable 85 g)

Spiroscout Mouthpiece

Dead space, complete	0.002 kPa/l/s, 18 cm ³ (pediatric inlet available)
Material	Polyethylene

Computer Interface

Data transfer to PC	USB 2.0
USB connection	Connector A - connector B double shielded, 2x AWG24, 2 X AWG28

Power Supply

Standard	Powered via USB 2.0 Voltage 4.5 to 5.25 V DC Power Supply: 500 mA
Option	External AC Adapter

Standards

Quality Management	ISO 13485
FDA	510(k) market clearance
MDD 93/42/ECC	CE Marked
Electrical safety	EN 60601-1 (Third Edition)