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”

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SpireScout

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 SpireScout 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
Measuring range 0 to ± 18 L/s
Accuracy <±2% or 0.03 l/s
Resolution 0.001 l/s

Volume-Measurement
Principle Digital Integration
Measuring Range Not limited, autoscaling feature
Accuracy ± 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)

Spiroscoout Mouthpiece
Dead space, complete 0.002 kPa/l/s, 18 cm3 (pediatric inlet available)
Material Polyethylene

Computer Interface
Data transfer to PC USB connection

Power Supply
Standard
Option

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