

MicroLoop Spirometer

The World's Most Advanced Hand Held Spirometer

Developed specifically for the professional, the next generation MicroLoop employs Micro Medical's acclaimed precision Gold Standard Digital Volume Transducer which is especially suited to measuring the very low flow rates seen in patients with COPD.

The MicroLoop features a high definition color touch screen that can display either a Volume/Time curve, a complete Flow/Volume loop or a child incentive graphical display.

The MicroLoop can measure up to 41 spirometry parameters and has a database storage capacity for over 2,000 patients.

The MicroLoop has a desktop docking station that makes battery charging and connection to a PC for data upload and printing the results quick and simple.

The optional Spirometry PC Software provides expanded data storage capabilities, printing and trend analysis.

The versatile MicroLoop spirometer offers a comprehensive range of advanced features normally only seen on expensive pulmonary labs and is shipped complete with all necessary accessories in a sturdy carrying case.



Features

- Gold Standard Transducer
- Touch Screen Color Display
- Fast On-Screen Text Entry Enabling Comments
- Child Incentive (3 available)
- Desktop Docking Station For Battery Charging and PC Connection
- 41 Test Parameters
- 2000 Patient Test Memory
- Pre/Post Bronchodilator Comparison
- Choice of Predicted Values and Languages
- Diagnostic Interpretation and Estimated Lung Age
- On-screen Test Quality Prompts
- Spirometry PC Software, #SPC1000 (Optional)
- 2-Year Parts and Labor Warranty
- Order Catalog #ML3535

Technical Specifications:

Product:

MicroLoop Mk8

Model Number:

ML3535

Parameters Measured:**Forced**

VC, FEV_{0.75}, FEV₁, FEV₃, FEV₆, FVC, PEF, FEV_{0.75}/VC, FEV_{0.75}/FVC, FEV₁/VC, FEV₁/FVC, FEV₃/VC, FEV₃/FVC, FEV_{0.75}/FEV₆, FEV₁/FEV₆, FEF₇₅, FEF₅₀, FEF₂₅, FEF₂₅₋₇₅, FEF₅₀/VC, FEF₂₅₋₇₅/FVC, FIV₁, FIVC, PIF, FIV₁/FIVC, FIF₂₅, FIF₅₀, FIF₇₅, FEF₅₀/FIF₅₀, FEF₅₀/FVC, MET₂₅₋₇₅, FET, MVV (ind)

Relaxed

EVC, IVC, IC, VT (TV), Ti, Te, Ti/T_{tot}, VT/Ti (TV/Ti), IRV, ERV, FR

Tests per subject:

5 relaxed VC maneuvers and 8 forced maneuvers for each baseline and two post examinations

Predicted Normals:

Selectable: Knudson, Crapo, NHANES III, Polgar, Pereira, Pereira 06, ECCS, Berglund, Austrian, Berglund, Eigen/Crockett (Australia), Gutierrez, Hedenstrom, Roca, Taiwan, Quanjer GLI (2012), Koillnen/Viljanen, Filipinos, Mexican, Thailand, Indonesian, New Zealand, Japanese (Old Standard, 2001 and Combined)

Transducer:

Micro Medical Gold Standard Bi-Directional Digital Volume

Resolution:

10 ml volume 0.03 l/s flow

Accuracy:

+/- 3% to ATS recommendations - Standardization of Spirometry ATS/ERS 2005 Update

Storage:

2000 patients with tests including Flow Volume loops and Volume Time graphs.

Power Supply:

Input: 100-24V AC 50-60 Hz
Output: 12V 2.5A

Battery Pack:

Rechargeable Lithium Polymer
3.7v 1600mAh

Dimensions:

Unit: 4.5" x 3" x 1"
Transducer: 2" x 2.25" x 3.5"

Weight:

Unit: 6.74 ounces
Docking Station: 4.37 ounces

Temperature:

The instrument will operate in a uniform environment of 32 to 104 degrees Fahrenheit, out of direct sunlight

Operating Humidity:

30% to 90% non-condensing

Storage Temperature:

-4 to 158 degrees Fahrenheit

Storage Humidity:

10% to 90% Relative Humidity

Connectivity:

RS232 serial and USB 1.1

Ordering Info:

Catalog #:

ML3535	MicroLoop Spirometer
SPC1000	Spirometry PC Software
3325	3L Calibration Syringe
3385	SpiroSafe Filters (Bag of 100)
3395	MicroCheck Mouthpieces (Box of 200)
3314SB	Cardboard Mouthpieces (Box of 200)
3314B5	Cardboard Mouthpieces (Box of 500)
3397	Plastic MicroCheck Mouthpieces (Box of 200)
PSA1100	Pediatric Mouthpiece Adapter
3301	Pediatric Mouthpieces (Bag of 100)
3304	Nose Clips (Bag of 20)
46-70	Protex Disinfectant Wipes (120/canister)

**Distributed By:**

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The MicroLoop (Cat. No. ML3535) is part of an extensive range of respiratory monitoring equipment offer by Micro Direct Inc.

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