



ASTROTOUCH SPIROMETER TECHNICAL SPECIFICATIONS

Forced Parameters Measured

Forced Vital Capacity:

FVC, FEV1, FEV1/FVC, PEF, FEF50%FEV6, FEV1/FEC, PEF,
FEF50%, FEF25-75%, FEV6,FEV1/ FEV0.5, PEFT, Vext, FIVC,
FIF50%, FEF50/FIF50, QC Grades, FEV .5, FEV3,
FEV .5/FVC,FEV3/ FVC,FEV1/VC, FEV1/FEV6, FEV1/PEF,
FEV1/FIV1, PEF/PIF, FEF25%, FEF75%, FEF75-85%, FET25-75%,
FET100, FIV1, FIV1/FIVC, PIF, MTT, MVVInd, Lung age

MVV:

MVV, Br./min

Bronchoconstriction:

FVC, FEV1, PEF, FEF25-75%, PDx

Relaxed Parameters Measured

VC:

VC, TV, ERV, IRV, IC, Ti, Te, Tt, Ti/Tt

Maneuvers per patient:

8 total; best test and last test highlighted

Interpretation:

Selectable -- Kory, Miller, ATS, NLHEP (Ferguson)

Predicted sets:

Selectable -- 16 Total

Ethnic correction:

Selectable -- % Actual, Caucasian, Hispanic, AfroAmerican

Language:

Selectable -- English, Spanish or French

Measurement Scale (BTPS)

Flow range:

0-16 L/sec

Volume:

0-10 L

Measurement method:

Infrared Interruption via Digital Turbine

Dynamic flow resistance

<1.5 cm H2O/L/sec @14 L/sec

Measurement Precision (BTPS)

At highest volume:

+/- 3% or 50 mL

At highest flow:

+/- 5% or 150 mL

Time related precision:

.5%

Volume resolution:

<6 mL

Sampling frequency:

50 Hz

Hardware Specifications

Storage capacity:

3000+ study database

Display:

5.7" High resolution color VGA touchscreen

Communication:

USB to printer and PC, RS232, HL-7*

Dimensions:

7.7" x 10.6" x 3.9"

Weight:

3.7 lbs.

Power supply:

110 to 240V, 50 to 60 Hz or NiMH battery pack

Storage Temperature:

-4 to 158 F

Printer:

110 mm thermal graphic printer

Optional

Ethernet I/O

Bluetooth to PC

Flex Pulse Oximetry module and program (ask for indices)

NiMH battery/charger pack

Calibration syringe

MIP/MEP

Weather Station (Barometric Pressure, Temperature, Humidity)

Sniff -- Rhinomanometry

Carrying Case

