

Astra³⁰⁰™

Portable Touch Screen Spirometry from SDI

The Astra300 puts the sophistication and simplicity of a touch screen in the palm of your hand. Enter data, test patients, and send and print reports with precision and ease. Easily report your choice of up to 40 spirometry test parameters, all measured accurately and precisely.



FREE Telephonic
In-Service &
FREE Telephone Support for
Life of the Device

The Touchscreen Makes it Easy.
SDI Makes it Accurate.

- Bright, sensitive touchscreen with Stylus
- Multifunctional capabilities
- View both graphic and tabular data
- Easy to use
- Export test data to a PC via USB
- Optional Bluetooth-to-PC



Carrying Case

Free padded, high impact plastic carrying/storage case keeps unit and accessories together and ready to use.



AstraGuard Filters

FREE box of 50 **AstraGuard PFT filters**, designed specifically for the Astra300, included with every purchase!



DIAGNOSTICS

The Spirometry Source

CALL 1-800-678-5782

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ONLINE www.sdidiagnostics.com

Astra300™ Spirometer

Technical Specifications

Forced Parameters Measured

Forced Vital Capacity: FVC, FEV_{.5}, FEV₁, FEV₃, FEV₆, FEV₁/FVC, FEV₁/FEV₆, FEV_{.5}/FVC, FEV₃/FVC, PEF, FEF25, FEF50, FEF75, FEF25-75, FEF 75-85, FET, FEV₁/FEV_{.5}, FEV₁/PEF, MIF50, FIVC, FIV₁, FIV₁/FVC, FEV₁/FIV₁,PIF, MTT, PEV/PIF, Lung Age

MVV: Br/min

Relaxed Parameters Measured

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

Maneuvers per patient: 5 total; best test and last test highlighted

Interpretation: Selectable – Kory, Miller, ATS, NLHEP (Ferguson)

Predicted sets: Selectable – 14 Total

Ethnic correction: Selectable – % Actual, Caucasian, Hispanic, AfroAmerican

Language: Selectable – English or Spanish

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

Precision of Measurements (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: 1000 study database

Keyboard: Alphanumeric LCD touch screen

Communication: USB to PC

Optional: Bluetooth to PC

Dimensions: 5.75" x 3.25" x 4.0"

Power supply: 2 x 1.5 DC Alkaline or NiMH batteries

Weight: 9 oz (250 g)

Optional

NiMH battery/charger pack

Calibration syringe



AstraGuard PFT Filters
Designed exclusively for Astra Spirometers. Free starter pack of 10 filters included with every Astra300.



Cross-section of filter shows placement of interior media. Edge of media is bonded to exterior housing to form a tight seal.



The filter media is tailored to fit inside every mouthpiece, providing an effective guard against cross-contamination.



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Astra[★]300™ Features and Benefits

Multifunction testing capability	Tailor your testing modality as needed
Program flexibility	Choice of custom or pre-set programs
Bright LED touchscreen display & Stylus	Facilitates patient data entry. Easy-to-read data, comments and interpretation
Flow-trigger, patient-initiated testing	Enhanced patient cooperation
AstraPro Software included	Download data, perform testing and communicate with your EHR system
Measures over 40 parameters of FVC, VC and MVV	Choose only the values needed for diagnosis
Optional Bluetooth to PC	Speedy wireless interface for interactive testing
Internal temperature sensor	Automatic BTPS correction
Choice of 14 Predicted Authors	Race specific equations/Ethnic correction
Direct USB PC interface	Fast and easy documentation
Full size report printouts	Necessary for reimbursement
Firmware upgrades at no charge	Maintain up-to-date standards and features
Test quality assurance prompts	Insures reliable test results
Automatic interpretation	Aids in rapid diagnosis
AccuFlo Digital Turbine	Accurate and precise measurements
Automated maneuver acceptability	Assures repeatability
Attractively priced	Superior investment to income ratio
No proprietary disposables	Low cost per test, lower cost of ownership
Audible end-of-test alert	Assures accurate results