

Alpha Spirometer

All-in-one V-Core™ spirometer providing **accurate** and **versatile** testing, with integrated printer and EMR connectivity.



Point-of-care spirometry – informing your respiratory care decision-making

Spirometry is the term given to the basic lung function tests that measure the air that is expired and inspired. It is performed to detect the presence or absence of lung disease, quantify lung impairment, monitor the effects of occupational/environmental exposures and determine the effects of medications.¹

Point-of-care testing allows the performance of a test in the immediate vicinity of a patient, providing rapid results. Simple and non-invasive, point-of-care spirometry testing is suitable for multiple healthcare settings, outside the conventional laboratory environment.

Highly accurate, reliable spirometry in a clinic, or on the go

The Alpha delivers highly accurate, reliable spirometry compliant with ATS/ERS 2019 standards for accuracy and test quality.

Ideal for testing on the go or in a clinic, the Alpha provides multiple testing options, connects to Vitalograph Device Studio and Spirotrac® 6 software to generate PDF reports, and has a quick-loading integrated thermal printer.

Vitalograph Connect enables versatile connectivity to your electronic medical records, ensuring that test data is easily shared.



Multiple testing options

Test Modules	Description	Parameters*	Onscreen Graphs
Forced Vital Capacity	The total volume of air that can be exhaled during a maximal forced expiration effort.	FVC, FEV₁, FEF₂₅₋₇₅, PEF, etc	<ul style="list-style-type: none"> • Flow / Volume / Time • Volume / Time
Vital Capacity	The total volume of air that can be exhaled during a normal expiration effort.	VC, IC, IVC, TV	<ul style="list-style-type: none"> • Bar Chart • Volume / Time
Bronchodilator Responsiveness Testing	Determines the degree of improvement of airflow in response to bronchodilator administration as measured by changes in FEV ₁ and FVC.	VC, FVC, FEV₁, FEF₂₅₋₇₅, PEF, etc	<ul style="list-style-type: none"> • Pre-Post Flow / Volume • Pre-Post Volume

Robust, versatile, connected.

Reliable Data Accuracy

- Powered by V-Core™ flowhead measuring technology for testing that is accurate, repeatable, easy to use, and safe.
- Accuracy meets the performance standards ATS/ERS 2019, ISO 23747:2015 & ISO 26782:2009.

Versatile Connectivity

- Bi-directional data exchange to EMR achieved through Vitalograph Connect.
- Compatible with HL7, GDT and several regional specific protocols.
- Multiple connectivity options, including wireless and USB.
- PDF reporting and interpretation software included.

Hygienically Efficient

- Low running costs: no disposable sensors, turbines, or flow tubes.
- Single-use Vitalograph Bacterial Viral Filters (BVF™) with validated cross-contamination efficiency >99.999% protect device, patient, and operator.

Enhanced Testing Guidance

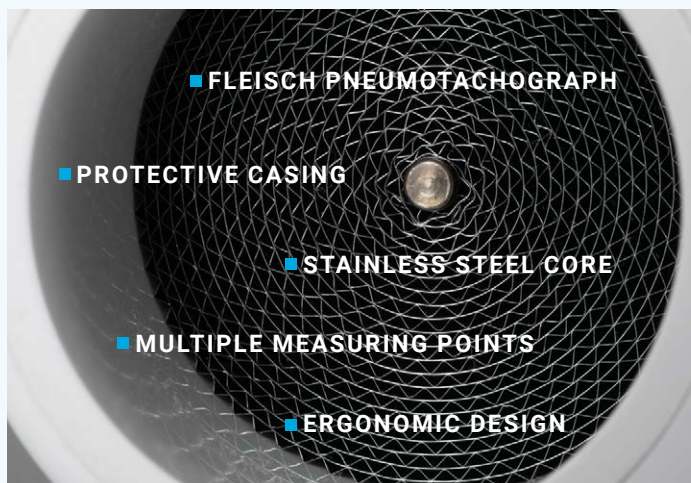
- Animated incentive to aid blow effort.
- Real-time flow/volume onscreen graphics.
- Instant test quality feedback.
- Fast evaluation of results with %Predicted comparison, LLN and Z scores.
- Latest GLI predicted sets.

Designed for everyday use

- Powered by mains or rechargeable battery.
- Memory capacity for more than 20,000 tests.
- Highly portable and lightweight.
- Robust V-Core flowhead design.



Be free to help your patients perform spirometry



The Alpha has an integrated **V-Core™** flowhead, allowing you to focus on helping your patients achieve their best spirometry test, confident that you are capturing accurate and reproducible results.

V-Core Flowhead Technology is:

- Accurate
- Repeatable
- Robust
- Safe
- Comfortable

2019
ATS/ERS
Spirometry Technical
Standards
Compliance

Technical Specifications

Product: Vitalograph Model 6000 Alpha

Model: 6000

Dimensions: 204mm (length) x 253mm (width)

Weight: 1.5kg

Communications: USB (Device Studio & Spirotrac 6), Ethernet/WiFi (Connect)

Flow detection principle:

Fleisch type pneumotachograph

Essential performance test limits:

Flow accuracy: $\pm 10\%$ or $\pm 20\text{L/min}$ of the reading (ISO 23747:2015)

Volume detection: Flow integration sampling @100Hz

Maximum test duration: 90 seconds

Maximum displayed volume: 10L

Volume accuracy: $\pm 2.5\%$ ATS/ERS 2019, ISO 26782:2009

Power supply: Input 100-240V, 50/60Hz Output 12V, 1.5A, Battery: 7.2V, 2.2Ahr

Accuracy when operated in operating temperature range conditions: Flow $\pm 10\%$, Max. flow rate $\pm 16\text{ L/s}$, Min. flow rate $\pm 0.02\text{ L/s}$

Safety standards: EN 60601-1:2006 +A1:2013 +A2:2021

Performance standards: ATS/ERS 2019, ISO 23747:2015 & ISO 26782:2009

Printer type: Thermal

QA/GMP standards: EN ISO 13485, FDA 21 CFR 820, CMDR SOR/98-282 & Japan's PMD Act

Test parameters measured:

VC Test: VC, EVC, IVC, TV, IRV, ERV, IC

FVC Test: VC, FVC, FIVC, FIVC/FVC, FEV_{0.5}, FEV_{0.5}/FVC, FEV_{0.75}, FEV_{0.75}/FVC, FEV₁, FEV_{1R}, FEV₁/VC, FEV₁/EVC, FEV₁/IVC, FEV₁/FVC, FEV₁/FIVC, FEV₁/FEV₆, FEV₁/PEF, FEV₃, FEV₃/VC, FEV₃/FVC, FEV₆, PEF L/s, PEF L/min, FEF₂₅, FEF₅₀, FEF₇₅, FEF_{0.2-1.2}, FEF₂₅₋₇₅, FEF₂₅₋₇₅/FVC, FEF₇₅₋₈₅, FIV₁, FIV₁/FVC, FIV₁/FIVC, PIF L/s, PIF L/min, FIF₂₅, FIF₅₀, FIF₇₅, FIF₅₀-FEF₅₀, FEF₅₀-FIF₅₀, MVVind, FMFT, FET, FRC, TV, RV, TLC, IRV, ERV, IC, Rind, ELA, tPEF, EV, EV/FVC

Ordering information

Product Model Number	Customer Order Number	Product Description
6000	69002	Vitalograph Model 6000 Alpha

Optional extras/ Consumables

Product Model Number	Customer Order Number	Product Description
2040	36020	3-L Precision Syringe
2820	28554	Eco BVF with Bite Lip (75)
	28553	Eco BVF with Bite Lip + Disposable Nose Clip (75)
	28501	Eco BVF (100)
	69140	Alpha Printer Paper (10 rolls)
7000	70902	Spirotrac 6 Software



Free 5-Year warranty included with product registration.

Contact us

Our customer service team are available for telephone support on sales, technical queries or information requests.

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