Alpha Spirometer

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

A Global Leader in **Respiratory Diagnostics**

vitalograph.com

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.

Conditions that benefit from point-of-care spirometry testing include:
COPD | Respiratory Tract Infections | Lung Cancer | Asthma | Many other respiratory-related conditions

Highly accurate, diagnostic spirometry in a clinic, or on the go.

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

The Alpha provides multiple testing options, has a quick-loading integrated thermal printer, and connects to Vitalograph Device Studio to generate PDF reports.

Integration with Spirotrac 6 respiratory diagnostic software enables test data to be centralised for detailed reporting and trending.

A large touch screen enables the clinician to actively coach the patient and to give instant feedback on effort and test quality

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, FEV$_1$, FEF$_{25-75}$, PEF, etc**	• 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**	• Bar Chart • Volume / Time
Post Test	Repeat VC and/or FVC tests to identify changes in FEV$_1$ and FVC between pre- and post- tests for a patient.	**VC, FVC, FEV$_1$, FEF$_{25-75}$, PEF, etc**	• Flow / Volume / Time • Volume / Time

1 Moore VC. Breathe 2012; 8: 232–240

* See technical specifications for all parameters

Robust, versatile, connected.

Exceptional 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.
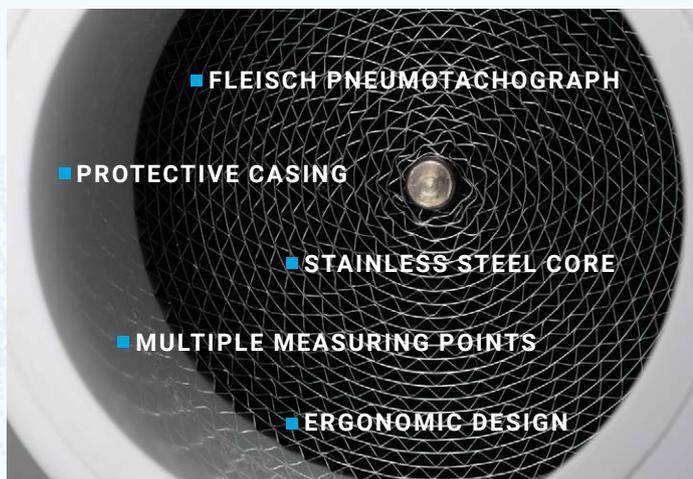
Enhanced Testing Guidance and Interpretation

- 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.

Seamless 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.

Designed for everyday use

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

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.

Be free to help your patients perform spirometry

FLEISCH PNEUMOTACHOGRAPH

PROTECTIVE CASING

STAINLESS STEEL CORE

MULTIPLE MEASURING POINTS

ERGONOMIC DESIGN

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

A Global Leader in Respiratory Diagnostics

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
Flow Accuracy: ±10% or ±20L/min of the reading (ISO 23747:2015)
Volume detection: Flow integration sampling @100Hz
Maximum test duration: 90 seconds
Maximum displayed volume: 10L
Volume accuracy: +/- 2.5% ATS/ERS 2019, ISO 26782:2009
Power supply: Input 100-240V, 50/60Hz Output 12V, 1.5A, Battery: 7.2V, 2.2 Ahr
Accuracy when operated in operating temperature range conditions: Flow ±10%, Max. flow rate ±16 L/s, Min. flow rate ±0.02 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, FEV_1, FEV_1R, FEV_1/VC, FEV_1/EVC, FEV1/IVC, FEV_1/FVC, FEV_1/FIVC, FEV_1/FEV_6, FEV_1/PEF, FEV_3, FEV_3/VC, FEV_3/FVC, FEV_6, PEF L/s, PEF L/min, FEF_{25}, FEF_{50}, FEF_{75}, $FEF_{0.2-1.2}$, FEF_{25-75}, FEF_{25-75}/FVC, FEF_{75-85}, FIV_1, FIV_1/FVC, FIV_1/FIVC, PIF L/s, PIF L/min, FIF_{25}, FIF_{50}, FIF_{75}, FIF_{50}-FEF_{50}, FEF_{50}-FIF_{50}, MVVind, FMFT, FET, FRC, TV, RV, TLC, IRV, ERV, IC, Rind, ELA, tPEF, Text, 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)
	661490	Thermal Printer Paper (10 rolls)
7000	**70902**	Spirotrac 6 Software

5 YEARS WARRANTY

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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