

Spirotrac 6 Software

Consolidate both Spirometry and ECG through a single, flexible, and powerful software solution

Technical Specifications

Product	Vitalograph Spirotrac® 6
Model	7000
Performance standards	ATS/ERS 2019, ISO 23747:2015 & ISO 26782:2009
QA/GMP standards	EN ISO 13485, FDA 21 CFR 820, SOR/98-282, Japan's PMD Act
Minimum PC System Requirements	Processor Speed: 2GHz or greater RAM: 2GB (Minimum), 8GB (Recommended) Disk Space: 1GB or greater Monitor: 1280 x 800 pixels minimum, higher recommended. Other: • USB Port for Pneumotrac or other compatible devices • Bluetooth support for Norav ECG • Mouse • 1 x ethernet port minimum for connection to Vitalograph Tremoflo C-100 device to perform Oscillometry • .Net framework 4.8 • If the .Net Framework version 4.8 is not already installed, this will require an additional 1GB (32-bit) or 2GB (64-bit) of hard disk space. If SQL Server Express is not already installed, this will require an additional 2GB of hard disk space
Operating Systems Supported	Windows 10, Windows 11
Test Types Supported	• Spirometry: Single breath testing, multi-breath testing. VC, Post VC, FVC, Post FVC, PCF • ECG: 12 lead 10 second trace • Respiratory Muscle testing: MIP, MEP, SNIP, MVV • Challenge Testing • Oscillometry • FeNO
Devices Supported	• Spirometry: Pneumotrac • Respiratory Muscle Strength: Pneumotrac with RMS • ECG: NR 1207 ECG

Technical Specifications (continued)

FVC Parameters	FVC, FEV ₁ , FEV ₁ /VC, FEV ₁ /FVC, FET, PEF, FEF ₂₅₋₇₅ , FEV ₆ , FEV ₁ /FEV ₆ , FEV ₁ Ratio, FEV ₁ Q, PEF(L/s), PEF(L/min), FIVC, PIF(L/s), PIF(L/min), TV, IRV, ERV, IC, FEV ₃ , FEV _{0.5} , FEV _{0.75} , FEV _{0.5} /FVC, FEV _{0.75} /FVC, FEV ₃ /FVC, FEV ₆ /FVC, FEF ₂₅₋₇₅ /FVC, FEF ₇₅₋₈₅ , FIVC/FVC, FEF ₂₅ , FEF ₅₀ , FEF ₇₅ , FIF ₂₅ , FIF ₅₀ , FIF ₇₅ , FEV ₁ /PEF, FIF ₅₀ /FEF ₅₀ , FIV ₁ , FEV ₁ /FIVC, FEV ₁ /IVC, FIV ₁ /FIVC, FIV ₁ /FVC, FEF ₅₀ /FIF ₅₀ , MVVind, BEV/FVC, EOTV, FMFT, IVC, FEFmax, FEV ₁ /HT2, RAWind, FEV ₃ /VC, TLC, RV, FRC, BEV, TExt, TPef, tRISE, tHES, Lung Age
VC Parameters	VC, EVC, IVC, TV, IC, ERV, TLC, RV, FRC
Predicted Values Selectable	GLI, ERS/ECCS; NHANES, GLI-RACE NUETRAL
Spirometry Incentives	Big Bad Wolf, Candles, Ball and Tube
Spirometry Interpretation	GOLD 2019 ATS/ERS 2005 interpretation, ATS/ERS 2021
Spirometry Reports	Report templates based on ATS 2017 Standardised Reports with multiple configuration such as logo, title, header, Best1 Test, Best3 Test, All Tests options
RMS Parameters	MIP, PIP, MEP, PEP, SNIP
ECG Parameters	HR, RR, ST, PR, PQ, QT, P, QRS, QTcH, QTcB, QTcF, QTcFra, P Axis, QRS Axis, T Axis
MVV Parameters:	MVV Time(s) , MVV L/min , VT (L), RR (B/min), VT/VC
FeNO Parameters:	FeNo (ppb)
ECG Interpretation	Glasgow Algorithm 
ECG Reports	3 x 4, 6 x 2, 12 x 1, Medians, Average
Oscillometry Parameters	R5, R7, R5-20, R7-20, AX, VT
Database Engine	Supplied with Microsoft SQL Server 2014 Express SP3. Compatible with Microsoft SQL Server 2014 and above
Database Options	Local SQL Server Database or Network SQL Server Database. Database backup on lock, logoff or shutdown
Database Migration/Import Options	Database Migration from Spirotrac 5
Security Options	User Management, User logon with password complexity, User Inactivity lock timeout, Audit Annotation, PII Data encrypted
Audit Trail	Full audit log of all activities date/time stamped by user
EMR Connectivity	HL7, GDT, EMIS WEB (England), FHIR via Vitalograph Connect
Trending Options	Max 4 parameters over selected date range
Device Classification	Class II (USA) / IIa (EU) medical device

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