

Cardiopulmonary exercise testing at its finest



Vyntus™ CPX metabolic cart

Striking the perfect balance between high tech flexibility that is easy-to-learn and easy-to-perform.

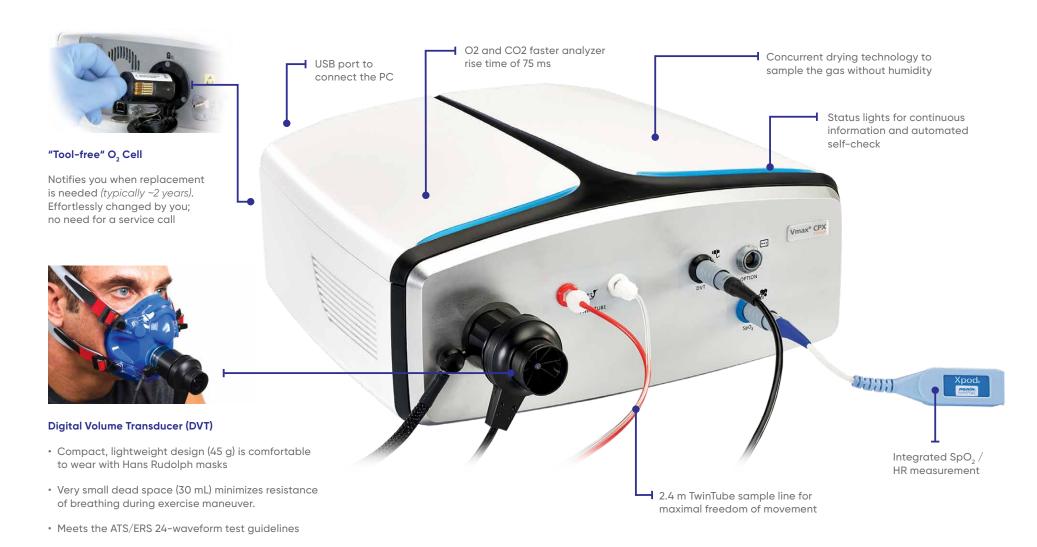
The versatile Vyntus™ CPX Metabolic Cart combines Vyaire's pioneering experience with the latest innovations, to deliver the newest generation of clinical cardiopulmonary exercise testing. Utilizing highly accurate sensors to collect full breath-by-breath gas measurement data, the system provides helpful guidance and tools to make it easier for technicians. And, the fully workflow-driven evaluation helps simplify and standardize data reporting for physicians.

- Digital Volume Transducer (DVT) compact, lightweight design with little dead space and minimal resistance to airflow in both cleanable and single-use, disposable options
- Automatic volume calibration ensures consistency, saves time and hassle
- On-board pulse oximetry with finger, ear-clip and forehead sensors
- Powered by SentrySuite[™] with cues and guidance during measurement and post-test workflow to help standardize evaluations and reduce time to results
- **Smart tools automate** processes for clinicians such as automatic slope calculations and automatic trending of patient data
- Utilities for customization including our extensive, global library of adult and pediatric predicted equations and our comprehensive report generation capabilities



Our CPX module

Packed with innovative, robust technologies and features that simplify and improve both testing and maintenance.



No syringe required! CPX automated volume calibration eliminates time-consuming and technique-dependent syringe calibration.

Interface your ECG for comprehensive CPET testing. Seamlessly.

Our flexible Vyntus™ CPX system integrates several commercially available ECG devices; including GE Healthcare CASE™ Exercise Testing System, CardioSoft™, Mortara, Welch Allyn, PBI and others. Vyntus CPX changes everything by changing nothing on your end.

Introducing Vyntus CPX Big Cinema

Vyntus CPX combined with GE Healthcare CardioSoft ECG creates an all-in-one device for a simplified, space saving solution.

CardioSoft™ ECG

- CardioSoft data automatically transfers to Vyntus CPX
- Acquisition module (CAM 14) connects to a standard PC USB port.
- Full Disclosure stores unfiltered, continuous ECG signals.



Vyntus CPX Standard Display

Whether it's the CASE system from GE Healthcare or other existing ECG systems, Vyntus CPX is the perfect compliment. Our standard single monitor display option allows you to view your gas exchange data while leveraging your already existing monitor for ECG.



Vyntus™ CPX Big Cinema.

All gas exchange and ECG information on a single screen. Just look.

- 1 Display your selected metabolic parameters
- View ongoing performance relative to predicted max values
- 3 Quick patient data access
- 4 Tabs to quickly switch to view different graphics
- 5 Manual override of bike or treadmill protocol
- 6 Real-time data with color-coded maximum predicted ranges
- 7 Countdown to upcoming submeasurement programs showing when next programmed events will occur
- 8 60 second view of patient breathing
- Pertinent ECG data is shared with SentrySuite automatically





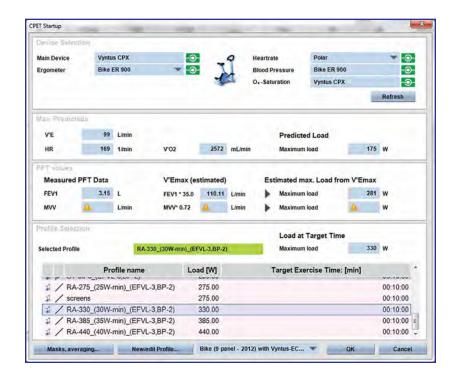


Pain-free, pre-test planning. Brought to you by SentrySuite™.

In CPET testing, pre-test set-up can be detailed and time-consuming. SentrySuite[™] provides easy to use tools for pre-exercise decision making and protocol modification. Plus, all pre-test questionnaire information can be collected via iPad and automatically uploaded to SentrySuite. Everything is right where you need it, when you need it most.

CPET Start-Up Menu: All Pre-Exercise Decisions on a Single Screen.

- Color-coded hardware connection check
- Provides suggested target load and automated protocol selection, based on measured PFT values and max predicted values
- Choose preferred test layouts, mask size, and breath averaging from start-up screen



Profile Editor Tool: Build powerful automated Protocol and Submeasurement Programs

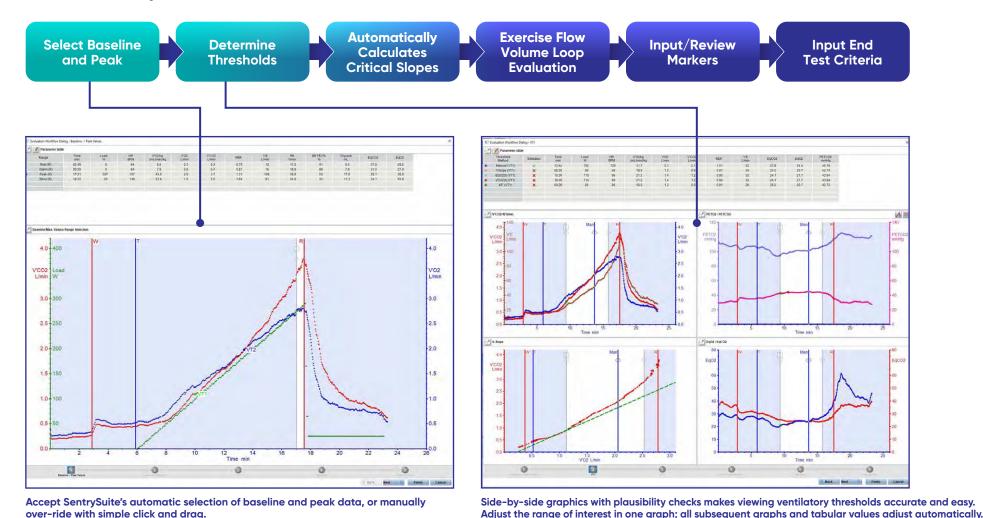
- Easily create individual ramp, step and weight dependent protocols
- Add measurements including automated BP, RPE, exercise flow volume loops, lactates, and blood gas
- Coordinated graphical and tabular representation of events
- Multi-stepdown recovery capability



And, intuitive step-wise evaluation for occasional and frequent users.

Using step-by-step guidance, SentrySuite™ makes post-test evaluation simple and systematic. Now, evaluation and interpretation can be standardized, reducing time to result. And, workflows can be configured for individual users in relation to desired tasks and sequences. For experts, SentrySuite also provides a easy post-test way to enter offline blood gases for automatic P(A-a) O₂ and VD/VT calculation.

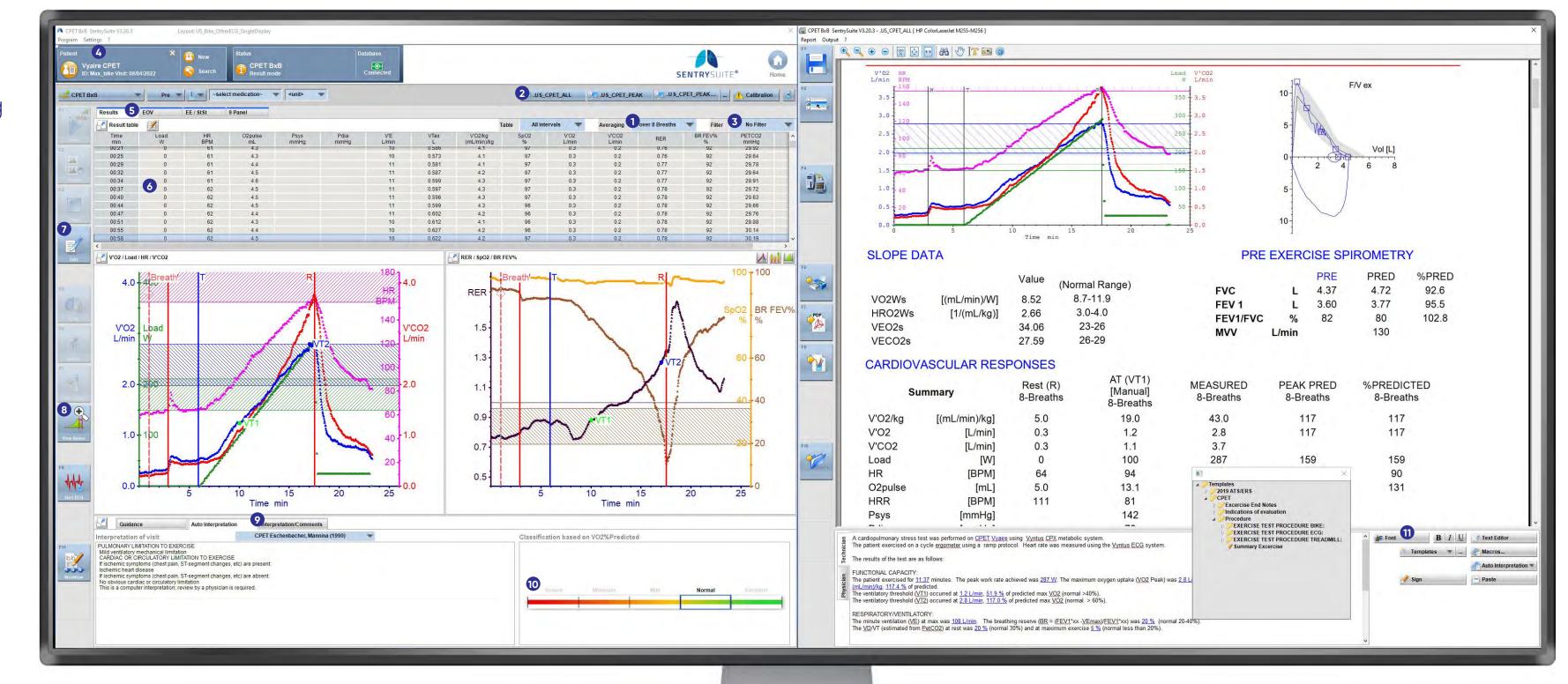
Workflow Steps



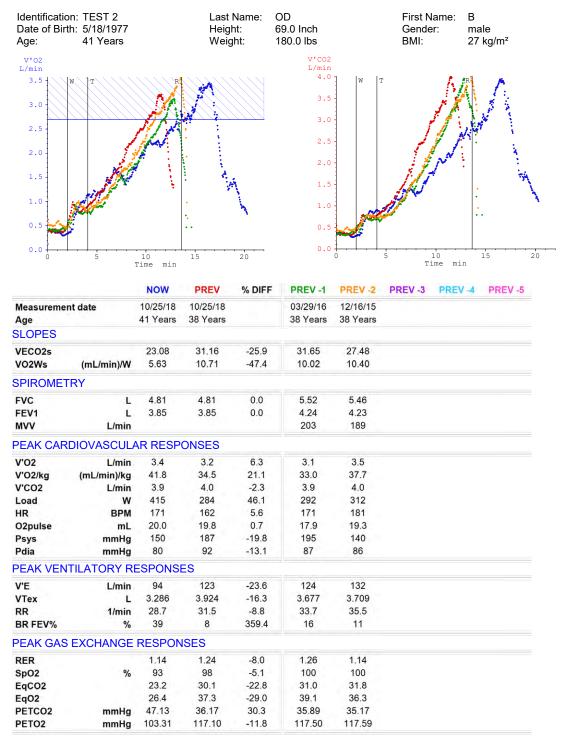
Focused and integrated.

Complete data review and reporting is both intuitive and automated.

- 1 Choose breath or time averaging
- 2 Quickly view, print or store reports
- 3 Quickly search for stored markers like e.g. lactate or blood gases
- 4 Quick patient-data access
- 5 Tabs to quickly switch to view different graphics
- 6 Tabular data with adjustable filtering/averaging
- 7 Start edit mode for thresholds, slopes, ranges or exercise flow volume loops (EFVL)
- 8 View/Hide recovery data from graphical displays
- Omments/interpretation tool with userdefinable templates and automated CPET interpretation included
- Oclor-coded classification bar based on V'O, Max predicted¹
- 11 Post-test Templates and Macros



CARDIOPULMONARY EXERCISE DATA COMPARISON- CURRENT TO PREVIOUS



Trending patient data over time is key.

SentrySuite™'s ability to compare a patient's metabolic data longitudinally, in both graphical and tabular forms, has taken on a whole new meaning in the post COVID-19 era. SentrySuite's unique ability is more powerful than ever.

Report Generation, our unique report designer, is both simple to use, and extremely comprehensive.

With SentrySuite™, eye-catching results available on every page.

Of course SentrySuite provides all standard reports, including the 9-panel graph. But where it really shines is its capacity to redefine how you visually present your data in more powerful and meaningful ways. Three great examples include our Exercise Flow Volume Loops, CPET comparison graph, and Dynamic Predicted Ranges.

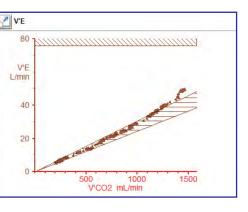
Exercise Flow Volume Loops

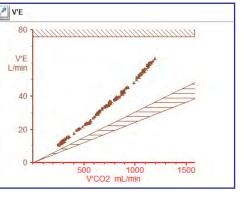
Quickly see dynamic airway hyperinflation and flow limitation by trending Flow/Volume and EILV/EELV throughout exercise.



Dynamic Predicted Ranges

Continually monitor VE/VCO₂ data during test.





Graph 1 shows a normal response to exercise and graph 2 shows an elevated response to exercise

Wide-ranging data viewing including easy selection of steady state data.

The ability to easily and quickly trend data is equally important when performing ongoing, routine QA protocols to assess the health status of your device. Here we are showing a Bio-QC bike 3-stage steady state protocol that is standard to SentrySuite™ profiles.



Resting Energy Expenditure

Simple mask methodology; no new hardware

Easily view when patient reaches steady-state conditions

Select up to four areas of steady-state showing data averages with coefficient of variation (CV)

Steady State Qualitative Analysis

Perform monthly as part of routine QA plan

3 simple bike steps under AT or use any published treadmill QA protocol

Average last 2 minutes of each step and compare to published norms

Expand your capability by combining Vyntus™ CPX with other devices.



GE CardioSoft® ECG



Tango® blood pressure monitor



Polar® Bluetooth® interface



Ergoselect 600P recumbent bike



Treadmill



VIAsprint® 150 / 200P cycle ergometer with / without BP

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