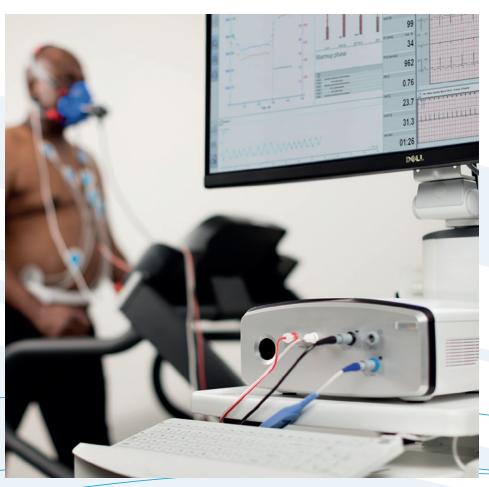


Vyntus® CPX and Vyntus® ECG Cardiopulmonary Exercise Testing

Vyntus CPX metabolic cart offers a step up in professional exercise diagnostics

The powerful Vyntus CPX is an accurate, reliable system that collects full breath-by-breath data and allows the determination of a subject's metabolic response. It can be used on adults and children, whether patients or athletes.

The Vyntus CPX is the result of over 50 years of experience in the development of CPET devices.

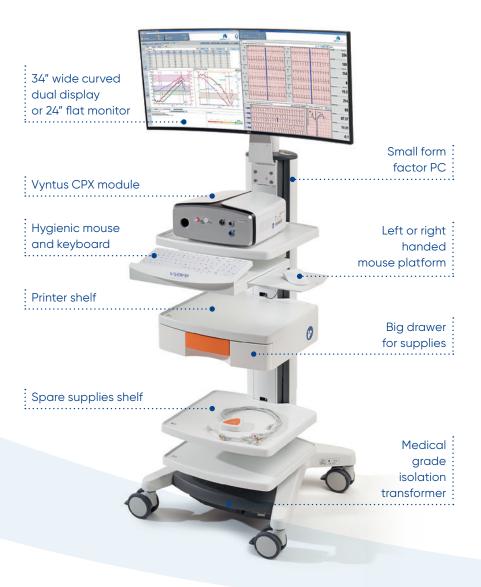


Vyntus CPX offers all essential CPET applications

- True breath-by-breath Cardiopulmonary Exercise Testing
- Spirometry, pre/post, animation and exercise flow-volume loops
- Integrated pulse oximetry with finger, ear-clip or forehead sensors
- High/Low FIO₂ optional
- Indirect calorimetry assessment (REE, FAT...) standard, canopy mode optional
- Combined legacy and new 9-Panel-Wasserman
 Graph and the possible limitation graph
- Three separate ventilatory threshold determinations, six automatic slope calculations and Tau calculation
- Online entry of RPE scale, blood gas marker, blood pressure or events
- Offline entry of blood gases with automatic calculation of related parameters [P(A-a)O₃, VD/VT calculated]
- Comprehensive Protocol Editor program for creating individual ramp, step and weight dependent protocols
- Report Designer program for customized reports
- Layout Editor program for adjusting graphs and parameter sets

Key features of the metabolic cart

Discover more of what the Vyntus CPX metabolic cart offers

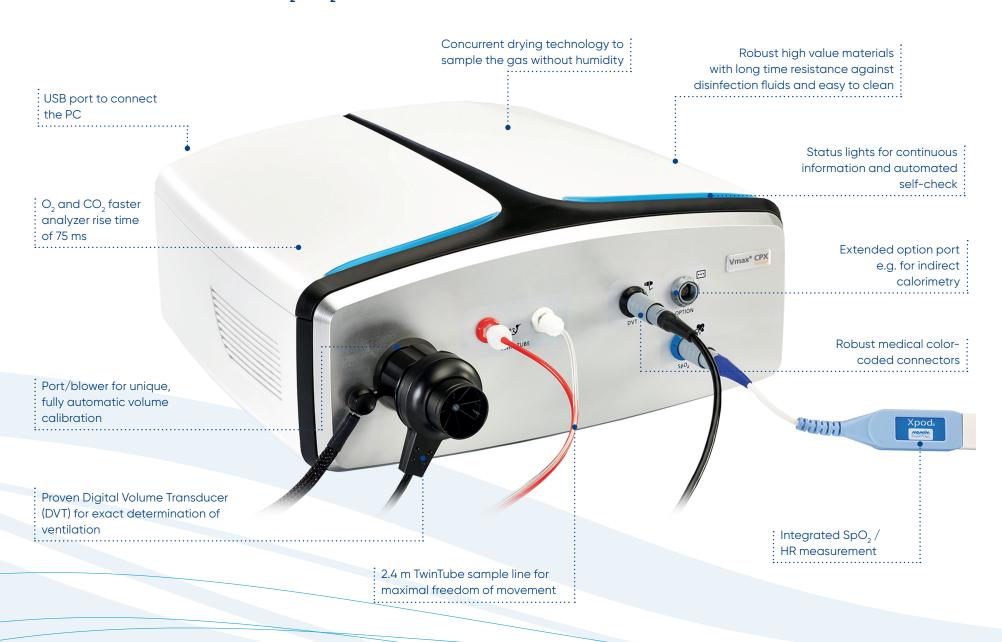


9-Panel Wasserman Graph



The Heart of the System -

the highly accurate and proven O_2/CO_2 analyzer









Automatic volume and gas calibration

Step away from the syringe with our fully automated flow/volume DVT calibration!

Gas calibration is automated:

- · Only one gas tank needed
- No moving of sample line to cal port anymore
- · Results include delay and response times

Digital volume transducer

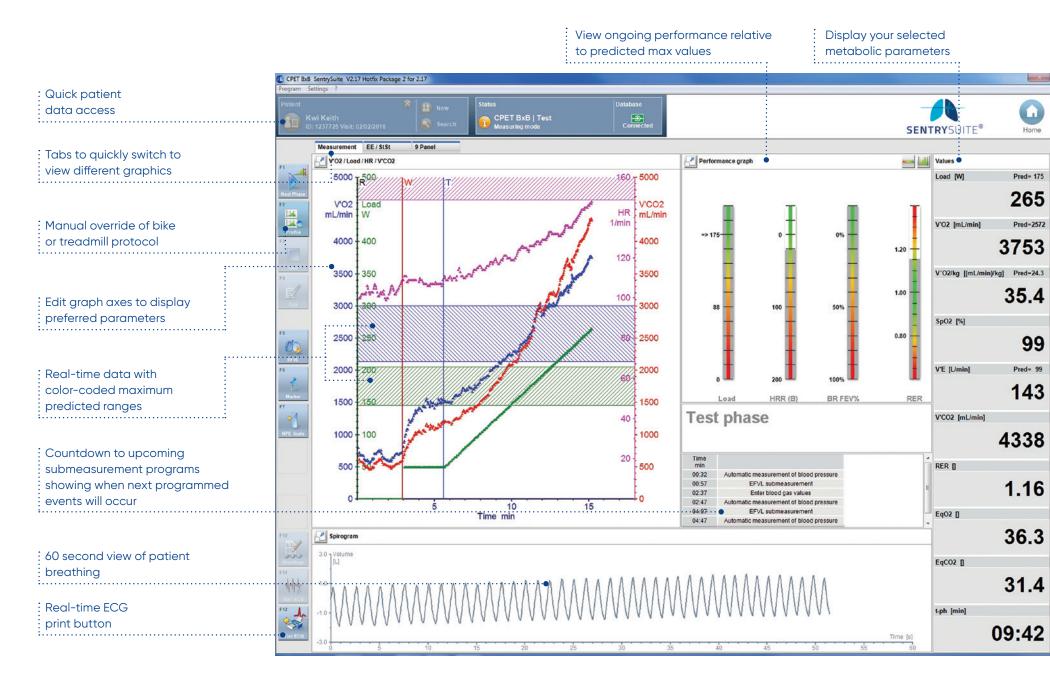
Our **lightweight** digital volume transducer (DVT) with **very small dead space** is the perfect choice for testing patients and high-level athletes.

The DVT flat-vane system doesn't have the lag of a turbine system or the need for laminar airflow like a traditional pneumotach. It adds minimal resistance to airflow and meets the 24-wave form test of ATS/ERS.

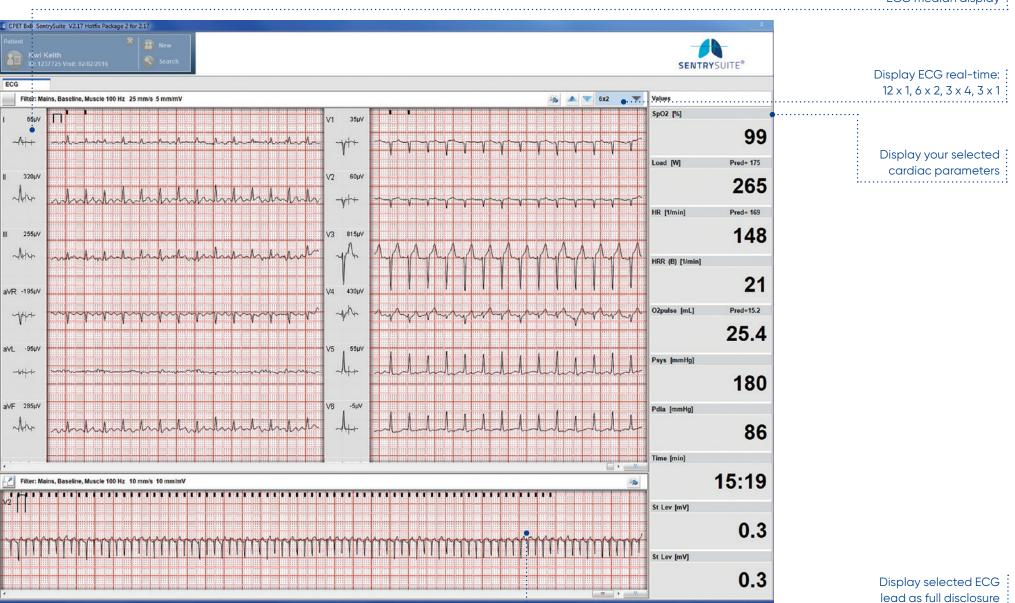
The DVT is comfortable to wear while exercising with **mask or mouthpiece**.

Easily swap out the oxygen analyser of your Vyntus CPX and you're set for another two years.

Vyntus CPX big cinema measurement features







Key post-test reporting features

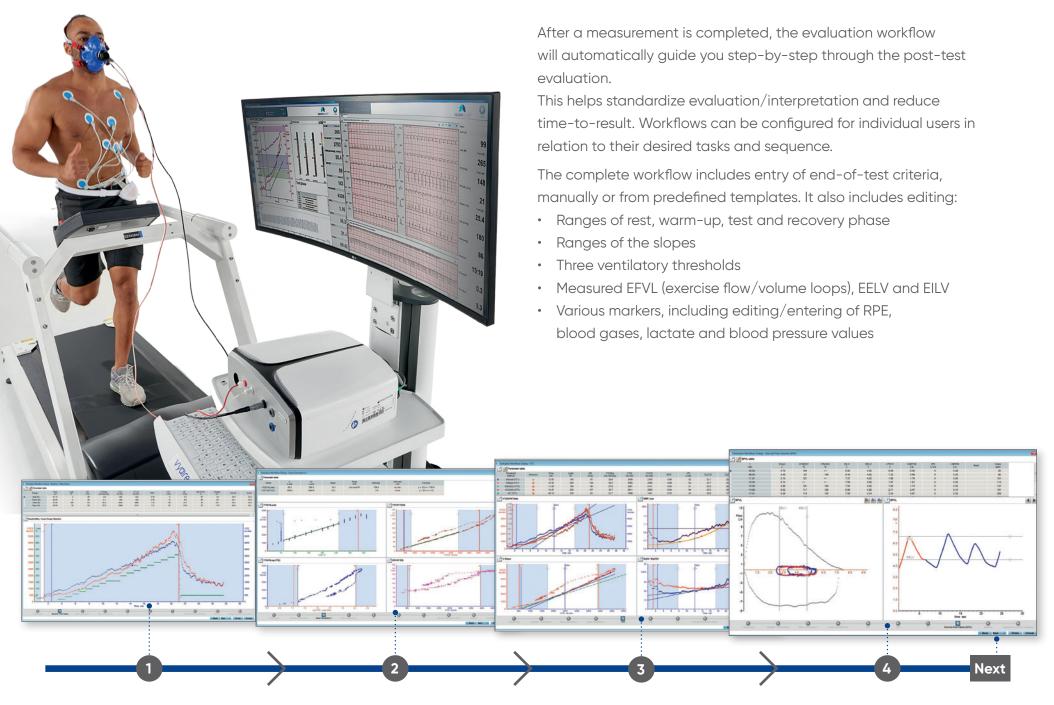


CPET result and evaluation screen

The CPET result and evaluation screen is designed so that the data and evaluation tools are laid out on one viewing screen, allowing faster and comprehensive CPET interpretations.



Vyntus CPX evaluation workflow – from beginners to experts



New interpretation features

Ventilatory thresholds

- Multiple threshold evaluations (VT1, VT2, VT3)
- Automatic or manually set calculation of each threshold with different methods in one view
- · Ability to modify upper and lower VT range
- · Plausibility check by viewing the threshold parameters

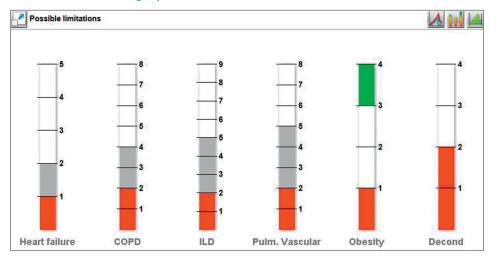
Possible limitations graph

Chart with six types of physiological conditions based on the interrelationship of nine parameters².

Exercise F/V loops graph

Evaluation of Exercise F/V loop (EFVL) including useful EELV/EILV trend graph for dynamic airway hyperinflation and flow limitation.

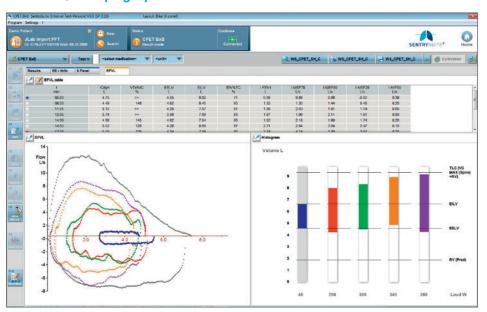
Possible limitations graph



Ventilatory threshold VT2



Exercise F/V loops graph





Vyntus ECG – Integrate ECG data into a single database

When you combine our Vyntus CPX with our Bluetooth Vyntus ECG you enjoy the power, functionality and ease-of-use of two comprehensive devices in **ONE** integrated diagnostic and monitoring solution.

ONE

- user interface
- network interface
- HIS connection

- combined report
- program to train
- central database

- Wireless and cable-free Bluetooth communication improves patient comfort.
- Full disclosure for storing unfiltered, continuous ECG signals with ability to look back during real-time data collection on any lead.
- Linked gas exchange data and ECG is time-aligned so you can move anywhere in study review and all screens follow.
- Go paperless! All data is available as a review station and can also populate into your EMR.

Resting ECG

Proven technology

Utilization of the proven Hannover ECG System® (HESstress) for automatic evaluation and analysis of signals.

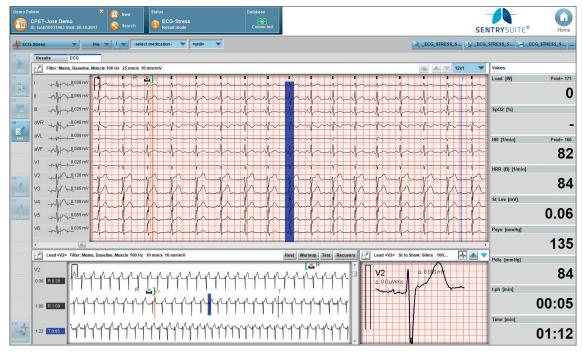
Repeatability check

Multi-trial resting ECG standard with Vyntus ECG.

Multiple configurations

Standard within the Vyntus CPX/ECG combo and available as stand-alone device or as option to each Vyaire device running SentrySuite software.





Stress ECG

Improved patient comfort

Bluetooth technology, small and light (220 g) ECG amplifier.

Flexible ergometer interface

Controls ergometers, treadmills as well as Tango blood pressure device.

Easy handling

All 12 channels with ST measurement, rhythm and complex window to scroll through.

Resting energy expenditure Optional Resting energy expenditure (REE) canopy module by mask, including fats, proteins, for indirect and carbohydrates contribution, is included in the software package. calorimetry Easily view when patient reaches steady-state conditions. Select up to four areas of steady state conditions showing data averages with coefficient of variation (CV).

Optional mixing chamber module



- The standard for exercise testing in athletes
- Patient friendly setup, accommodates temporary disconnection of patient for a drink
- Integrated and stackable to your Vyntus CPX
- Easy to disassemble and clean

The last missing puzzle piece in Cardio-Pulmonary Exercise testing.

Combine Vyntus CPX with other devices

Vyntus ECG



Tango® blood pressure monitor



GE CardioSoft® ECG



Polar® Bluetooth® interface



Ergoselect 600P recumbent bike



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



Treadmill





REFERENCES

- 1 Löllgen H, Erdmann E, Gitt AK. Ergometrie, Belastungsuntersuchungen in Klinik und Praxis. 3rd ed. Springer Medizin Verlag Heidelberg; 2010. doi: 10.1007 / 978-3-540-92730-3.
- 2 Progress in Respiratory Research. Basel. Karger. Weisman IM, Zeballos RJ eds. Clinical Exercise Testing. 2002;(32)300-322. doi:10.1159/000062230
- △ Where applicable country availability is dependent on the successful product registration with the National Authority of that country. Please read the complete Instructions For Use that come with the product.

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