



Extent of Supply

- MetaMax[®] II Portable CPX System
- Triple[®] V Volume Transducer
- Windshield
- Sample Line
- CORTEX Adult Face Mask Set (S, M, L)
- Adult Head Cap
- Polar[®] HR Set
- Battery Charger
- 2 Li-Ion Batteries small
- Power Supply for stationary use
- PC Connection Cable
- Telemetry Transmission Set
- SnipSnap Velcro Harness Set
- MetaSoft[®] CPX Software MS[®] Windows[®]
- Carrying Case
- User Manual



Options

Hardware

- CardioLyzer Ultra for bike or treadmill testing in the lab:
 - PC-Based 12-Channel ECG
 - Motion-Tolerant NIBP
 - Pulse Oximetry
 - 10-Lead Suction Electrode System
- CBP 2000 Portable NIBP System
- 1-Channel Monitoring ECG

Software

- CORTEX Statera
- CORTEX Zone Trainer
- Ergometer/ Treadmill Control
- Spirometry
- Nutritional Assessment
- Non-invasive Cardiac Output

Accessories

- Pediatric Face Mask Set
- Special Face Mask Set for cold/humid climate
- Battery Power Packs (Sprint, Medium, Marathon)
- Calibration Kit
- Computer / Notebook
- Color Printer
- Multi-function Trolley/Cart

Technical Specifications

Portable Cardiopulmonary Exercise System

Method	Dynamic mixing chamber
Size (L / B / H)	189 x 160 x 47 mm
Weight	790 g
Data logger	Capacity up to eight hours

Environmental/Electrical Conditions

Temperature	-20°C - +50° C
Pressure	500 - 1,200 mbar
Humidity	0 - 99 %
Battery	Lithium-ion, approx. 1 h each
Power Supply	Input: 100 - 200 V AC, 50 - 60 HZ Output: 7.5 V DC

Analyzers

Volume Transducer	Type:	Triple-V [®] turbine, digital
	Range:	0.05 - 20 l/s
	Resolution:	7 ml
	Accuracy:	2 %
O ₂ Analyzer	Type:	Zirconium
	Range:	0 - 25 % Vol.
	Accuracy:	0,1 Vol. %
CO ₂ Analyzer	Type:	Infrared
	Range:	0 - 10 % Vol.
	Accuracy:	0.1 Vol. %
Heart Rate	Polar [®] Belt or ECG (optional)	
ECG	1- or 12-channel ECG (optional)	


Telemetry (uni-directional)

Receiver	150x80x45 mm (L/W/H)
Frequency	433.125 MHz (others on request)
Range:	up to 1.000m
Size Transmitter	100 (L) x 55 (B) x 30 (H)mm
Weight Transmitter	130 g
Size Receiver	150 (L) x 80 (B) x 45 (H)mm
Weight	200 g
Optional:	bi-directional telemetry Frequency Selection (433.125 – 434.700 MHz; 64 channels)

Safety

Standards	EN 60601-1 (1996) EN 60601-1-1 (1994) EN 60601-1-1/A1 (1996)
Class	Class II, Type BF
EMC	EN 60601-1-2 (1994)
Conformity	Class II a (93/42/EWG; Appendix IX)

Quality

ISO 9001, EN ISO 13485,  0124

CORTEX Biophysik GmbH
Nonnenstr. 39
04229 Leipzig / Germany
Tel. +49 (0) 341 487 49-0
Fax +49 (0) 341 487 49-50,
email: info@cortex-medical.de
<http://www.cortex-medical.de>

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Design in Progress.

As a lightweight CPX system, which can be battery operated, portable MetaMax[®] II has been designed to cover a broader range of testing needs. In the lab, off-site or in the field.

Features & Benefits

- **Truly multi-function** CPX system suitable for any stress test environment - from bike/treadmill testing in the lab to off-site and field use.
- Precise, reliable measurement of a **wide range of volumes** and **breathing frequencies** (e.g. patients-athletes).
- Reliable **mixing chamber** analysis of key exercise data during **indoor and outdoor** activities.
- **Modular Li-Ion battery** concept to increase testing efficiency.
- Flexible “**SnipSnap**” Velcro harness, easy to fit on the back or in front, improving carrying comfort.
- Safe monitoring and test control from a remote location using **telemetry data transfer**.
- **Extensive datalogger** for offline use.
- **Simple operation** using color-coded cable/tube connections to reduce prep-up time to a minimum.
- **Easy-to-expand via optional hardware and software** (e.g. interface to connect treadmills, 12-channel ECG, NIBP, spirometry) for a complete functional analysis with one single test.
- **Quick access of test results**, comparisons and simple report generation using powerful MetaSoft[®].

