

# METALYZER® 3B

handy and precise

Cardiopulmonary exercise testing for diagnosis, therapy and prevention - this is the focus of our research and development activities. No matter what you choose, either a CORTEX metabolic standalone device for performance testing or a complete system for cardiopulmonary differential diagnostics, CORTEX measurement technologies in combination with our practical and high-performance software solutions are convincing.



## SCOPE OF DELIVERY

### METALYZER® 3B

- METALYZER® 3B Base Unit
- Triple V Volume Sensor
- Gas Sample Line
- Mask
- Mask Harness
- MetaSoft® Software; Dongle
- PC Connection Cable; USB / Serial Adapter
- Multinorm Power Supply
- Carrying Case
- Manuals on CD

## ACCESSORIES & OPTIONS

- 3 Channel ECG
- 12 Channel ECG
- Tango® +
- Ipod® / Xpod® , External SpO2 Module
- Personal-Use Mask incl. Mask Harness
- Calibration Set
- Workload Device (Treadmill; Bicycle)
- Software Options
- CORTEX-mobil (System Cart)
- PC / Notebook
- Color Printer

## MEASURING METHOD / SENSORS

Measuring method	Breath-by-Breath
Flow / Volume	Type Turbine digital
	Range 0.05 - 20 L/s
	Resolution 7 mL
	Accuracy 2 %
O <sub>2</sub>	Type Electro-Chemical Cell
	Range 0 - 100 Vol. %
	T <sub>90</sub> Time <100 ms
	Accuracy 0.1 Vol. %
CO <sub>2</sub>	Type ND Infrared
	Range 0 - 13 % Vol.
	T <sub>90</sub> Time <100 ms
	Accuracy 0.1 Vol. %
Heart Rate	Polar HR Set
	3 Channel ECG (optional)
	12 Channel ECG (optional)

## PHYSICAL SPECIFICATIONS

Dimensione (LxWxH)	235 x 165 x 85 mm
Weight	1100 g

## ELECTRICAL SPECIFICATIONS

PC Interface	Serial (RS232);
Power Supply	Input 100 - 250 V AC 50 - 60 Hz Output 12 V DC; 1.2 A

## OPERATING CONDITIONS

Warm-Up Time	approx. 30 min
Temperature	- 10° to max. +35° C
Ambient Pressure	500 - 1050 mbar
Relative Humidity	0 - 99 % (non-condensing)

## PRODUCT SAFETY

- Directive 93/42/EEC
- DIN EN 14971
- DIN EN 60601-1 / 60601-1-1 / 60601-1-2 / 60601-1-4
- CE 0124

## QUALITY MANAGEMENT

- Directive 93/42/EEC; Annex II; Section 3
- EN ISO 9001
- EN ISO 13485

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**CORTEX**

Medical · Sports · Fitness

# MetaSoft®

the core of CORTEX Systems

METALYZER® systems in combination with the MetaSoft® software is the core of our innovations. No matter what you choose, either a CORTEX metabolic standalone device for performance testing or a complete system for cardiopulmonary differential diagnostics, CORTEX measurement technologies in combination with our practical and high-performance software solutions are convincing.



## SOFTWARE +

### MetaSoft®

- STATERA®
- CORTEX Interpretation Assistant
- CORTEX Cardiac Output
- CORTEX Spirometry
- CORTEX Energy Metabolism
- CORTEX Training Guidance
- CORTEX Exercise Scheduler
- Software for ECG Control
- Software for Workload Device Control
- Spiro 2000
- GDT Interface
- HL7 Interface

## MINIMAL REQUIREMENTS

### COMPUTER / NOTEBOOK

- Processor min. 2000 MHz
- Hard Disc Drive > 40 GB
- RAM min. 512 MB
- Disc Drive CD-ROM

### OPERATING SYSTEM

- MS Windows® XP (SP2)
- MS Windows® Vista (32 Bit)
- MS Windows® 7 (32, 64 Bit)
- MS Windows® Server 2003/2008

### MONITOR

- 17" TFT
- min. 1024 x 768 Pixel

### INTERFACES

- LAN
- min. 2 x USB
- serial (COM)

### OPTIONAL

- Sound Card
- CD / DVD Writer

## SUPPORTED DEVICES

### CORTEX

- MetaLyzer II
- MetaLyzer II R2
- MetaLyzer 3B
- MetaLyzer 3B R2

### BICYCLE ERGOMETERS

- custo ec 3000
- Cyclus
- Daum ergo-bike
- Elmed EGT
- ERGO FIT
- Ergoline Ergometrics / Ergo select
- ERM-100
- Fukuda
- Kettler
- Lode Corival / Examiner / Excalibur
- MIHA ProCycle
- Monark
- Proxomed
- Seca
- Technogym

### ARM ERGOMETER

- Lode Angio

### TREADMILL

- Cardioline
- Daum
- Fukuda
- HP Cosmos
- Jaeger
- JNB
- Lode Valiant
- Marquette
- Quinton
- TaeHa
- Trackmaster TM
- Woodway

### ECG-SYSTEMS

- Cardio Direct / Collect
- custo card / Metacontrol 3000
- Fukuda stress
- GE CASE (as of 3.14)
- ERGOCID
- CardioLab+
- Micromed Elite
- GE Healthcare (as of 6.5)
- ECG pro

### BLOOD PRESSURE DEVICES

- SunTech
- CBP 2000

### OXYGEN SATURATION DEVICES

- Nonin

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