

# METAMAX<sup>®</sup> 3B

## unattached mobile

A mobile and robust cardiopulmonary exercise testing device for outdoor and indoor application. Perform comprehensive analysis of cardiopulmonary functions under realistic workload conditions. This modular system ensures high flexibility. The "International Forum Design" awarded the METAMAX<sup>®</sup> the diserable iF Product Design Award.



### SCOPE OF DELIVERY

#### METAMAX<sup>®</sup> 3B

- METAMAX<sup>®</sup> 3B Base Device
- Triple V Volume Sensor incl. Wind Protector
- Gas Sample Line, mobile
- Mask
- Mask Harness
- MaxSport Carrying Set
- MetaSoft<sup>®</sup> Software; Dongle
- Telemetry Receiver
- Earphone for Audio Output
- Batteries / Charging Unit
- Carrying Case
- Manuals on CD

### ACCESSORIES & OPTIONS

- GPS Kit
- 3 Channel / 12 Channel ECG
- Tango<sup>®</sup> +
- Ipod<sup>®</sup> / Xpod<sup>®</sup>, External SpO2 Module
- Personal-Use Mask incl. Mask Harness
- Calibration Set
- Workload Device (Treadmill; Bicycle)
- Software Options
- CORTEX mobile (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)

### TELEMETRY

Type	Bidirectional 19200 Baud
Frequency	433 - 424 MHz
Range	1000 m
Interface	RS232

### PHYSICAL SPECIFICATIONS

Dimensions (LxWxH)	2 x (120 x 110 x 45 mm)
Weight	570 g (without Battery)

### ELECTRICAL SPECIFICATIONS

PC Interface	Serial (RS232);
Power Supply	Battery
	Internal 7.2 V nominal;
	2200 mA

### OPERATING CONDITIONS

Warm-Up Time	approx. 30 min
Temperature	- 10° to max. +40° 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

META MAX 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

- METAMAX II
- METAMAX 3X
- METAMAX 3B

### 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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