

METAMAX[®] 3B

Unlimited mobile performance testing.

The METAMAX[®] 3B is a stable out- and indoor device for mobile use. The system allows a complete Cardiopulmonary Exercise Testing even outside of a laboratory. Battery operation and bidirectional transmission ensure a particularly wide scope of usage. This means: put it on, switch it on and measure. Various hardware additions and matching software options make it a very flexible tool.



SCOPE OF DELIVERY

- METAMAX[®] 3B Base Unit
- RemoteControl
- Triple V Volume Transducer
- Face Mask Set dark blue (S, M) incl. Adapter and Headgear
- Polar[®] HR Transmitter Belt (H7)
- Long Range Bluetooth[®] Receiver
- 2 Internal Batteries with Charger
- Earphone
- MaxSport Jacket Set, incl. 2 Jackets (S, L)
- Gas Sample Line, mobile
- Digital Barometer Airflow
- MetaSoft[®] Studio Software
- Operator Manual
- Carrying Case with Inlay

OPTIONS

- GPS Kit for METAMAX[®]
- 1-, 3-Channel ECG
- 12-Channel ECG (for stationary operation)
- External SpO2 Module Ipod[®] / Xpod[®]
- Personal-Use Mask incl. Mask Harness
- Calibration Set
- Workload Devices (Treadmill; Bicycle)
- Software Options
- System cart CORTEX mobile PLUS
- Notebook / PC
- Color Printer

MEASURING METHOD / SENSORS

Measuring Method	Breath-by-Breath
Flow / Volume	Type Turbine digital
	Range 0 - 20 L/s
	Resolution 7 mL
	Accuracy ± 2 %
O ₂	Type Electro-Chemical Cell
	Range 0 - 21 Vol. %
	T ₉₀ Time <100 ms
	Accuracy ± 0.1 Vol. %
CO ₂	Type ND Infrared
	Range 0 - 13 % Vol.
	T ₉₀ Time <100 ms
	Accuracy ± 0.1 Vol. %
Heart Rate	Polar HR [®] Set (H7)
	3-Channel ECG (optional)

TELEMETRY

Type	Bluetooth [®] 2.1 EDR
Frequency	2,4 GHz
Range	1,000 m
Interface	USB 2.0

PHYSICAL SPECIFICATIONS

Dimensions (LxWxH)	2x (120x110x45 mm)
Weight	580 g (without Battery)

ELECTRICAL SPECIFICATIONS

PC Interface	Bluetooth [®] 2.1
Power Supply	Battery Internal 7.2 V nominal, 2200 mAh

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)

QUALITY MANAGEMENT

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

PRODUCT SAFETY

- Directive 93/42/EEC
- DIN EN 60601-1: 2007
- DIN EN 60601-1-2: 2007
- EN ISO 10993-1: 2009 ff.
- DIN EN 980: 2008
- DIN EN 1041: 2008
- DIN EN 62304: 2006 (+AC: 2008) (ger)

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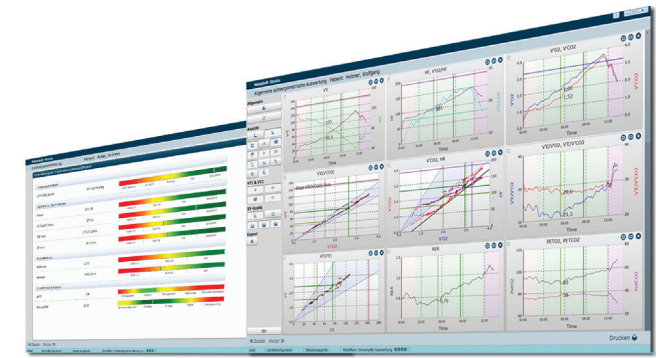


MetaSoft® Studio

One Software for all Processes

All CORTEX systems are based on the application software MetaSoft® Studio. It controls and monitors all processes of Cardiopulmonary Exercise Testing and all peripheral systems, e.g. heart rate and blood pressure measuring tools and ergometers.

A clearly structured user guidance is provided based on intuitive workflows. MetaSoft® Studio can be operated via keyboard, mouse or touch screen.



SOFTWARE OPTIONS

- CORTEX MSS Training Guidance
- CORTEX MSS Exercise Scheduler
- Activation License - mc 3000 Interface
- CORTEX MSS 12-Channel ECG Interface
- CORTEX MSS Spirometry
- CORTEX MSS Metabolism for CPET
- CORTEX MSS Basal Resting Metabolic Rate
- CORTEX MSS Interpretation Assistant by Wassermann
- CORTEX MSS Pre-operative Risk Assessment
- CORTEX MSS Risk Assessment for heart failure patients
- CORTEX MSS HL7 Interface
- CORTEX MSS Import Function AIRCHECK

MINIMAL REQUIREMENTS

COMPUTER / NOTEBOOK

- Processor Intel Core 2 Duo / 2 GHz, AMD Athlon 64 X2 / 2 GHz or higher
- Graphics DX9 compatible, with 128 MB RAM or higher
- Screen 1280*1024 (4:3), 1280*800 (16:9)
- Hard disk > 20 GB
- Drive DVD-ROM

WINDOWS OPERATING SYSTEMS

- MS Windows® XP (SP3)
- MS Windows® Vista (32, 64 Bit)
- MS Windows® 7 (32, 64 Bit)
- MS Windows® Server 2008 (32, 64 Bit)

INTERFACES

- LAN
- min. 2x USB
- seriell 2x COM

OPTIONAL

- Sound Card
- CD / DVD Writer

SUPPORTED DEVICES

BICYCLES ERGOMETERS

- custo med ec3000, ec500
- Daum ergo-bike Cardiopro, Medical, Premium
- Elmed EGT
- ERGO-FIT CYCLE, EF
- Ergoline Ergometrics / ErgoSelect
- ERM-100
- Fukuda BE-350, -360
- GE eBike
- h/p/cosmos compatibele
- Kettler CX1
- Lode Corival / Examiner / Excalibur/ Rehcor
- MIHA ProCycle
- Monark 829, 839
- Proxomed Kardiobike
- RBM Cyclus
- Seca CT 100
- Technogym BikeMed, KRace
- Other Devices

ARM ERGOMETERS

- Lode Anglo

TREADMILLS

- Cardioline CardioTread
- Daum ergo_run
- Ergo-fit Cadio Trac
- Fukuda MAT
- Gait Trainer 2
- h/p/cosmos Compatible, Mercury, Pulsar, Quasar Saturn, Stellar, Stratos, Venus
- Jaeger CosCom
- JNB JT4000M
- Lode Valiant
- Marquette T2000
- Micromed Centurion
- Quinton ST
- TaeHa TH
- Technogym Excite Run, RunRace
- Trackmaster TM, 425, TMX
- VR3000
- Woodway PPS 55 Med, USA, XELG
- Other Devices

ECG SYSTEMS

- AmedTec ECG Pro
- custo med custo diagnostics, custo card / meta control 3000
- Fukuda stress
- GE CardioSoft, CASE
- Micromed Elite
- Mortara/Xscribe M12A-USB
- Spacelabs CardioNavigator, Sentinel

BLOOD MEASURING SYSTEMS

- SunTechTango, Tango+

OXYGEN SATIETY MEASURING SYSTEMS

- Nonin 4100 Bluetooth Oxymeter, Xpod/Ipod