

METALYZER® 3B

handy and precise

The METALYZER® 3B is a handy, portable Cardiopulmonary Exercise Testing system for doctors' practises, hospitals, institutes and training facilities. The product allows the medical analysis of the lungs, heart and metabolism at rest and under stress. It is possible to connect it to an ECG and it has various hardware and software options, making the METALYZER® 3B particularly variable. It ranges from a performance diagnostics station to a complete cardiopulmonary system.



SCOPE OF DELIVERY

- METALYZER® 3B Base Unit
- Triple V Volume Transducer
- Face Mask Set dark blue (S, M), incl. Adapter and Headgear
- Sample Line with Nafion® Tube
- PC-Connection Cable, serial
- Country-specific Power Cord
- MetaSoft® Studio Software incl. Automatic Exercise Device Control, Dongle
- Manual
- Carrying Case

ACCESSORIES & OPTIONS

- 12-Channel ECG
- 3-Channel ECG
- Blood Pressure Module Tango+
- External SpO2 Module Ipod® / Xpod®
- Personal-Use Mask incl. Mask Harness
- Calibration Kits
- Workload Devices (Treadmill; Bicycle)
- Software Options
- System cart CORTEX mobile PLUS
- 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 ₂	Type Electro-Chemical Cell
	Range 0 - 100 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 (optional)
	3-Channel ECG (optional)
	12-Channel ECG (optional)

PHYSICAL SPECIFICATIONS

Dimensions (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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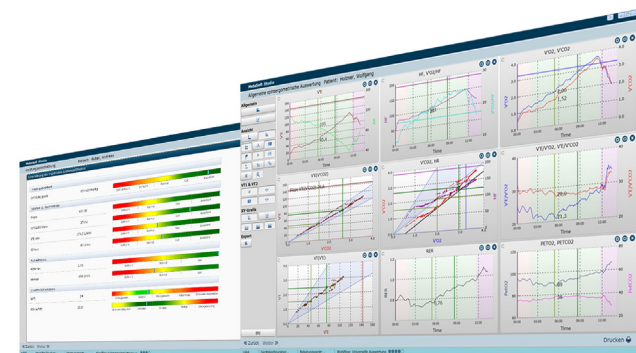
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MetaSoft® Studio

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

SYSTEM 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
- RAM ≥ 2 GB
- Drive DVD-ROM

WINDOWS OPERATING SYSTEMS

- MS Windows® 7 (32, 64 Bit)
- MS Windows® 8 (32, 64 Bit)
- MS Windows® Server 2003 (32, 64 Bit)
- MS Windows® Server 2008 (32, 64 Bit)
- MS Windows® Server 2012 (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

