



SOFTWARE

ONE SOFTWARE FOR ALL PROCESSES

The application software MetaSoft® Studio is the basis of all CORTEX systems and of prime importance for data acquisition and data analysis. The software manages and monitors all spiroergometric processes and controls the peripheral systems, such as the ergometers and the heart rate and blood pressure measuring devices.



Intuitive workflows are used to lead the users through the programs. The user goes through all spiroergometric phases – step by step. Based on a modular system, MetaSoft® Studio allows you to combine individual test and analytic processes. Each user can thus define typical test series, making them to his or her standard series.

Graphical displays facilitate the evaluation of test results. The user has different display formats to choose from or can configure the display of the test results according to his or her preferences. Reporting functions allow the user to display test results in a clearly structured form. A mouse, keyboard or touch screen is used to run the software.

SOFTWARE

ADDITIONAL SOFTWARE FEATURES

Comprehensive software features are available for MetaSoft® Studio. The software offers a broad range of specialized application programs. The features include: modules for meta control 3000, connection to third-party ECG, the Performance Assessment and the Exercise Scheduler, Energy metabolism under stress tests, measuring of basic and resting metabolic rates, Interpretation Assistant by Wasserman, Pre-operative Risk Assessment, Spirometry and HL7 Interface. On the following pages some of these software features are explained in more detail.

PERFORMANCE ASSESSMENT

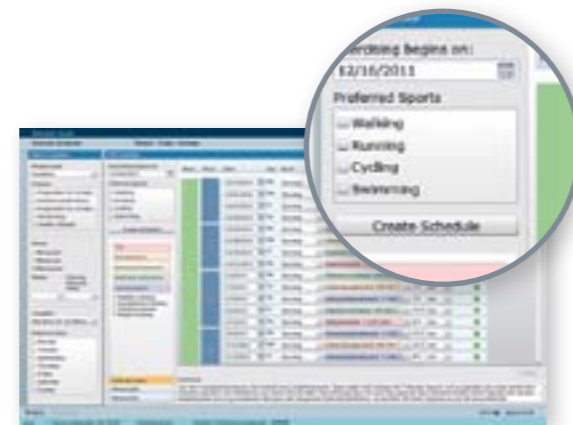
The optional CORTEX MSS Performance Assessment determines optimal training zones based on respiratory thresholds and a person's maximum oxygen uptake. It defines individualized heart rate training zones for different stress phases and training goals. Progress made during training sessions is precisely documented, thus motivating the user over the long term.



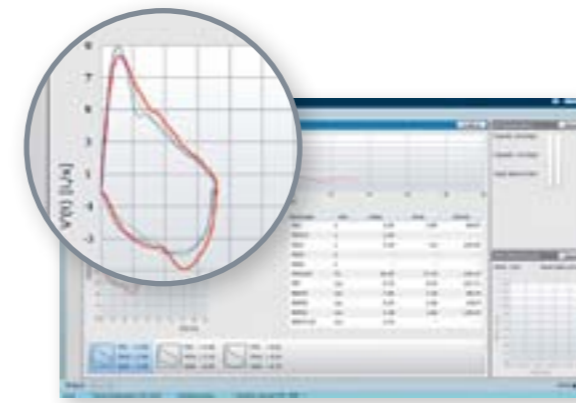
EXERCISE SCHEDULER

The CORTEX MSS Exercise Scheduler transfers the results determined by the Performance Assessment and displays them in well-structured overviews. Based on the performance status determined before and on defined framework conditions (such as training goals, stress increase, frequency and type of sport), training plans are set up in the form of micro, meso and macro-cycles. The user can create own templates and then further customize them in the Exercise Scheduler or use pre-installed templates for a quick start.

Instead of "just" presenting the results to the users, concrete implementation and handling instructions are offered to the test persons.



Video product demonstration MetaSoft® Studio:
cortex-medical.de/MetaSoft-Studio-en.htm



SPIROMETRY AT REST

All CORTEX products for spiroergometry can be used as spirometers. The software feature CORTEX MSS Spirometry is part of the basic program MetaSoft® Studio. It offers vital capacity (VC), forced vital capacity (FVC) and maximum ventilator volume (MVV) tests as well as numerous other measuring, calculation and comparing options.

ENERGY METABOLISM

Basic and Resting Metabolic Rate

The resting metabolic rate informs you about the proband's individual energy balance. To determine the rate, the energy metabolism at rest is measured and compared with anticipated values. The parameter is used as reliable basis for controlled caloric intake, for example in the context of individual nutrition plans.

Energy Metabolism under Stress

A well-functioning energy metabolism is the prerequisite for any type of performance. A person's metabolism can easily be improved by well-balanced training units. This requires an individual measurement of the energy balance and of fat and carbohydrate burning at increasing stress levels. Using the resulting data, MetaSoft® Studio determines the optimal heart rate zones for improving the relevant person's metabolic efficiency.



BICYCLE AND ARM ERGOMETERS <ul style="list-style-type: none"> over 40 devices of leading manufacturers, e.g. Ergoline, Cycclus2, Lode individual connection to other devices on request 	META CONTROL 3000 <ul style="list-style-type: none"> bidirectional connection to the cardiologic solution custo diagnostic produced by custo med 	OXYMETERS <ul style="list-style-type: none"> Nonin 4100 Bluetooth®
TREADMILLS <ul style="list-style-type: none"> over 40 devices of leading manufacturers, e.g. h/p/cosmos, Lode, Technogym individual connection to other devices on request 	12-CHANNEL ECG SYSTEMS <ul style="list-style-type: none"> AmedTec ECG Pro Dr. Schmidt Smartsoft Fukuda Stress ECG GE CardioSoft, CASE Medset PADSy Micromed Elite Mortara, XScribe M12A-USB Norav PC ECG Schiller SDS-104 Spacelabs Sentinel Welch Allyn Cardio Perfect 	KIS / PRACTICE SOFTWARE <ul style="list-style-type: none"> HL7 (ADT, ORM, ORU, MDM) GDT
		BLOOD PRESSURE MEASURING DEVICES <ul style="list-style-type: none"> SunTech Tango, Tango+, Tango M2
		MICROSOFT EXCEL EXPORT <ul style="list-style-type: none"> Excel (unlimited number of freely definable templates)