



THE NEW METAMAX[®] 3B

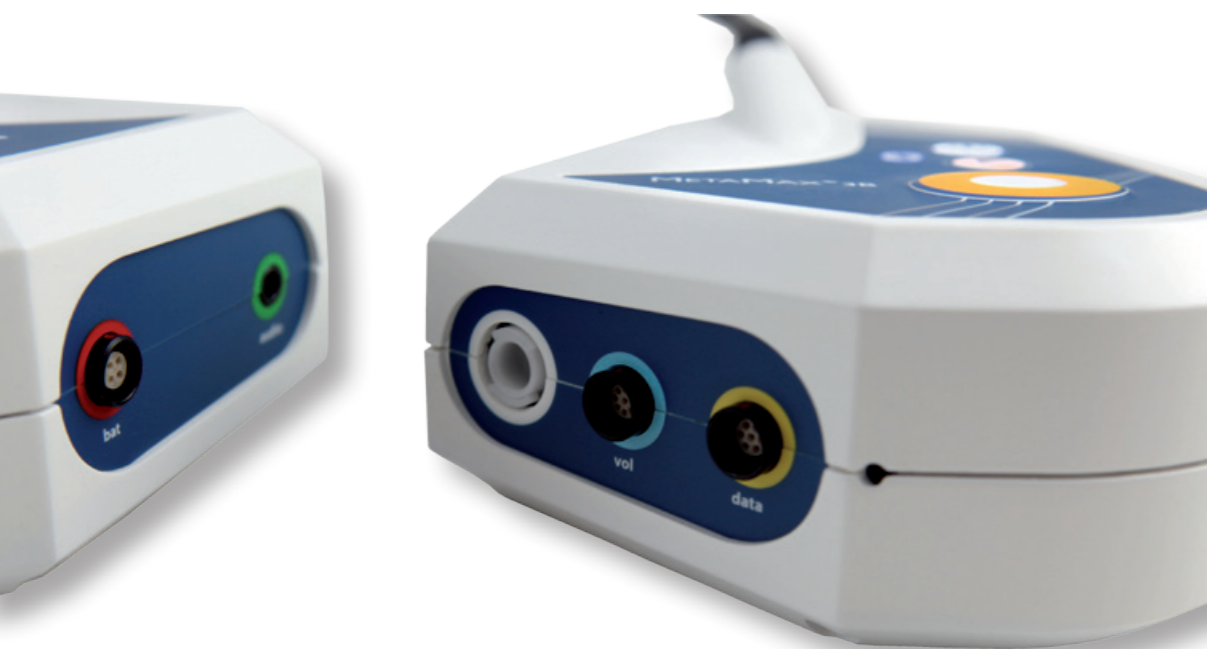
UNLIMITED MOBILE PERFORMANCE TESTING

ONE BREATH AHEAD®

How about intuitive technology? What if you could have sophisticated design with innovative functionality?

The new METAMAX® 3B is THE solution. The design speaks for itself: maximum mobility and functionality. See our technical edge in mobile performance diagnostics. Experience what "one breath ahead®" means for you.

Greater mobility, greater functionality: the new METAMAX® 3B! Equipped with the latest Bluetooth® transmission technology, extraordinary data security and long battery life, it represents a totally new dimension of professional performance diagnostics.



CORTEX METAMAX® 3B AT THE WORLD'S TOUGHEST BICYCLE RACE, THE RACE ACROSS AMERICA.

MORE MOBILE AHEAD

The new METAMAX® 3B is equipped with the two sophisticated *Bluetooth*® standards **Long Range Bluetooth®** and **Bluetooth® SMART**. This means: a larger range, higher transmission reliability and better compatibility to external *Bluetooth*® sources, such as heart rate belts.

Experience an impressive range.

The new *Bluetooth*® Long Range technology allows **much more stable data transmission with maximum ranges of more than 1,000 m**. Even in densely populated regions with high exposure to electromagnetic fields, the new technology strongly increases the robustness against such disturbing factors. Therefore reliable transmission of all test data between METAMAX® 3B and the Metasoft® Studio software is ensured over considerably longer distances.

Bidirectional communication.

The telemetric connection between METAMAX® 3B and the Metasoft® Studio software is **bidirectional**. The software cannot only receive data from METAMAX® 3B but also can operate the device remotely. Spontaneously, you may record flow-volume loops, store ECG sequences or give oral instructions to the test person during the field test. Thus you can communicate with and control the test person as easily as in the lab. Imagine carrying out field tests in the most optimum way.

Measuring 3-channel-ECG functions wirelessly.

With the **3-channel ECG belt custo guard** from custo med we offer you special user-friendly and secure 3-channel ECG measuring during stress tests with METAMAX® 3B. The ECG is not carried out conventionally via adhesive electrodes and cable but by **modern electrodes integrated into a chest strap**.

Handling is easy, wearing of the strap is comfortable and the procedure saves time. This makes ECG monitoring a compact process. ECG data is transmitted wirelessly, continuously and safely from belt to METAMAX® 3B and displayed graphically by the software – even during the test – together with the cardiopulmonary exercise testing data.

Heart rate measurement with Polar straps.

With the new *Bluetooth*® technology of the METAMAX® 3B, you can use the latest generation of **Polar heart rate straps with Bluetooth® SMART technology**. The much softer and better fitting chest straps allow a more stable transmission of the heart rate data.

CORTEX RemoteControl.

The new touch-screen RemoteControl from CORTEX allows you to see METAMAX® 3B's essential measuring data such as heart rate, oxygen uptake, carbon dioxide output, respiratory exchange ratio, breathing rate, tidal volume, minute volume, velocity and load during a field test on a **handy device**.

This way, you constantly receive valuable feedback from METAMAX® 3B without having to take along a PC or laptop. You also have the option to use the RemoteControl to carry out all calibrations required in the field test. Thus the METAMAX® 3B has become smarter and more mobile than ever before.



MMX	Perform CPET Test	RC 09:30
V'O2 3,22	V'CO2 3,1	V'E 80,1
AF 33	RER 0,95	HF 154

GPS in use.

The new METAMAX® 3B uses innovative GPS technology allowing the **test person's current position and altitude to be constantly determined**. Therefore, calculated velocity- and slope traces of the test person's activities ensure an objective stress related evaluation of the cardiopulmonary exercise testing data also for field tests.

Thanks to the patented bidirectional communication you have the option of constantly giving instructions to the test person and – for example – adjust the velocity.

One device – double benefit.

Using the **optional stationary kit**, the new METAMAX® 3B can be enhanced to a full stationary system. In this case, electricity is supplied via an external medical power unit. Thanks to an extended sample line, the METAMAX® 3B used in the lab must not be fixed on the body. This way you will have twice the benefit and it is 100% compatible to your test setup.

LIGHTER AHEAD

The new METAMAX® 3B is amazingly light. And this is a big advantage: In field tests the total weight of the test person barely increases and therefore the test results and their evaluation are mostly unaffected. Your test person has no restriction due to the device and can perform as usual.

In particular, the award-winning METAMAX® 3B design has ergonomic advantages. The same is – of course – true for its portability. We offer **chest and back carrying systems** in order to allow optimal comfort – regardless of which type of sport is being performed with the METAMAX® 3B. The result: real test conditions.

SAFE AND SOUND

More storage capacity.

The new METAMAX® 3B allows you to store more measuring data than ever before. The device has an **internal storage capacity of 256 MB**. You can here store up to 500 exercise tests. Even if in the field for longer and with independent operation of the METAMAX® 3B, high data security is ensured. There's zero risk of data loss.

Long battery life.

In addition to the internal battery, METAMAX® 3B can also be operated with an external battery. Thanks to the option to change the two batteries during operation, you have an **uninterrupted power supply**. Therefore you can carry out long test series without being obliged to turn off the device or to interrupt the test.

Stable connections / no mixing-up.

Due to new **push pull connectors** the connecting of cables is **easy**. Cables cannot be mixed up. The connectors have different colours and mechanical codes to ensure that they are **not interchanged by mistake**. The new design prevents damage of the contact pins and the special locking mechanism guarantees reliable cable connections.



THE NEW METAMAX[®] 3B UNLIMITED MOBILE PERFORMANCE TESTING

Respiratory gas analysis using breath-by-breath technique •

Maximum wireless ranges of more than 1,000 m •

Transmission reliability through •
Long Range *Bluetooth*[®]

Monitoring of heart function with pulse belt,
1- or 3-channel ECG belt •

GPS measuring for identification of •
velocity and altitude change

Comfortable controlling with
the RemoteControl •

Award-winning design offering light weight
and optimal ergonomics •

Controlling and monitoring of test subject activity by
voice response function •

Connecting external devices via
Bluetooth[®] SMART •

Patented bidirectional data transfer •

Improved battery life up to 6 hours •

Long calibration intervals •



• Quick change of batteries during operation mode

• Data safety due to large data logger

• Applicable for all types of sport through optional chest
or back wearing system

• Reliable cable connections due to push pull
connectors

• Connectors with different colours and
mechanical coding which prevents any
incorrect assembly

• Intuitive working with the software
application *MetaSoft*[®] Studio

• Stationary kit for use in laboratory

• Blood pressure measurement while
using device in laboratory

• Integration of pulse oximetry

• Easy setting of markers

Some functions are optional available.

TECHNICAL DATA.

The philosophy of CORTEX is to develop and continuously improve all hardware and software components.

To obtain the latest technical information, please contact your local dealer, go on:

<http://www.cortex-medical.de/products.htm>,
or scan the QR code shown.



Picture credits

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New goals in sight?



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