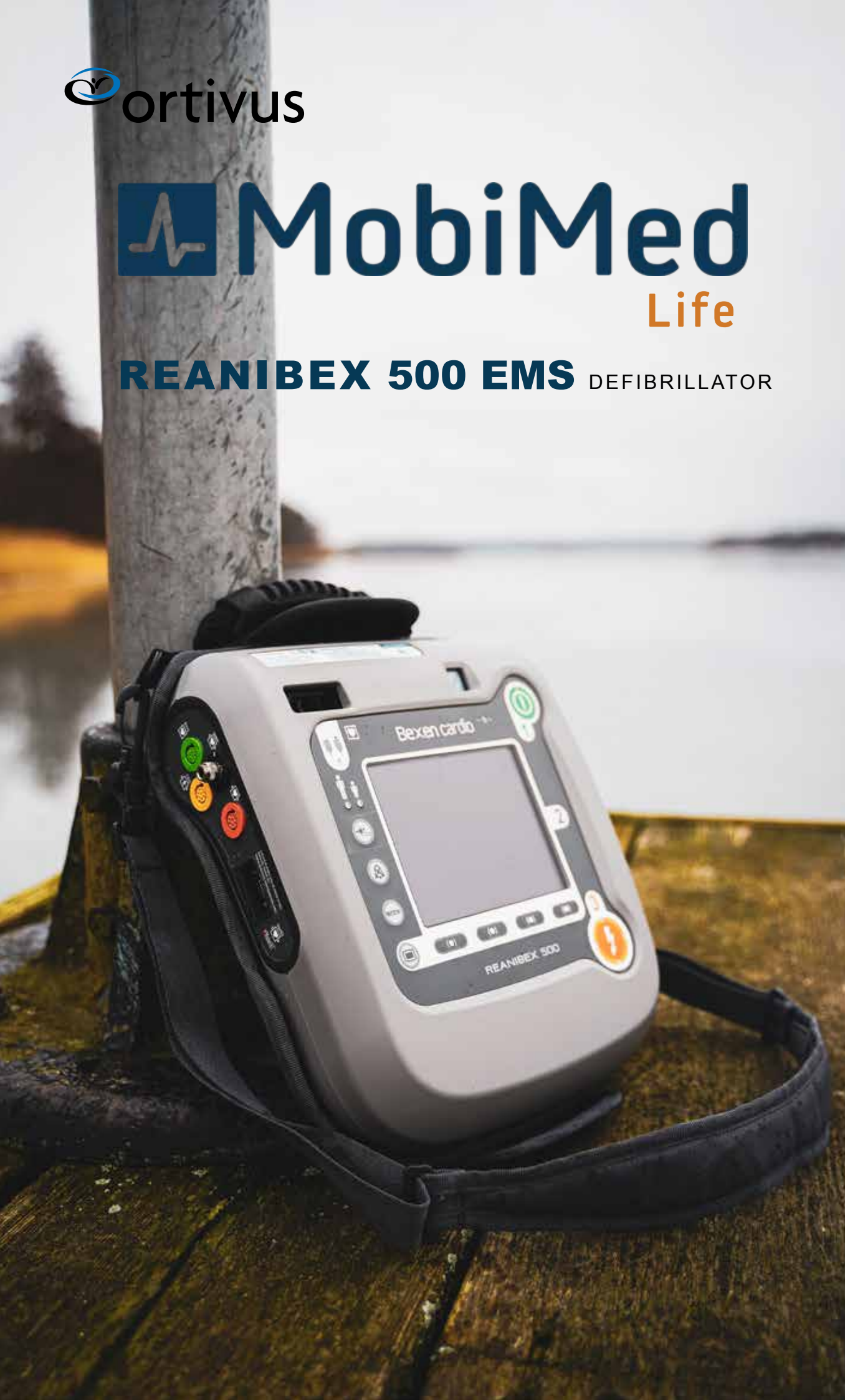


 ortivus

 **MobiMed**
Life

REANIBEX 500 EMS DEFIBRILLATOR



SAVING VITAL SECONDS

With over 30 years' experience in cardiology and in close collaboration with our users, Ortivus has developed MobiMed, the leading solution for patient monitoring and record keeping in prehospital care. With MobiMed, ambulance personnel can monitor and treat the patient out in the field, while patient data and vital parameters are shared in real time throughout the care chain. MobiMed Life – a part of MobiMed, is a stand-alone defibrillation solution that can be tailored to the organisation's needs.

Bexen Cardio has with its long experience developed Reanibex 500 EMS, a compact, user-friendly and intuitive defibrillator with clear voice instructions and guiding icons via display. CPR assistance is offered in real time with the help of a metronome, representation of compression speed and compression depth. Reanibex 500 EMS is created to withstand tough conditions with minimal maintenance.



Compact, robust and intuitive defibrillator



CPR assistance



360 Joule



MobiMed Connect, communication throughout the care chain

HEART SAFE SOLUTIONS

The Reanibex 500 EMS is specially designed for advanced monitoring and resuscitation functions, and has four operating modes: Monitor, Manual Defibrillator, Automated Defibrillator and Pacemaker.

Robust Design

Compact, robust design created to withstand tough conditions.

User-Friendly

Light weight

Flexible Power Options

Choose between a rechargeable (Li-ion) or non-rechargeable (Li SO₂) battery for your device.

360 Joules

Can escalate energy levels up to 360J.

Saving Vital Seconds

Minimizes CPR interruptions by allowing compressions to continue during energy charging.

CPR Assistance

Real-time CPR assistance using metronome, compression velocity rendering and compression depth.

ECG Capability

12-lead ECG function, available when needed.

Non-Invasive Pacemaker

Pacemaker pulses are delivered using only disposable multifunction electrodes, both adult and paediatric.

Shock Counter

Digitally records and displays delivered shocks for added insight.

Large Display

User-friendly and intuitive, with clear high-resolution 5,7-inch color display for patient monitoring. The screen can be set to high contrast mode.

Compatible Technology

Electrodes are fully compatible with all other MobiMed Life defibrillators and monitors.

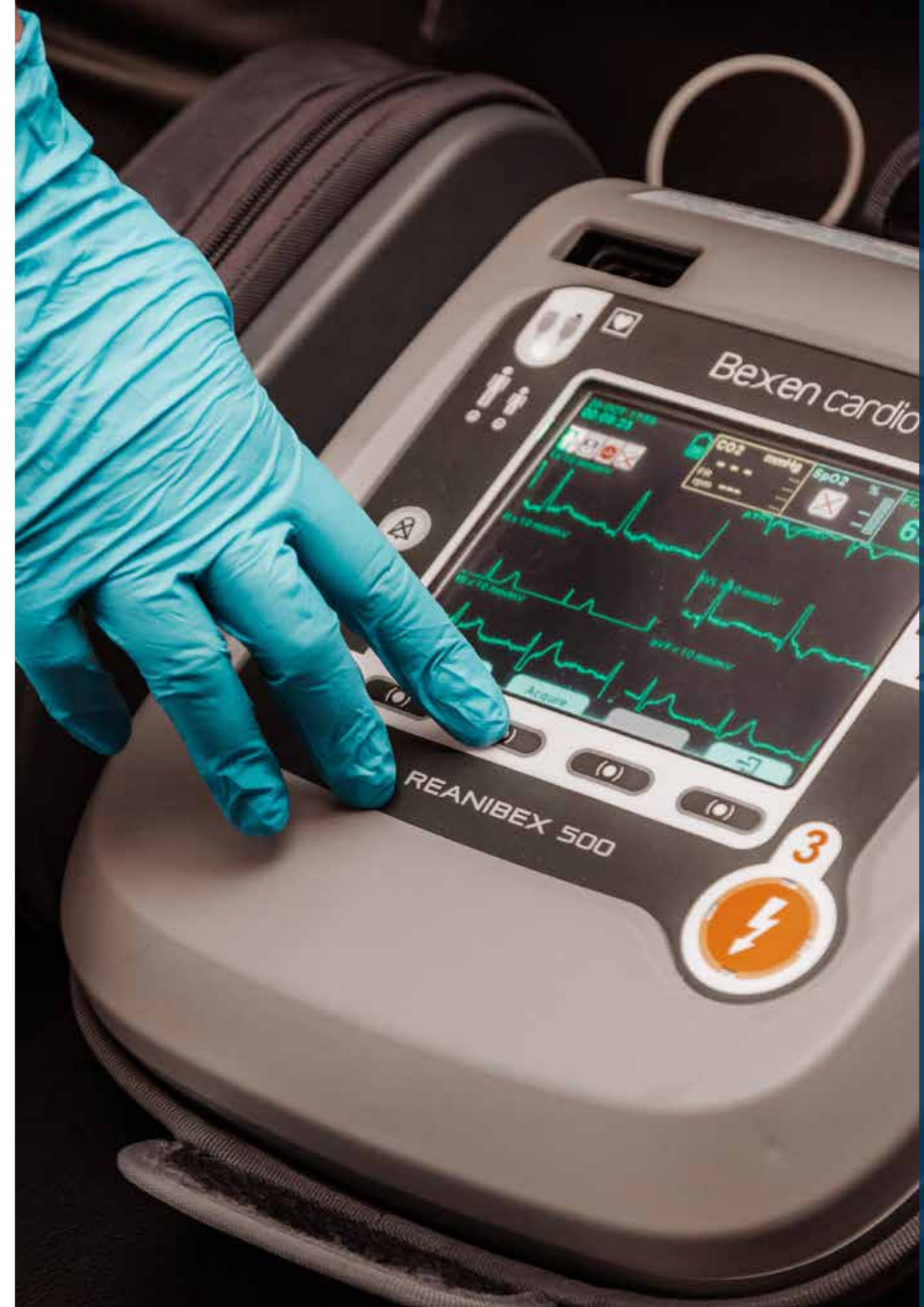
Customisable

Voice messages, CPRS settings, languages, defibrillation protocols, etc. can be customised via configuration tools.

Self-tests

The defibrillator performs regular and automatic self-tests to ensure functionality and facilitate maintenance.

“Its advanced features and light weight make it ideal for emergencies.”



OVERVIEW

1. Electrodes
2. Connector for NIBP, SunTech
3. Connector for ECG, 4+6 lead cable
4. Connector for ETCO₂, Masimo
5. CPR feedback, Push pad
6. Connector for SpO₂, Masimo
7. Status indicator
8. On/Off - Button
9. Defibrillation button
10. Communication (Reanibex Data Manager, DataLink, DataCloud)



Technical Specifications

REANIBEX 500 EMS DEFIBRILLATOR

General

Dimensions: 290mm(W) x 245mm(D) x 100mm(H)

Weight: 2.9 Kg with battery

Defibrillator

Waveform: Biphasic truncated exponential adjusted to the impedance of the patient.

Charging Time: Less than 5 seconds at 200 Joules with a new fully charged battery. Less than 7 seconds at 360 Joules with a new fully charged battery.

Indicators: On screen and audible messages, status indicators, battery level indicator and CPR help with feedback.

CPR Help: Metronome with compressions rate feedback in real time. With the push-pad device option: compressions rate and depth feedback in real time.

Available energy indicators: Charging tone, available energy tone, flashing discharge button, audible messages, indication of energy level on the screen.

Manual Mode

Output energy: *Adult patients:* 5 - 10 - 15 - 20 - 30 - 40 - 45 - 50 - 65 - 75 - 90 - 150 - 175 - 200 - 250 - 300 - 360 Joules. *Pediatric patients:* 5 - 10 - 15 - 20 - 30 - 40 - 45 - 50 - 65 - 75 - 90 Joules.

Synchronized cardioversion: Yes.

AED Mode

Defibrillable rhythms: Ventricular fibrillations and rapid ventricular tachycardia.

Output energy: From 150 to 360 Joules for *adult patients*. From 40 to 90 Joules for *pediatric patients*.

Specificity and sensitivity of the detection algorithm: Fulfills AHA requirements.

Resuscitation guidelines: Factory set Guidelines 2015 (ERC/AHA) and its review of 2017.

Monitor Mode

Inputs: 4+6 leadwires patient cable: I, II, III, aVR, aVL, aVR and V1 to V6. The ECG signal can be obtained through disposable multifunction pads and through the patient cable. 3+3 ECG waveforms can be displayed simultaneously.

Sensitivity: 0.5, 1, 2, 4 cm/mV and autogain.

Heart Rate: From 15 to 300 bpm (accuracy of $\pm 10\%$).

Common mode rejection: > 90 dBs (IEC 60601-2-27).

Frequency response: On screen: 0.67 - 40 Hz or 1 - 30 Hz. For 12 lead ECG acquisition: 0.05 - 150 Hz.

12 - Lead ECG and Interpretation

Input: With a 4+6 -leads patient cable the signals obtained are: I, II, III, aVR, aVL, aVF and from V1 to V6. These signals can be printed on the recorder in 3 x 4, 3x4+1R or 3x4 + 3R format.

Analysis algorithm: Glasgow University algorithm.

Screen

Size: 5,7 " (diagonal).

Type: TFT Colour.

Resolution: 480 x 640 pixels.

Sweep rate: 25 mm/sec for the ECG and SpO2 waveforms, 6.25 or 12.5 mm/sec for the EtCO2 waveform.

Display time: 4 seconds of ECG signal.

Communications (optional)

GSM: Built-in GSM module for data transfer

Bluetooth: Bluetooth Class 1 radio (range up to 200 meters). Uses 2.4 GHz ISM band.

Pacemaker (optional)

Waveform: Rectangular constant current.

Pulse width: 40 ms (precision of $\pm 10\%$).

Amplitude: From 0 to 200 mA (accuracy of $\pm 10\%$).

Frequency: De 30 a 180 bpm w(accuracy of $\pm 10\%$).

Operating modes: Fixed and on demand.

Refractory period: 340 ms from 30 to 80 bpm; 240 ms from 85 to 180 bpm.

Pulse Oximetry (optional)

Range: From 0 to 100 %

Accuracy: Without movement: <2%, With movement: <3%

Pulse frequency: From 25 to 240 bpm

Pulse frequency accuracy: Without movement: <3 bpm , with movement: <5 bpm

Capnography (optional)

Range: 0-15 vol%

Accuracy: $\pm (0.2 \text{ vol}\% + 2\% \text{ of reading})$.

Sampling flow rate: $50 \pm 10 \text{ ml/min}$

Respiration rate: 0 to $150 \pm 1 \text{ breaths/min}$

Warm-up time: <10 seconds (concentration reported and full accuracy).

Non-Invasive Blood Pressure (optional)

Range: Systolic pressure: 40 - 260 mmHg.

Diastolic pressure: 20 - 200 mmHg.

Accuracy: Fulfills the requirements of the ANSI/AAMI SP10:2002(R)2008, EN1060-4:2004 and ISO 81060-2:2009.

Transducer accuracy: $\pm 3 \text{ mmHg}$ between 0 mmHg to 300 mmHg for operating conditions between 0 and 50°C.

Initial pressure: 160 mmHg (by default for *adult patients*) 140 mmHg (by default for *pediatric patients*).

Pulse rate range: 30 to 220 bpm

Pulse rate accuracy: $\pm 2\%$ or 3 bpm, whichever is greater.

Measurement time: Average of 30 seconds, 130 seconds maximum.

Calibration: Annually.

Data Storage

Internal memory: Stores the continuous ECG signal with all the events and the external audio (the audio only in AED mode). Up to 4 GByte.

USB connection: For USB memory stick and for PC connection (if the equipment does not have GSM module).

Printer

Type: Thermal array - USB Printer.

Paper width: 80mm

Speed: 10, 25 and 50 mm/s (accuracy: $\pm 5\%$)

Printed information: Traces are printed with all events and measurements.

Reports: Operating reports trends, 12 - leads reports, configuration parameters, last tests results and equipment information.

Real-Time CPR Feedback Device (optional)

Push pad: Provides real time feedback of the rate and depth of the compressions during the CPR times.

Battery

Type: Li-Ion rechargeable battery and Li-SO2 non-rechargeable battery.

Battery indicators: Battery status indicator on screen, low battery indication and absence of battery indication on the status indicator

Capacity: Rechargeable battery: More than 200 discharges at 360 Joules with a new fully charged battery at 25 °C. Non-rechargeable battery: More than 270 discharges at 360 Joules at 25 °C

Environment

Operating temperature: From 0 °C to 40 °C with the Li-Ion battery pack installed. From 0 °C to 50 °C with the LiSO2 battery pack installed. From 0 °C to 50 °C with the SpO2 option, the ISA CO2 module option or the NIBP module option.

Storage temperature: From -20 °C to 60 °C (except batteries and disposable multifunction pads). ISA CO2 module: -40 °C to 70 °C. NIBP module: -20 °C to 65 °C

Humidity: 10 to 95 % non-condensing ISA CO2 module: < 95% RH at 30 °C.

Altitude: 0 to 5000 m

Shocks: EN 1789:2007 + A1:2010 ISO 80601-2-61:2011 - Shock and vibration for professional transport, ISO 80601-2-55:2011 - Shock and vibration for professional transport MIL STD 810 G category 16

Vibrations: EN 1789:2007 + A1:2010 ISO 80601-2-61:2011 - Shock and vibration for professional transport, ISO 80601-2-55:2011 - Shock and vibration for professional transport MIL STD 810 G category 16

Resistace to solids/liquids: IP55. Water test performed with cables connected to the equipment. ISA CO2 module: IPX4

EMC: Complies with IEC 60601-1-2:2015

MobiMed Life Products

Defibrillators/Monitors



Reanibex 100

REANIBEX 100 is a portable, user-friendly automated external defibrillator (AED) which empowers non-professionals to provide fast, effective first aid treatment to cardiac arrest victims, adults or children.



Reanibex 300 AED/MANUAL

The Reanibex 300 is an Automated External Defibrillator (AED) with a colour screen with 3D animated graphics and on-screen ECG signal display. The Reanibex 300 Manual is portable, lightweight, and compact with all the features needed for responding to cardiac arrest situations.



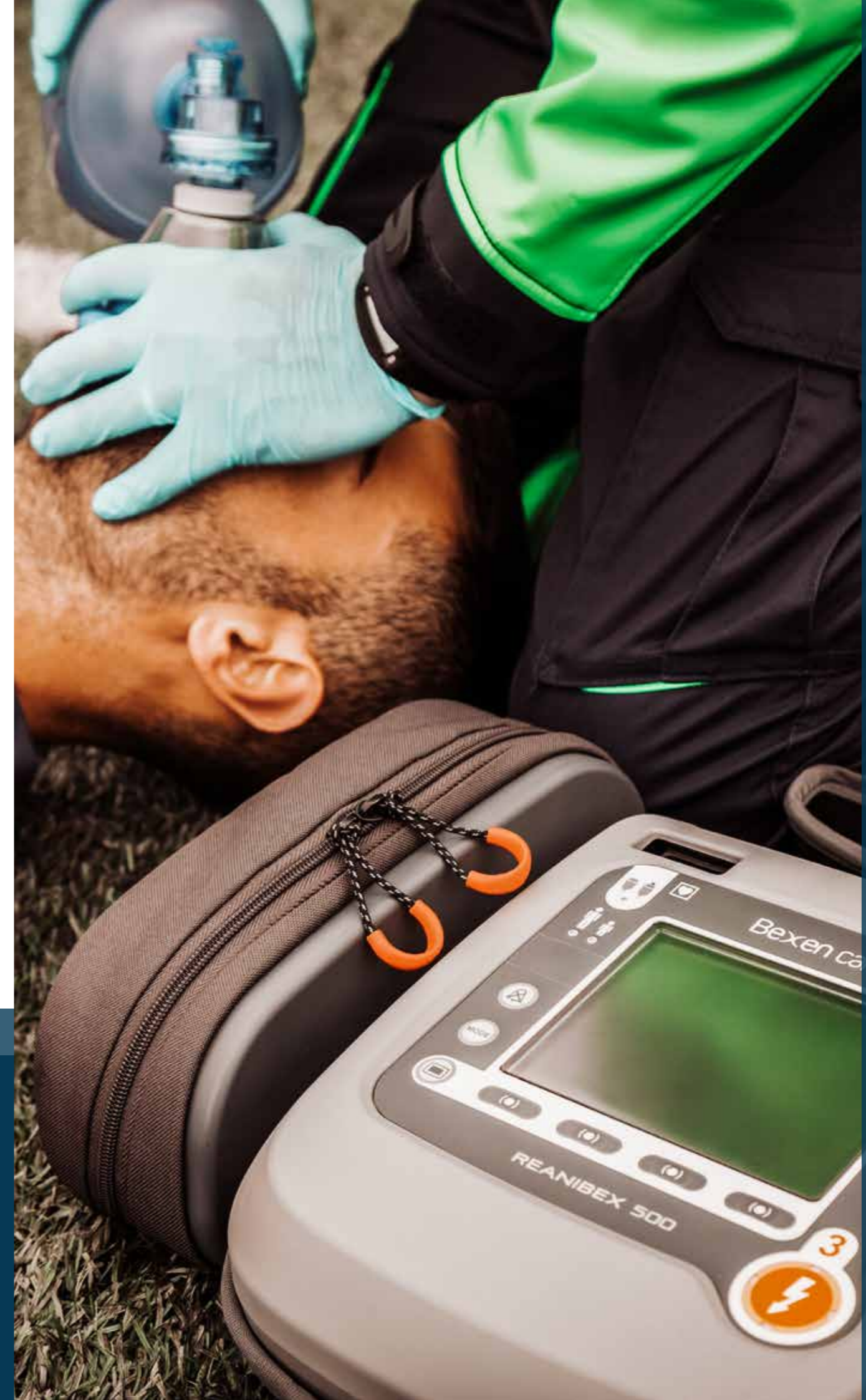
Reanibex 500 EMS

The Reanibex 500 EMS is specially designed for advanced monitoring and resuscitation functions, and has four operating modes: Monitor, Manual Defibrillator, Automated Defibrillator and Pacemaker.



Reanibex 800

The Reanibex 800 is the only Multi-Parameter Defibrillator Monitor with a plug & play design on the market designed for Advanced Life Support and has four operating modes: Monitor, Manual Defibrillator, AED and Pacemaker.



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