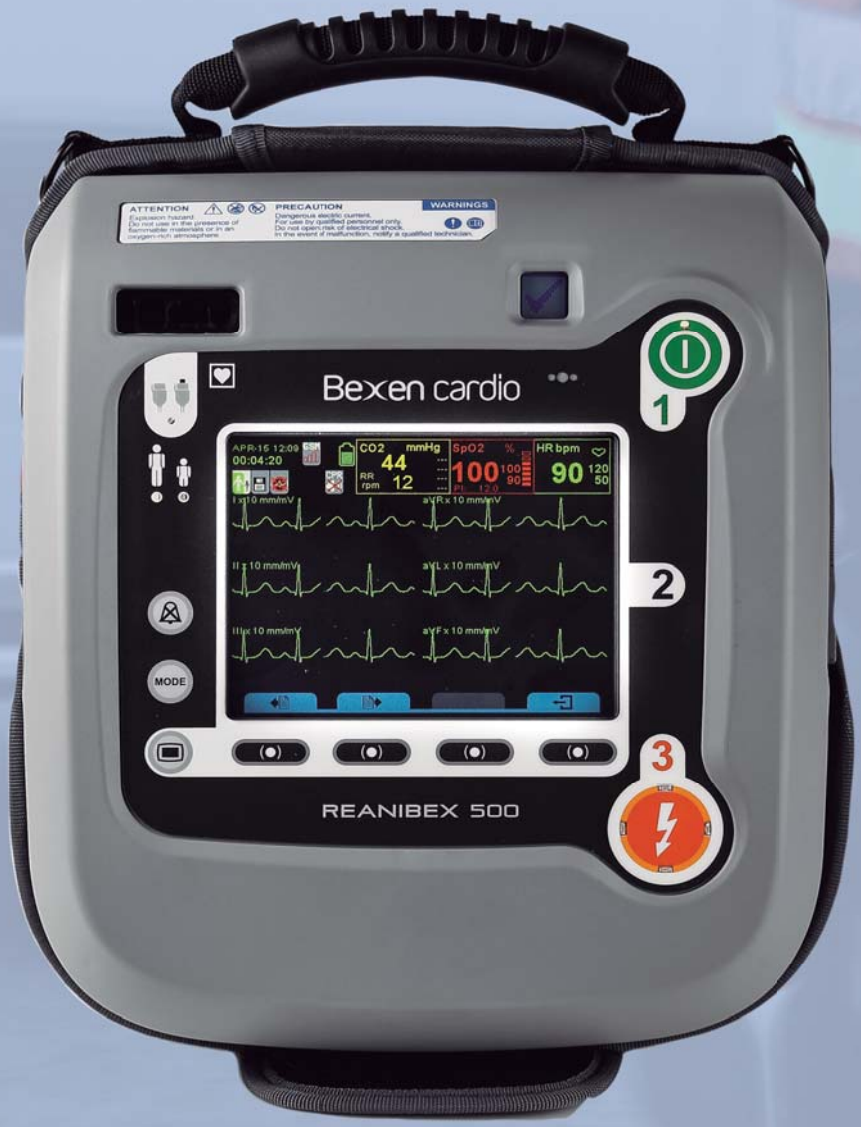
Bexen cardio

Ready for life

Reanibex 500 EMS

Compact multiparameter Monitor Defibrillator



Biphasic Manual and AED up to 360J

Universal AED algorithm for adult and paediatric patients

Non invasive pacing

SpO2

EtCO2

NIBP

12 leads acquisition

ECG Interpretation

80 mm printer

Up to six ECG waveforms on screen simultaneously

CPR guidance device in real time (Push Pad)

Data transmission (GSM, Bluetooth, USB...)

Reanibex 500 EMS.
Compact. Lightweight.

FEATURES

- Biphasic technology
- Universal AED algorithm for adult and paediatric patients
- Lightweight unit with multiparameter monitoring capabilities
- 4+6 leads patient cable
- Synchronized Cardioversion
- Non-invasive pacing (optional)
- 12 leads ECG data transmission (optional)
- 12 leads Interpretative Algorithm, University of Glasgow (optional)
- Pulse Oximetry with Masimo SET for adult and paediatric patients (optional)
- Non-Invasive Blood Pressure from SunTech (optional)
- Capnography from Masimo for intubated and not intubated patients (optional)
- "Push Pad" device, reports the quality of the frequency and depth of chest compressions in real time (optional)
- Configured according to ERC/ AHA guidelines 2015 and its review of 2017
- Automatic daily selftest ensures the device continual readiness
- Data transmission: GSM, Bluetooth and USB. Configured according to the user needs (optional)

ACCESSORIES

- Adult and paediatric disposable electrodes for defibrillation.
- Adult and paediatric ECG electrodes.
- Carrying case (1) .
- Ambulance bracket (EN 1789:2007 certified) (2).
- 4+6 leads patient cable.
- SpO2 probes from Masimo SET.
- EtCO2 sampling lines from Masimo.
- NIBP reusable cuffs
- 80 mm printer (3).
- "Push Pad" device.
- Rechargeable and non rechargeable battery.
- Rechargeable battery for autotraining mode (4).
- External battery charger.
- "REANIBEX Data Manager, Data Link, Data Cloud" software application to manage and organize all the data gathered.


(1)


(3)


(2)


(4)

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HUMANITY AT WORK | MONDRAGON

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Reanibex 500 EMS Technical Specifications

GENERAL

Dimensions	290 mm (W) x 245 mm (D) x 100 mm (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	Fulfils 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 ± 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

PACEMAKER (optional)

Waveform	Rectangular constant current
Pulse width	40 ms (precision of ± 10 %)
Amplitude	From 0 to 200 mA (accuracy of ± 10 %)
Frequency	De 30 a 180 bpm (accuracy of ± 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	± (0.2 vol% + 2 % of reading)
Sampling flow rate	50 ± 10 ml/min
Respiration rate	0 to 150 ± 1 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 Mean arterial pressure: 26 - 220 mmHg
Accuracy	Fulfils the requirements of the ANSI/AAMI SP10:2002(R)2008, EN1060-4:2004 and ISO 81060-2:2009.
Transducer accuracy	± 3 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	± 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	80 mm
Speed	10, 25 and 50 mm/s (accuracy: ±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

COMMUNICATIONS(optional)

GSM	Built-in GSM module for data transfer (optional).
Bluetooth	Bluetooth Class 1 radio (range up to 200 meters). Uses 2.4 GHz ISM band (optional).

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 ºC. More than 480 minutes of ECG monitoring. Non-rechargeable battery: More than 270 discharges at 360 Joules at 25 ºC. More than 540 minutes of ECG monitoring.

ENVIRONMENT

Operating Temperature	From 0 ºC to 40 ºC with the Li-Ion battery pack installed From 0 ºC to 50 ºC with the LiSO2 battery pack installed From 0 ºC to 50 ºC with the SpO2 option, the ISA CO2 module option or the NIBP module option
Storage temperature	From -20 ºC to 60 ºC (except batteries and disposable multifunction pads) ISA CO2 module: -40 ºC to 70 ºC NIBP module: -20 ºC to 65 ºC
Humidity	10 to 95 % non-condensing ISA CO2 module: < 95% RH at 30 ºC
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
Resistance 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