

# Bexen cardio

Ready for life

## Reanibex 700

### Monitor Defibrillator Manual



Monitor Defibrillator biphasic  
up to 200 J

Universal AED algorithm for  
adult and paediatric patients

Non invasive pacing

SpO2

NIBP

External adult and paediatric  
paddles

50mm printer

12 leads acquisition

Different power supply options:

- AC power supply
- Rechargeable battery
- DC power supply

# Reanibex 700. Monitor Defibrillator Manual.



## CARACTÉRISTIQUES

- AED (optional).
- Universal AED algorithm for adult and paediatric patients.
- Biphasic technology.
- 50mm printer.
- Operates from the mains (AC), from a vehicle battery (DC) (optional) and with its internal rechargeable battery.
- Control of the defibrillator and the printer from the paddles.
- Integrated paediatric paddles.
- Autotest when switched on and during operation.
- Simple and intuitive.
- Non invasive pacing (optional).
- Pulse Oximetry SpO2 from Masimo SET (optional).
- Non-Invasive Blood Pressure from Suntech Medical (optional).

## ACCESSOIRES

- Adult or paediatric disposable electrodes for defibrillation.
- ECG electrodes for adult or paediatric patients.
- Carrying case (1).
- Ambulance bracket (EN 1789:2007+A2:2014) (2).
- 3, 5 or 10 leads patient cable.
- SpO2 probes from Masimo SET.
- Non-Invasive Blood Pressure cuffs from SunTech Medical.
- Rechargeable battery (3).
- External battery charger.
- “REANIBEX Data Manager”, software application to manage and organize all the data gathered (4).
- Connection cable at 12V (DC).



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# Reanibex

## Serie 700

## Technical Specifications

### GENERAL

Dimensions  
Weight

310 mm (Width) x 249 mm (Depth) x 195 mm (High)  
Equipment with printer, multifunction disposable electrodes and without battery: 5.2 Kg  
External paddles: 0.95 Kg  
Battery: 0.8 Kg

### DEFIBRILLATOR

Waveform  
Energy delivery  
Charging Time

Biphasic truncated exponential adapted to patient's impedance  
By means of reusable external paddles for adults (pediatric paddles integrated), multifunction disposable electrodes.  
Less than 5 seconds at 200 Joules with a new fully charged battery

### MANUAL MODE

Selectable energy levels  
Charge control  
Synchronized cardioversion  
Available energy indicators

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 50, 70, 100, 125, 150 and 200 Joules (nominal over a 50 Ohms resistor)  
Key on the front panel or key on the reusable external paddles  
Energy delivery is carried out within the 60 milliseconds following the detection of the R wave  
Charging tone, available energy tone, flashing discharge button, indication of the selected energy on screen

### AED MODE

Output energy  
Operation protocol  
CPR help  
Available energy indicators  
Specificity and sensitivity of the detection algorithm  
Resuscitation guidelines

From 150 to 200 joules for adult patients  
From 40 to 90 joules for pediatric patients  
Guide the user through text and sound messages, and animated graphics  
Metronome with compressions rate feedback in real time  
Charging tone, available energy tone, flashing discharge button, message and icon on screen  
Fulfills AHA requirements  
Factory set Guidelines 2015 (ERC/AHA) and its review of 2017

### ECG MONITOR

Inputs  
Sensitivity  
Heart Rate  
Common mode rejection  
Frequency response

3 leadwires patient cable: I, II, or III  
5 leadwires patient cable: I, II, III, aVL, aVF, aVR and V  
10 leadwires patient cable: I, II, III, aVL, aVF, aVR and V1 to V6  
ECG signal can be obtained through patient cable, reusable paddles or multifunction disposable electrodes  
3 channels can be displayed and  
3+3 ECG waveforms can be displayed simultaneously  
0.5, 1, 2 and 4 cm/mV  
From 30 to 300 ppm for adults and 30 to 350 ppm for paediatrics with  $\pm 10\%$  of accuracy  
100 dBs at 50 / 60 Hz (IEC 60601-2-27)  
Mains filter: 50 Hz or 60 Hz  
On recorder: 0.67 – 40 Hz or 0.05 – 150 Hz (diagnostic)

## SCREEN

Size	115 x 80 mm (5,7 ")
Type	TFT colour
Resolution	480 x 640 pixels
Sweep rate	25 mm/sec for ECG and SpO2 waveforms
Waveform display time	4,5 seconds for ECG signal (9 seconds in cascade mode)

## RECORDER

Type	50 mm (thermal)
Speed	10, 25 and 50 mm/s with an accuracy of $\pm 5\%$
Operation modes	Manual: Waveforms are printed along with their events and measurements (printer start/stop key on the front panel). Automatic: Prints automatically with a marker, shock or an alarm. Delayed: Prints with an 8 seconds delay with respect to the information displayed on screen.

## PACEMAKER

(optional)

Waveform	Rectangular constant current
Pulse width	40 ms (accuracy of $\pm 10\%$ )
Amplitude	From 0 to 200 mA (accuracy of $\pm 10\%$ )
Frequency	From 30 to 180 ppm (accuracy of $\pm 10\%$ )
Operating modes	Fixed and on demand
Refractory period	340 ms from 30 to 80 ppm 240 ms from 85 to 180 ppm

## PULSE OXIMETRY

(optional)

Range	From 0 to 100 %
Accuracy	Without movement: $\pm 2$ digits. With movement: $\pm 3$ digits
Pulse frequency	From 25 to 240 ppm
Pulse frequency accuracy	Without movement: $\pm 3$ ppm. With movement: $\pm 5$ ppm

## 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 SP 10:2002@2008, EN1060-4:2004 and ISO 81060-2:2009
Transducer accuracy	$\pm 3$ mmHg between 0 mmHg to 300 mmHg for operating conditions between 0 and 501 C
Initial pressure	160 mmHg (by default for adults 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 operation report and the trends of all the monitored parameters up to a maximum of 24 hours from the switching on.
Compact Flash memory card	Stores the continuous ECG signal along with all the events and the audio (optional and only in AED mode).
	Stores the last 100 events with their associated ECG signal
Data review	PC application (Reanibex Data Manager) for downloading, reproducing, handling, storing and reviewing recorded episodes (optional)

## BATTERY

Type	Rechargeable NiMH, 3 A/h, 12 V
Capacity	More than 130 shocks at 200 Joules (new fully charged battery at 25 °C) More than 140 minutes of monitoring
Charging time	Approximately 3 hours
Battery indicators	Battery capacity and status indicator on screen

## ENVIRONMENT

Operating Temperature	From 0 to 50 °C
Storage temperature	From -20 to 60 °C
Humidity	10 to 95 % non-condensing
Resistance to solids/liquids	IP33
Shocks	EN 1789:2007
Vibrations	EN 1789:2007
AC Supply	Input: 100 – 240 VAC, 50/60 Hz, 2.5 Amperes
DC Supply	10 – 16 VDC, 10 Amperes