

# Advanced Clinical Defibrillator

## DefiMax plus



A professional clinical defibrillator with advanced patient monitoring feature.

The defibrillator enables monitoring of ECG from 3 and 5 leads ECG cable, arterial pressure measured by non-invasive (NIBP) and invasive (IBP) methods, saturation ( $\text{SpO}_2$ ), temperature and end tidal carbon dioxide ( $\text{CO}_2$ ).

The advanced technology used in the defibrillator delivers an energy impulse (from 1 to 300J) which is precisely adjusted to patient's physical parameters and minimizes an injury of the heart muscle.

The defibrillator can work in a manual and automatic mode (AED). It can be used for performing cardioversion and pacer in asynchronous or synchronous mode.



### European quality, worldwide recognition

Over 20 years of experience, thousands of patient monitors and defibrillators sold in Europe, Asia, Australia, Africa and South America.

Emtel worldwide

# Technical parameters DefiMax Plus

€ 2274

## GENERAL PARAMETERS

Power supply	100 - 240 VAC 50/60 Hz
Internal battery	12 VDC
Safety class	I, CF, BF
Safety requirements	MDD: 93/42/EEC, 2007/47/EC; EN 60601-1, EN 60601-1-2, EN 60601-2-4
Weight	6.0 kg without paddles
Dimensions	298 x 312 x 260 mm

## MODES

Manual mode
Cardioversion mode
AED mode
Monitoring mode
Pacer mode
Service mode

## DISPLAY

Display type	6.5" LCD TFT colour
Resolution	640 x 480 pixels
Digital values and waves displayed	

## MONITOR MODULE

Number of channels	4
Sweep speed	3.125 to 50 mm/s
Trends	6 h
Archive	6 h
Events archive	min. 500
Alarms for all parameters	

## DEFIBRILLATOR MODULE

Manual and cardioversion mode	
Electrodes type	disposable and reusable adult and pediatric
Impulse type	biphasic with patient's impedance compensation
Energy range	1 to 300 J
Charging time	< 10 s for 300 J
AED mode	
Electrodes type	disposable
Impulse type	biphasic with patient's impedance compensation
Advanced help system during defibrillation	

## ECG MODULE

Leads	I, II, III, aVR, aVL, aVF, Vn
CMRR ratio	> 100 dB
Frequency range:	0.05 to 100 Hz
Diagnostic	0.5 to 40 Hz
Monitoring	1 to 25 Hz
Paddles	2.5 - 20 mm/mV
Sensitivity	15-300 bpm
HR range	acoustic and optical
QRS signaling	
Input protected against defibrillator and high frequency disturbance	

## RESPIRATION MODULE

Respiration rate	0 - 150 rpm
Measurement method	rheographic (impedance)
Apnea recognition time	5 - 60 s
Possibility of lead selection	
Respiration waveform displayed	

## PACER MODULE (option)

Impulse shape	monophasic
Mode	on demand and fixed-rate
Output current	0 to 200 mA
Pacing rate	30 to 180 1/min
Impulse width	5 to 40 ms

## SpO<sub>2</sub> MODULE Nellcor OxiMax™ (option)

Measurement range	0 - 100%
Accuracy 70% - 100%	2 digits
Accuracy 60% - 80%	3 digits
Pulse rate	20 - 300 bpm
Acoustic signaling of saturation	
Motion and low perfusion tolerant	
Plethysmographic wave displayed	

## NIBP MODULE (option)

Measurement range of transducer	10 - 300 mm Hg
Measurement mode	manual, auto or STAT
Auto-mode repetition time	1 - 480 min

## TEMPERATURE MODULE (option)

Measurement range	0 - 50.0 °C
Resolution	0.1°C

## CO<sub>2</sub> MODULE (option)

Measurement range	0 - 150 mm Hg
Respiration rate	0 - 150 rpm
Apnea recognition time	5 - 60 s
CO2 waveform displayed	

## IBP MODULE (option)

Measurement range	-50 to +320 mm Hg
Accuracy	± 1 mm Hg
Input sensitivity	5 µV/V/mm Hg
Pressure waveform displayed	

## THERMAL RECORDER

Paper width	57 mm
Mode	auto and manual
Number of channels	2
Sweep speed	25 and 50 mm/s
Printout length	15 s



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