

RELIABLE: ALWAYS, EVERYWHERE

PROFESSIONAL DEFIBRILLATORS
FOR EMERGENCY MEDICINE

DefiMonitor EVO



www.primedic.com



PRIMEDIC™
Saves Life. Everywhere.

'Every day is a
new start'

Thomas Stearns Eliot



FURTHER. BETTER.



WHEN EVERY MINUTE COUNTS, PRIMEDIC™ DEFIBRILLATORS CAN HELP HEARTS STOP MISSING ANOTHER BEAT. ANYWHERE. WHAT MATTERS IS THAT THEY CAN USED QUICKLY. ANY TIME.

WORLDWIDE EXCELLENT REPUTATION

Perfect technology, easy operation, great mobility and absolute reliability in extreme conditions: unmistakable attributes of PRIMEDIC™ defibrillators. No wonder our extremely robust devices enjoy an excellent reputation in resuscitation and emergency medicine worldwide.

DECADES OF EXPERIENCE

Our family-run company has been serving medical technology for 40 years, manufacturing professional and automatic defibrillators in Germany for professionals and laymen. We are advancing the evolution of new technologies for a better quality in close cooperation with clinics and operators.

PROFESSIONALS NEEDED

Our new top product evolved from consistent improvements to the DefiMonitor XD and HeartSave series: the DefiMonitor EVO. Built for use by paramedics and emergency services, our defibrillators combine maximum equipment with the greatest reliability possible. With it, no valuable time is lost during use.

PRIMEDIC™. Saves Life. Everywhere.

PRIMEDIC™ – DefiMonitor EVO

FACTS FOR PROFESSIONALS

FEATURES OF THE 12-CHANNEL DEFIBRILLATOR

- ▶ Manual, AED and monitor
- ▶ Transthoracic external pacemaker
- ▶ Pulse oximeter (SpO₂)
- ▶ NIBP
- ▶ IBP (2-channel)
- ▶ Capnography (EtCO₂)
- ▶ Temperature (2-channel)
- ▶ Interpretation mode
- ▶ 3G/GSM, WLAN
- ▶ Up to 12 ECG-channels simultaneously
- ▶ Multiparameter patient monitoring
- ▶ Accessory pouches for optimised storage
- ▶ Integrated thermal printer
- ▶ Data management
- ▶ Shock- and scratch-resistant TFT-LCD monitor, easy to read in any situation

TEN HOUR OPERATION WITHOUT CHARGING

The highest level of innovation guarantees the operational reliability of the DefiMonitor EVO in even the worst of weathers. Powerful batteries ensure up to ten hours of operating time without recharging. Direct mains operation is possible.

MODULAR PRODUCT DESIGN FOR INDIVIDUAL NEEDS

Adapted to the needs of modern emergency medicine, the DefiMonitor EVO ensures continuous patient monitoring in both the preclinical and clinical fields. The modular product design permits different configurations from a basic to a fully equipped model for individual needs.



RUGGED POWER PACK

- ▶ SOLID CONNECTOR SYSTEMS
- ▶ IMPACT BUFFER (EXTERNAL RUBBER FRAME)
- ▶ IMPACT AND SCRATCH RESISTANT MONITOR
- ▶ HIGH IP PROTECTION CLASS
- ▶ NON-BREAKABLE PADDLES
- ▶ INTEGRATED ACCESSORIES BAG TO PROTECT ACCESSORIES AND DEVICE
- ▶ CHARGER EVO | WALL MOUNT EVO
- ▶ SAFE STORAGE OF THE INTEGRATED PEDIATRIC PADDLES
- ▶ CERTIFIED ACCORDING TO EN1789

PERFORMANCE OF DefiMonitor EVO ON SCENE

1 **ADVANCED ENERGY MANAGEMENT** for up to 10 hours operating time. Reliable continuous operation is guaranteed by an intelligent battery management system or direct mains operation.

2 **OPTIMISED CARRYING COMFORT** thanks to the bar carry that lies safely in the user's hand. The quick readiness for use on site is also ensured through the use of a shoulder strap.

3 **MULTIFUNCTION KNOB** permits intuitive and logical navigation through the control menu.

4 **QUICK ACCESS BUTTONS** permit the direct call-up of all important functional elements.

5 **HIGH-RESOLUTION, MULTIFUNCTION TFT LCP COLOUR MONITOR** allows the simultaneous display of all 12 ECG leads. Individual user settings are possible in setup menu.

6 **INTEGRATED THERMAL PRINTER** allows the comparison, documentation and print out of analysis results and patient data.

7 **INTELLIGENT CABLE MANAGEMENT** saves valuable time.

8 **SAFETY** is guaranteed by the extensive alarm system and automatic tests of all internal system components.



SIDE CONNECTIONS





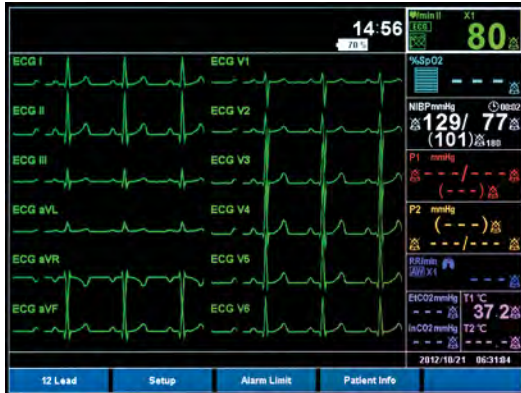
product
design award

2014



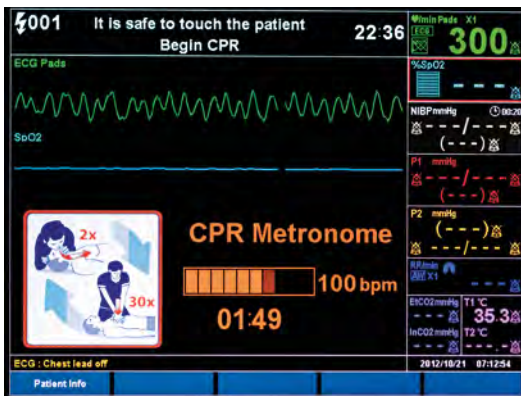
OPTIONS

12-LEAD ECG



12-channel ECG visible simultaneously.
 12-lead-ECG Interpretation with Glasgow University Algorithm.

AED / MANUAL MODE



Visual user support during resuscitation with clear icons in AED mode

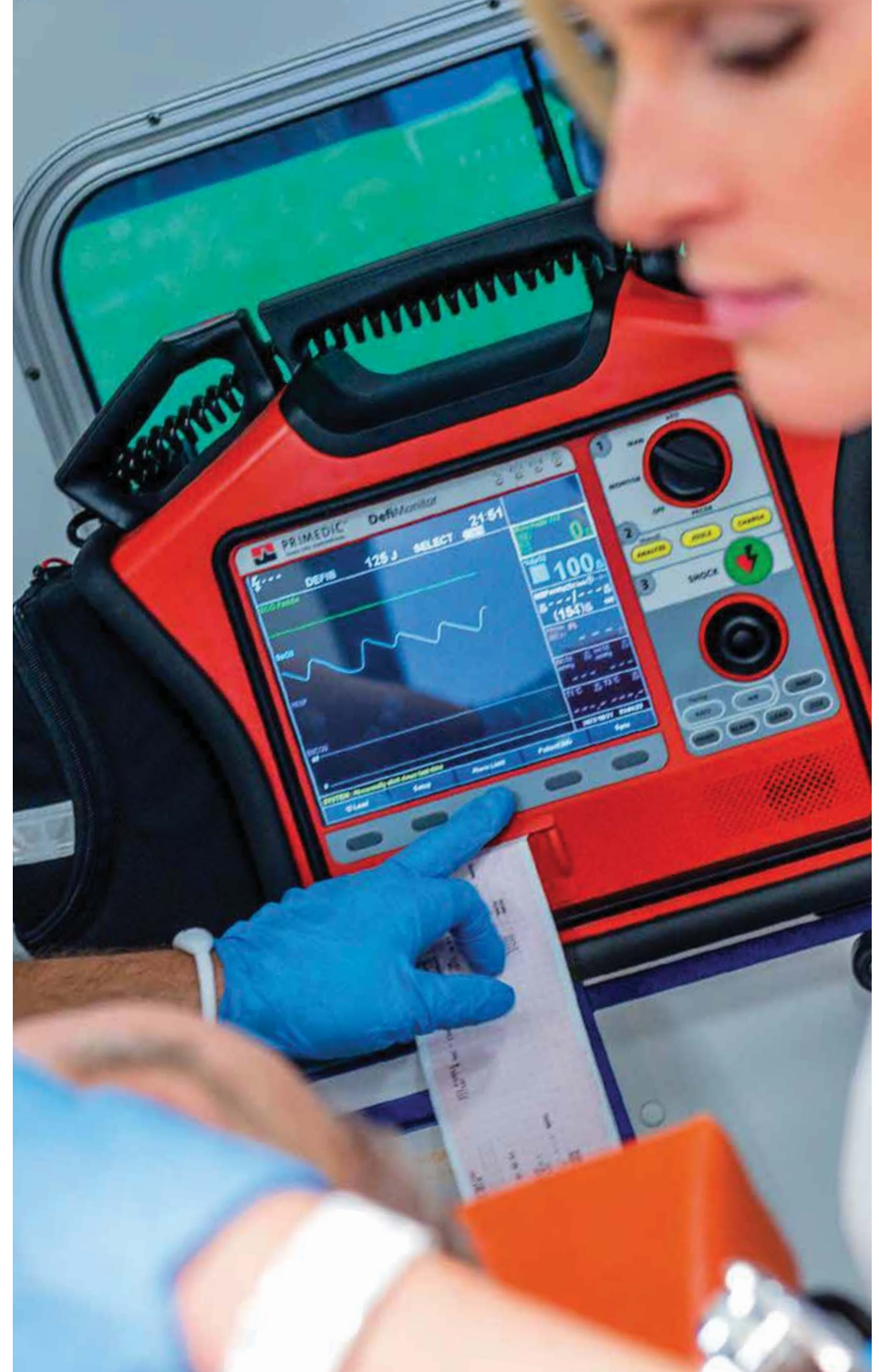


MONITOR MODE, FULLY EQUIPPED

Large display range for a number of physiological signals (e.g. ECG, plethysmogram, invasive blood pressure (IBP) etc.)



- 1 ECG WAVEFORM DISPLAY
- 2 SpO₂ PULSE OXIMETER
Type: Nellcor® Oximax® Sensor
- 3 NIBP (non-invasive blood-pressure measurement)
- 4 IBP
(invasive blood-pressure measurement)
2-lead IBP
- 5 RESPIRATION
Respiratory rate is derivable from different sources
- 6 EtCO₂ CAPNOGRAPHY
Type: Respirationics®
Sidestream/Mainstream-Module
Capnography
- 7 TEMPERATURE
2-channel temperature





MULTIFUNCTIONAL PADDLES: HANDY, SAFE AND STRONG

The functionally optimised defibrillation paddles of the DefiMonitor EVO are easy and safe to use. A particularly positive feature of the handy, non-breakable paddles: Thanks to the innovative bayonet mechanism, the adult's paddle quickly becomes

a pediatric paddle – no adaptor required. So electrodes are always where you need them at all times: right on the device. Classic PRIMEDIC™ SavePads Connect guarantee hands-free defibrillation at any time.

SELECT ENERGY



PADDLE SET



PRIMEDIC™ SavePads Connect



CHARGE / RECORD / PRINT (REC)



INTEGRATED PEDIATRIC PADDLES



SavePads AED



ENERGY MODULES

DEVICE WITH POWER SUPPLY AND BATTERY



DEVICE WITH POWER SUPPLY W/O BATTERY



DEVICE WITH 2 BATTERIES



DEVICE WITH ONE BATTERY



INDIVIDUAL BATTERY



POWER SUPPLY (WIDE RANGE POWER SUPPLY)



WALL MOUNT CHARGER

EN1789 Approved

ONE-HANDED RELEASE Step 1



WALL MOUNT



ONE-HANDED RELEASE Step 2



DEVICE ON WALL MOUNT



ONE-HANDED RELEASE Step 3



LED CAPACITY CHECK



CABLE MANAGEMENT

LEFT SIDE
WITHOUT CABLE



LEFT SIDE
WITH CABLE



RIGHT SIDE
WITHOUT CABLE



RIGHT SIDE
WITH CABLE



DEVICE WITHOUT
ACCESSORIES BAG

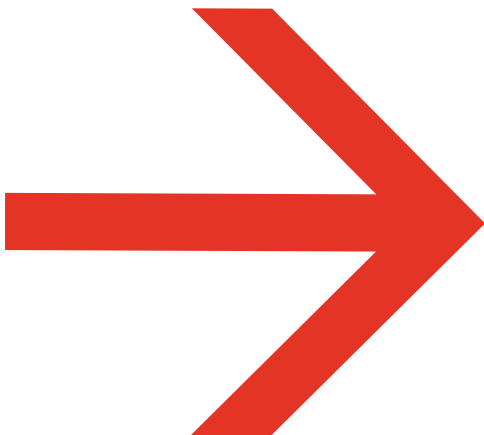


DEVICE WITH
ACCESSORIES BAG



TECHNICAL DATA

DefiMonitor EVO



General	
Modes of operation	AED mode, automatic ECG analysis with audio and visual instructions, manual mode, asynchronous and synchronous defibrillation per paddles or self-adhesive electrodes, ECG monitoring and pacing
Defibrillation	
Impulse shape	Biphasic
Energy in the automatic mode	According to patient impedance
Energy levels in manual mode	1J, 2J, 3J, 4J, 5J, 6J, 7J, 8J, 9J, 10J, 15J, 20J, 30J, 40J, 50J, 75J, 100J, 125J, 150J, 175J, 200J, 300J, 360J
Charge time	< 6s for 200 J (with a new, fully charged battery at 25 °C) 8s for 360 J (with a new, fully charged battery at 25 °C)
Pacemaker detection	Detect pacer pulses of ± 2 mV to ± 700 mV with pulse widths of 0.1 msec to 2 msec and a rise time of 10 % of the width but not more than 100 μ s
Cardioversion	Manual activation of the cardioversion via the SYNC button, defibrillation via paddles as well as self-adhesive electrodes
Defibrillation electrodes	
Adhesive electrodes	Hands-free
Shelf life	36 months
Cable length	2.0 m
Active electrode surface	174 cm ² overall
Paddles	Adult electrodes with built-in child's electrodes
Functions of paddles	Energy selection and charging/discharging as well as printing of data by operating the paddles
Monitor	
Model	TFT-LCD colour, dual mode
Dimensions	170 x 128 mm (diagonal 8.4"/ 212 mm)
Resolution	800 x 600 pixel
Number of channels	4 waveforms or 12 ECG channels, cascaded can be shown
Resuscitation guideline	
Factory set	Guideline 2010 (ERC/AHA)
ECG	
12-Channel-Leads	Extremities acc. to Einthoven (bipolar) I, II, III , extremities acc. to Goldberger (unipolar) aVR, aVL, aVF , thoracic wall leads acc. to Wilson (unipolar) V1, V2, V3, V4, V5, V6
Heart rate	20 to 300 bpm
Analysis time	5–9s
Interpretative algorithm	12-channel interpretation analysis program of Glasgow University
Transthoracic pacemaker (NIP)	
Modes	FIX, DEMAND
Stimulation frequency	30 ppm to 180 ppm
Impulse current	0 mA to 140 mA
Impulse shape	Rectilinear, constant current
Pulse oximeter (SpO₂)*	
Model	Nellcor®
Range	1 % bis 100 %
Pulse rate	20–300 bpm
Accuracy	70% – 100%“

* Option

NIBP*	
Operation mode	Manual and automatic measurement of interval
Technology	Oscillometric measurement
Measurement range adult/child	SYS 60 to 250 mmHg / MAP 45 to 235 mmHg / DIA 40 to 200 mmHg
Measurement range neonatal	SYS 40 to 120 mmHg / MAP 30 to 100 mmHg / DIA 20 to 90 mmHg
IBP*	
Measurement range	-50–300 mmHg
Channels	2 parallel connections
Capnography (EtCO₂)*	
Type/EtCO ₂ -Module	Respironics® / Mainstream / Sidestream
Ambient-CO ₂ -level	0–150 mmHg
Parameter	EtCO ₂ , InCO ₂
Temperature*	
Measurement method	Thermistor, YSI compatible
Range	0 to 50 °C (32.0 to 122 °F)
Channels	2 parallel connections
Respiration Rate	
Technology	Impedance measurement via ECG electrodes / Capnography
External interfaces	
SD Memory Card	For extended memory (for software updates)
Telemetry	3G/GSM, WiFi
Data management	
Memory	12-channel ECG (100 records) / event (250 records)
Storage medium	internal memory, SD card
Integrated printer	
Model	Thermal printer
Channels	up to 12 channels
Paper	Thermal paper, folded
Paper size	80 mm
Printer speed	25 or 50 mm/s
Power supply	
AC power	Wide range power supply 100 V–240 V, 50 Hz/ 60 Hz
Rechargeable battery	Lithium-ion, 14,4 V / 5200 mAh
Operation time	Up to 10 hours
Number of shocks	200 shocks@200 J (1 battery), 400 shocks@200 J (2 batteries)*
Recharging time	Approx. 5 hours
Dimensions	
Height x width x depth	Approx. 350 mm x 430 mm x 220 mm
Weight	Approx. 7 kg excluding paddles, accessories and energy supply
Accessories	
Standard	Accessories bag
Options	
Fixation	Vehicle charger / wall mount EVO according to standards EN1789
Ambient conditions	
Protection class	IP55
Operating temperature	0–50 °C
Storage temperature	-20–70 °C
Rel. humidity	5–95 %, non-condensing

*Option





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