

RELIABLE: ALWAYS, EVERYWHERE

PROFESSIONAL DEFIBRILLATORS
FOR EMERGENCY MEDICINE

DefiMonitor **EVO**





FURTHER. BETTER.



WORLDWIDE EXCELLENT REPUTATION

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

DECADES OF EXPERIENCE

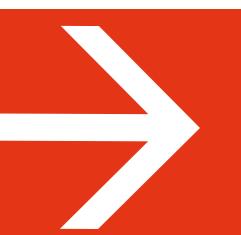
Our family-run company has been serving medical technology for 40 years, manufacturing professional and automatic defibrillators in Germany for professionals and laymen. We are advancing the evolution of new technologies for a better quality in close cooperation with clinics and operators.

PROFESSIONAL S 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 reliabilty 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 mode
- ► Transthoracic pacer (NIP)
- ► Pulse oximeter (SpO₂)
- ► NIBP
- ► IBP (2-channel)
- ► Capnography (EtCO₂)
- ► Temperature (2-channel)
- ► Interpretation mode

- ► 3G/GSM, WLAN, Bluetooth
- ► Up to 12 ECG-leads simultaneously
- ► Multiparameter patient monitoring
- ► Accessory pouches for optimised storage
- ► Integrated thermal printer
- ► Data management
- ► Shock- and scratch-resistant TFT 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 ten hours of standby operation without recharging.

MODULAR PRODUCT DESIGN FOR INDIVIDUAL NEEDS

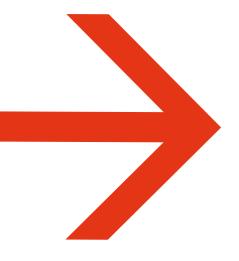
Adapted to the needs of modern emergency medicine, the DefiMonitor EVO ensures continuous patient monitoring in both the preclinical and clinical fields. The modular product design permits different configurations from a basic to a fully equipped model for individual needs.





- **MONITOR**
- ► HIGH IP PROTECTION CLASS
- ► NON-BREAKABLE PADDLES

- ► SAFE STORAGE OF THE INTEGRATED CHILDREN'S PADDLES
- ► CERTIFIED ACCORDING TO ONE-METRE DROP TEST AND EN1789





SIDE CONNECTIONS

PERFORMANCE OF **Defi**Monitor **EVO** ON SCENE

- ADVANCED ENERGY
 MANAGEMENT for up to 10 hours
 standby mode. Reliable continuous
 operation is guaranteed by an intelligent
 battery management system or direct
 mains operation.
- OPTIMISED CARRYING
 COMFORT thanks to the carrying
 handle 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.
- CENTRAL ROTARY KNOB permits intuitive and logical navigation through the control menu.
- QUICK ACCESS BUTTONS
 permit the direct call-up of all important
 functional elements.

- HIGH-RESOLUTION,
 MULTIFUNCTION COLOUR
 MONITOR allows the simultaneous
 display of all 12 ECG leads. Individual
 user settings are possible in setup menu.
- PRINTER allows the comparison, documentation and print out of analysis results and patient data.
- INTELLIGENT CABLE
 MANAGEMENT saves valuable time.
- SAFETY
 is guaranteed by the extensive alarm
 system and automatic tests of all
 internal system components.





OPTIONS

12-LEAD ECG



Free, user-based configuration options for the 12-lead ECG display

AUTO/ MANUAL MODE



Visual user support during resuscitation with clear icons in AUTO mode



MANUAL MODE, FULLY EQUIPPED



- ECG CURVE DISPLAY
- SpO₂ PULSE OXIMETER **NELLCOR® OXIMAX® SENSOR**
- NIBP (non-invasive blood-pressure measurement)
- IBP (invasive blood-pressure measurement) 2-lead IBP
- 5 RESPIRATION
- EtCO₂ CAPNOGRAPHY Type: Respironics®/ sidestream/mainstream module
- **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



ENERGY MODULES

DEVICE WITH POWER SUPPLY W/O BATTERY



DEVICE WITH POWER SUPPLY WITH BATTERY



DEVICE WITH 2 BATTERIES



DEVICE WITH ONE BATTERY



INDIVIDUAL BATTERY



POWER SUPPLY (WIDE RANGE POWER SUPPLY)



WALL MOUNTING/ CHARGER **EN1789** Approved

ONE-HANDED RELEASE Step 1



WALL MOUNTING



ONE-HANDED RELEASE Step 2



DEVICE IN 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



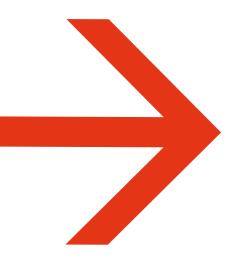
DEVICE WITHOUT POUCHES



DEVICE WITH POUCHES







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
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, 150J, 175J, 200J, 300J, 360J
Charge time	< 6s for 200 J (with a new, fully charged battery at 25 °C) 9s 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, not to exceed 100 msec.
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	164 cm² 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 or 12 ECG leads, 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, aVF, thoracic wall leads acc. to Wilson (unipolar) V, V1, V2, V3, V4, V5, V6
Heart rate	0.20 to 300 bpm
Analysis time	5–9s
Interpretative algorithm	12-channel interpretation analysis program of Glasgow University
Transthoracic pacemaker (NIP)	
Modes	Demand, Async (FIX)
Stimulation frequency	30 ppm to 180 ppm
Impulse current	0 mA to 140 mA
Impulse shape	Rectilinear, constant current
Pulse oximeter (SpO ₂)	
Model	Nellcor®
Range	1% bis 100%

NIBP	
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 to 300 mmHg
Channels	2 parallel connections
Capnography (EtCO ₂)	
Туре	Respironics®
Ambient-CO ₂ -level	From 0 to 700 ppm
EtCO ₂ -module	Sidestream/mainstream
Temperature	
Measurement method	Thermistor
Range	0 to 50 °C (32.0 to 122 °F)
Channels	2 parallel connections
Respiration	
Technology	Impedance pneumography / non-dispersive infrared spectroscopy
External interfaces	
USB	Memory stick port
SD Memory Card	For extended memory
Telemetry	3G/GSM, WLAN, Bluetooth
Data management	
Memory	12-channel ECG (100 records) / event (250 records)
Storage medium	USB memory, SD card
Integrated printer	
Model	Thermal print
Channels	1 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, 10.8 V/ 7200 mAh
Operation time	Up to 10 hours
Number of shocks	200 Schocks@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	11 0
Standard	Accessory pouches included
Options	7 *
Fixation	Vehicle wall charging station according to standards EN1789
Ambient conditions	Han one ging station about any to standards E1117-05
	0. 5000
Operating temperature	0-50°C
Storage temperature	-20-70°C
Rel. humidity	5-95%, non-condensing
Rel. humidity	5–95%, non-condensing



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