



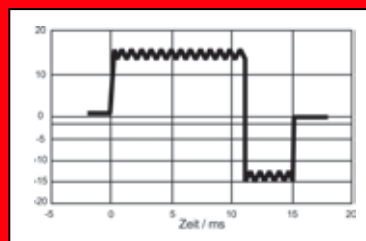
# DefiMonitor XD



## Biphasic defibrillation technology – patient-specific, gentle and effective.

The new PRIMEDIC™ biphasic defibrillation technology has been integrated in the **DefiMonitor XD** generation. The defibrillation pulse generated by a current-controlled pulse output stage, excludes current peaks that are damaging to cardiac muscle. The delivered energy is calculated in the automatic mode on the basis of body resistance, which ensures a high success rate by means of patient-specific treatment. The user can also exercise full control over the defibrillation energy in the manual mode, if required.

The current changes its direction within a defined period of time (biphase). This feature facilitates a gentle and exceedingly effective defibrillation procedure.



The first and second phase of the PRIMEDIC™ pulse is a square wave pulse. This makes it virtually ideal for effective defibrillation.

## DefiMonitor XD

Functional design allows  
safe and fast application.





## Easy operation for the highest demands!

METRAX has been analysing experiences of users in clinics and rescue services for years. This know-how is concentrated in the **DefiMonitor XD**, making it ideally configured for routine medical application.

Its modern design is characterised by an extremely robust casing, powerful technology and very easy operation. This permits effective action even in extreme situations.

The full range of functions of the **DefiMonitor XD** coupled with its low weight, make it an ideal device for use in emergency medicine. User friendly operation – very powerful technology. Concentrate on the emergency while relying on **DefiMonitor XD**.

**DefiMonitor XD** is also equipped with a mounting fixture and a charging system, allowing it to be positioned wherever it is needed.

Top performance is not necessarily expensive, as you will be pleased to find out when making an inquiry. **The DefiMonitor XD product family – practical help for all circumstances!**



## DefiMonitor XD

Know-how all the way to the paddles.



Quick and easy: Defibrillation electrodes for children are always available at the emergency site. An innovative mechanism allows conversion of the adult electrodes into children's electrodes in no time at all. This makes sure

that the children's paddles are where they should be at all times – on the **DefiMonitor XD**. The ergonomically shaped paddles make sure that you have a good grip with maximum capacity performance.

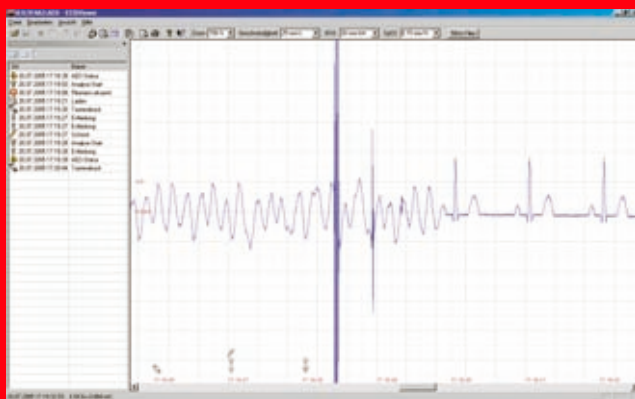




## Easy to handle, reliable and well-proven in practice. **DefiMonitor XD**


Light weight and easy to handle make working with the **DefiMonitor XD** very pleasant and comfortable. The removable memory cards of the new **DefiMonitor XD** family now provide the option of transferring all recorded ECG data to any regular PC for archiving – simple and uncomplicated. Free selection of a voice recording option is standard for all XD products and can be used for evaluation purposes if you wish.

All 6 ECG channels can be selected independently from each other – you choose which 2 curves you wish to view on the monitor. For additional patient monitoring security, the XD products are optionally equipped with an integrated Nellcor SpO<sub>2</sub> pulse oximeter. Cutting edge technology. **The DefiMonitor XD product family – certainly the right choice for you and your patients!**



The PRIMEDIC™ ECG Viewer allows easy assessment and archiving of medical emergency data. The layout of the display is detailed and very clear.

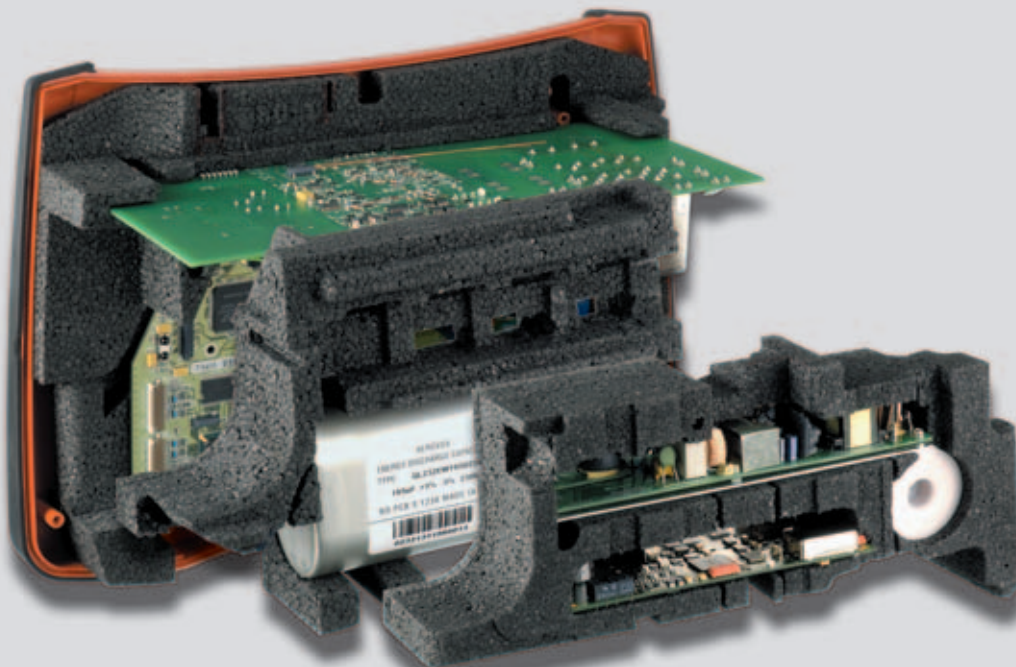




Unfavourable light conditions are no problem for **Defi**Monitor XD with its large and high-contrast Blue-Mode TFT-LC-Display (115 mm x 86 mm). This ensures an optimal and reliable view of the monitoring process, even in bright light conditions. The transthoracic pace-maker (NIP) supplements or takes over stimulation of the cardiac muscle in emergencies.



## Harsh conditions – no problem!



Application under difficult conditions requires reliable and extremely stable equipment. Shock-absorbing interior lining and an unbreakable plastic casing protect the **Defi**Monitor XD.

The technical equipment inside is isolated from damage due to blows or unfavourable weather, ready for use and functioning perfectly under all conditions.

# DefiMonitor XD Accessories

The basic equipment provided with all XD products makes them ready-to-use immediately. An extensive range of accessories is also available.



ECG Patient Cable, 3-pole



SavePads Connecting Cable, 2-pole



PRIMEDIC™ SavePads



PRIMEDIC™ Nellcor Finger Sensor



PRIMEDIC™ Power Line



PRIMEDIC™ Wall Mounting Fixture  
with One-Hand Unlocking Device



The technical specifications provide an overview of the performance of the **DefiMonitor XD** product family. Should you have any queries or require further information, please do not hesitate to contact us by telephone. We will be pleased to arrange a personal meeting if you wish. Take advantage of an on-location demonstration of the versatility of the applications of the PRIMEDIC™ **DefiMonitor XD** product series.



# Technical data

		XD1	XD3	XD10	XD30	XD100	XD300	XD110	XD330
<b>Defibrillation</b>									
Pulse shape external	Biphasic, current-controlled pulse	•	•	•	•	•	•	•	•
Energy - AUTO	140 – 360 J					•	•	•	•
Energy - MANUAL	5 – 360 J	•	•	•	•	•	•	•	•
Charging time	< 6 sec for 200 J	•	•	•	•	•	•	•	•
Operating modes	Asynchronous - SYNC	•	•	•	•	•	•	•	•
Patient resistance	20 – 200 ohm	•	•	•	•	•	•	•	•
<b>ECG</b>									
Leads	I, II, III, aVR, aVL, aVF	•	•	•	•	•	•	•	•
Heart rate	30 – 300 per min	•	•	•	•	•	•	•	•
Alarms	30 – 300 per min	•	•	•	•	•	•	•	•
<b>VF/VT-detection</b>									
Analysis time	7 – 12 sec					•	•	•	•
VF threshold	0.2 mV					•	•	•	•
Asystole threshold	< 0.2 mV					•	•	•	•
Pacemaker detection						•	•	•	•
<b>Pacer</b>									
Transthoracic Cardiac Pacemaker (NIP)				•	•			•	•
Operation modes	Fix, Demand, Overdrive			•	•			•	•
Pacing Frequencies	(Fix, Demand) 30 ... 180 1/min (Overdrive) 30 ... 250 1/min			•	•			•	•
Pulse shape	Square 20 ms			•	•			•	•
Pulse amplitude	30 ... 180 mA, current-controlled			•	•			•	•
Refractory period	240 ms (100 ... 250 1/min) 340 ms (30 ... 100 1/min)			•	•			•	•
<b>Pulse Oximeter</b>									
Type	Nellcor		•		•		•		•
Indicating range	100 ... 0%		•		•		•		•
Calibration range	100 ... 50 %		•		•		•		•
<b>Display</b>									
Type	TFT, LCD-Blue-Mode	•	•	•	•	•	•	•	•
Dimensions	115 x 86 mm (diagonal 5.7"/144 mm)	•	•	•	•	•	•	•	•
Resolution	320 x 240 (pixel size 0.36 x 0.36 mm)	•	•	•	•	•	•	•	•
Speed	25 mm/s	•	•	•	•	•	•	•	•
Mode, SpO <sub>2</sub> -curve			•		•		•		•
<b>Printer</b>									
Type	Direct thermal printer	•	•	•	•	•	•	•	•
Resolution	200 dpi	•	•	•	•	•	•	•	•
Paper width	58 mm	•	•	•	•	•	•	•	•
Printing width	50 mm	•	•	•	•	•	•	•	•
Feed	25 / 50 mm/s	•	•	•	•	•	•	•	•
Operating modes	AUTO-/ONLINE-/MEMO-print	•	•	•	•	•	•	•	•
<b>Electrodes</b>									
Non-polarized electrodes		•	•	•	•	•	•	•	•
Storage	2 years	•	•	•	•	•	•	•	•
<b>Data Management</b>									
Removable storage unit	32 – 128 MB or 1 – 5.4 h with voice recording or 6 – 48 h without voice recording	•	•	•	•	•	•	•	•
Voice recording		•	•	•	•	•	•	•	•
Reading software ECG Viewer		•	•	•	•	•	•	•	•
<b>Energy Supply</b>									
AkuPak (rechargeable battery)		•	•	•	•	•	•	•	•
Type	NiCd Output data 12 V, 1.4 Ah	•	•	•	•	•	•	•	•
Discharge processes	60 at 360 Joule	•	•	•	•	•	•	•	•
Monitoring	5 h	•	•	•	•	•	•	•	•
Charging time	approx 3 h external, 1 h internal	•	•	•	•	•	•	•	•
<b>Internal Power Supply</b>									
Voltage	100 – 240 V, 50/ 60 Hz	•	•	•	•	•	•	•	•
<b>Environmental conditions</b>									
Operating conditions	0° – 55°C	•	•	•	•	•	•	•	•
Storage conditions	-30° – +65°C	•	•	•	•	•	•	•	•
Protective system	IP 33	•	•	•	•	•	•	•	•
<b>Dimensions</b>									
Height x Width x Depth	approx 26 x 26 x 9 cm	•	•	•	•	•	•	•	•
Weight	approx 4.5 kg	•	•	•	•	•	•	•	•

## Your innovative partner for life-saving action.

With over 20 years of experience in research, development and production of defibrillators and mobile ultrasound equipment, METRAX is a leading specialist for ultra-modern medical technology products world-wide. With the brand PRIMEDIC™, METRAX provides one of the most reliable and innovative product programs for emergency medicine. The XD generation defibrillators have been developed specifically for use in hospitals, by rescue services and doctor's surgeries. The **DefiMonitor** XD product family is finding ever-increasing application in rescue missions, thanks to progressive technology, practical design, simple utilisation and a convincing price-performance ratio.



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