cor science
cardiovascular innovations

MEDICAL INNOVATIONS
CUSTOMIZED TO YOUR NEEDS!

BDM65

Corscience Professional Defibrillator Module

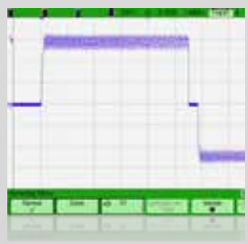
The development of a professional defibrillator is a timeconsuming and expensive affair due to the safety-critical application and the regulatory requirements, which require a lot of experience. Human lives depend on defibrillators! Corscience has been an active B2B technology provider in the area of defibrillation for more than 10 years. We offer you the unique option of purchasing top-class technology in the form of an OEM board or to license it for your own production. Based on this, your professional defibrillator will meet the strict requirements of the DIN, ISO and IEC standards – not only will you save time and money during development, but you will particularly minimize your product risk.

The BDM65 professional defibrillator module is designed specifically to fit the needs of physicians and trained personnel. It includes advanced features such as cardioversion (synchronized shock), interfacing to thirdparty ECG amplifiers and monitoring systems, as well as the possibility of switching between automatic and manual defibrillation mode. The BDM65 current-controlled/energy-triggered biphasic-waveform technology can deliver shock energies from as low as 1 J up to 300 J, making it possible to provide optimal defibrillation therapy to adult as well as to pediatric patients.

The BDM65 module features Corscience proven ECG algorithms for processing and analyzing ECG data acquired through the defibrillator electrodes or through third-party systems. Available analyses include:

- Heart-rate measurements
- Ventricular-fibrillation and ventricular-tachycardia detection
- Asystole detection
- Patient detection
- Impedance measurements
- Motion detection

The BDM65 module will convince you with its high sensitivity, specificity and quality. Corscience's defibrillation technology and analysis algorithms are used worldwide in a multitude of licensed defibrillators.



Technical Information Professional Module

- Physical characteristics
  Module-size: 170 x 212 x 40 (LxWxH) mm; Weight: 450 g
- Operating conditions
  Temperature: 0 °C – 50 °C
  Relative humidity: < 95 % non-condensing
  Air pressure: 800 – 1060 hPa
- Defibrillation
  Current-controlled/energy-triggered biphasic waveform
  programmable between 1 – 300 J
- Communication interface
  UART/115200 Baud rate
- Patient connection
  Defibrillator protected

Technical Information ECG Algorithms

- Heart-rate measurements (30 – 250 bpm)
- VF/VT detection (Sensitivity > 94 %; Specificity > 98 %)
- Asystole detection
- Patient detection
- Impedance measurements
- Motion detection

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