

BeneHeart DX

Defibrillator / Monitor

New Wave of Rescue Flexibility



reddot winner 2023





Infinite Possibility with Flexibility

Novel Modular Design

The defibrillator incorporates the N1 monitoring module, which can function both independently and in conjunction with the defib host, providing exceptional adaptability to complex pre-hospital scenarios.



Magnetic connector

Automatically attracted to connect, no precise alignment is required



All in one

Manual defib /AED /pacing
ECG /SPO₂ /NIBP /CO₂ /IBP /TEMP



Status indicator

Clear status at a glance with comprehensive auto-test



6-channel printer

Paper width 110 mm for up to 6 curves

Capacitive Full Touch

With advanced high-definition capacitive touch screen technology and flat UI design, DX offers optimal experience of clearer display and smoother operation, enabling efficiency at your fingertips.



Optimal visibility

- First 9" display with 1200 x 1020 resolution
- Auto-brightness



Wide adaptability

- With the intelligent sensing, you can operate DX normally, even if
- the screen is wet
 - wearing up to 5 layers of gloves



Confident operation

- Gesture-control touchscreen
- Keep physical knob and buttons for key operations



Visual AlarmSight

A series of problem-solving support with graphical visualization, suggesting how to resolve the problems



What can a modular defibrillator do for you?

While monitoring is sufficient for most emergency patients, having a defibrillator at the ready is essential for handling deadly cardiac incidents during pre-hospital rescues. The conventional all-in-one defibrillator/monitor has long been the standard solution, but its size, weight, and numerous accessories can make it cumbersome to maneuver. With the new modular defibrillator/monitor BeneHeart DX, however, the innovative design of the defib host and N1 monitoring module offers unparalleled flexibility to adapt to a range of complex scenarios, improving the efficiency of rescues.



Get off to pick up patient

According to the severity of the patient's condition at the emergency scene, you can choose to pack lightly with the N1 monitoring module only.



In SCA rescue

The defib host and N1 modules can independently display defibrillation settings and vital signs without interfering with each other, ensuring clear visibility of critical information. To support seamless integration of defibrillation and monitoring data, wireless connectivity is enabled between the modules.



On the way to hospital

The N1 module stays with the patient during transport, allowing for seamless monitoring, while the defib host can be carried by medical personnel, remaining at the ready for any potential emergencies.



Handover

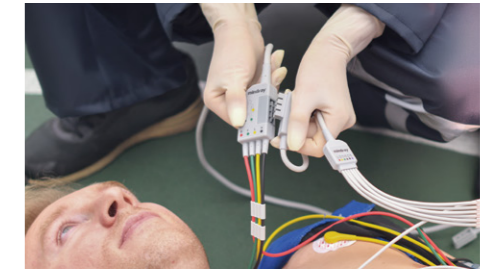
The N1 module can be directly plugged into a BeneVision N series monitor in the hospital, facilitating seamless integration of pre-hospital patient data for advanced in-hospital care.





Professional 12-lead ECG Analysis

- Special 12-lead ECG accessories: integrated 4 limb leads + removable 6 chest leads, more flexible for both monitoring and resting analysis
- Connection status indicator automatically displays to help find the disconnected leads
- Critical value & MI location help to quickly judge the risk and situation of patients with chest pain
- Serial comparison of two ECG reports on one screen allows to easily observe abnormal changes

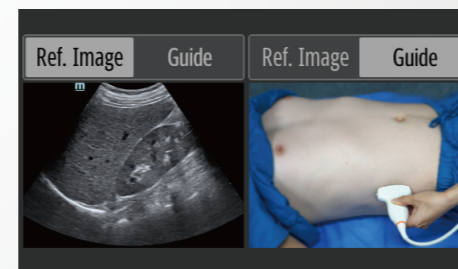


One Device with Multi-talent

In the face of unpredictable rescue, you often hope to provide more on-site diagnosis and analysis for patients to give treatments as soon as possible, but various devices make your rescue journey unbearable. This is why we have given DX more diagnosis and analysis technologies. It is not only a defibrillator/monitor, but also a 12-lead ECG machine, a point-of-care ultrasound, an infrared ear thermometer, and a set of scoring and early warning tools.

Point-of-care Ultrasound (POCUS)

- Step-by-step trauma identification (FAST/eFAST)
- Reference images help quickly detect abnormalities by scanning comparison
- Operation guides show how to properly place the probe

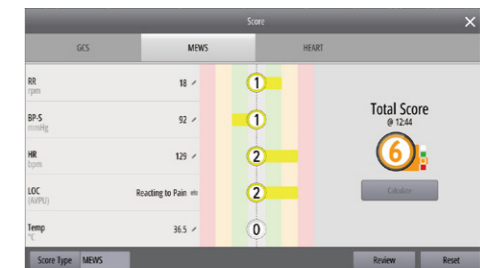


- High-quality images with excellent resolution for accurate decision-making
- Support heart, lung, abdominal examination, no need to carry extra probes

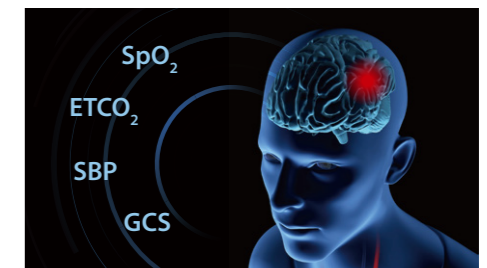


Scoring & Early Warning Tools

- Support GCS/EWS/HEART scoring
- Help to rapidly obtain the severity of the patient and detect the risk of deterioration in time



- TBI (Traumatic Brain Injury) warning combined with GCS and vital signs (SpO₂ /ETCO₂ /SBP) monitoring
- Effective management and timely treatment of TBI patients to ensure better prognosis

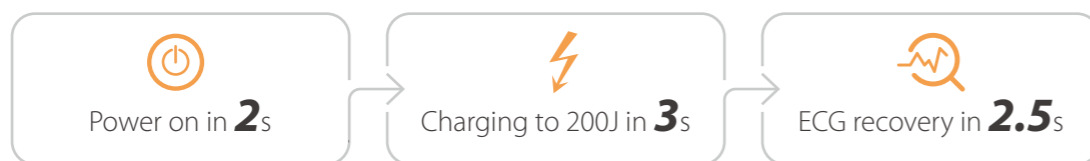


Rescue Triangle, More Comprehensive

High-quality rescue requires the resuscitation team to maintain the high quality and effectiveness of cardiopulmonary resuscitation during the rescue process. It also relies on timely, regular review and analysis of the rescue data and rescue quality that helps identify the routine training and assessment. Only by combining and advancing the three-in-one solution can the quality of rescue and the survival rate of SCA patients be improved.

QShock® -Faster Time to Shock

In line with the BeneHeart series, DX is also equipped with new QShock® technology, taking less than 5s from power on to shock.



Shorter Interruption

Mindray has developed state-of-the-art technologies that can filter out the compression interference for both ALS and BLS, to effectively reduce pauses in recognizing heart rhythm*.

Raw ECG with compression interference

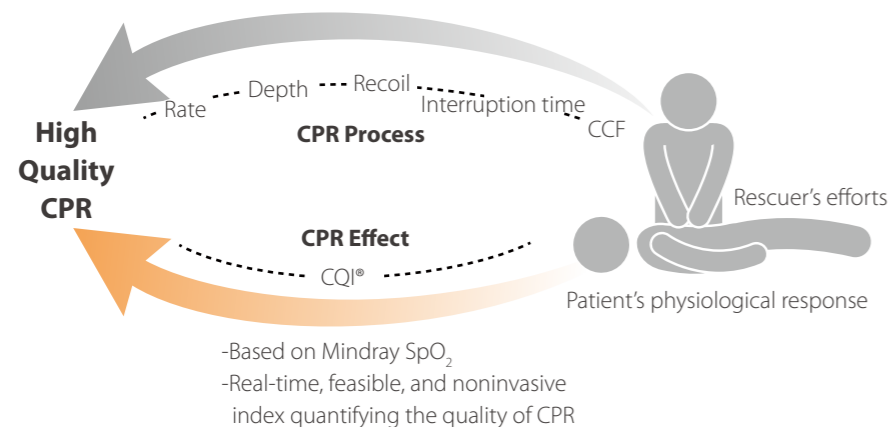


Filtered ECG without compression interference



CPR Feedback of both Process & Effect

With the CPR process feedback monitoring the real-time performance of rescuers, and the effect evaluation reflecting patients' responses to the rescue, DX provides a comprehensive assessment of CPR quality to obtain a satisfactory resuscitation result.



More Complete Process Evaluation Tech
+
Groundbreaking Effect Evaluation Tech

* Only available when you perform CPR using defib pads or the CPR sensor.



Structured Debriefing

DX's structured debriefing protocols improve the performance of resuscitation teams in subsequent resuscitation events.

- The key data of each rescue is automatically uploaded to the debriefing system
- CPR quality and defibrillation data included
- Not only post-event analysis, but also periodic review



Hands-on Training

- Training mode in DX help you get real operation experience
- Both single and multi-person mode are available
- Support CPR and defib operation training



Redefine Toughness with Innovation

Lightweight, compact and sturdy, this is Mindray's new generation of high-end defibrillator /monitor DX. Powered by innovative technologies, DX is designed to withstand demanding environmental conditions, fighting side by side with you anywhere, anytime.

Meets all standards for helicopter and other transport



Operate in temperatures ranging from -20°C up to +55°C, fearless of any extreme challenge



- IP55 water-/dust-proof
- More durability when using common cleaners and disinfectants (up to 49 kinds)



6-surface 1.5m drop protection



Bend-resistant defib cable, withstanding hundreds of thousands of bending tests

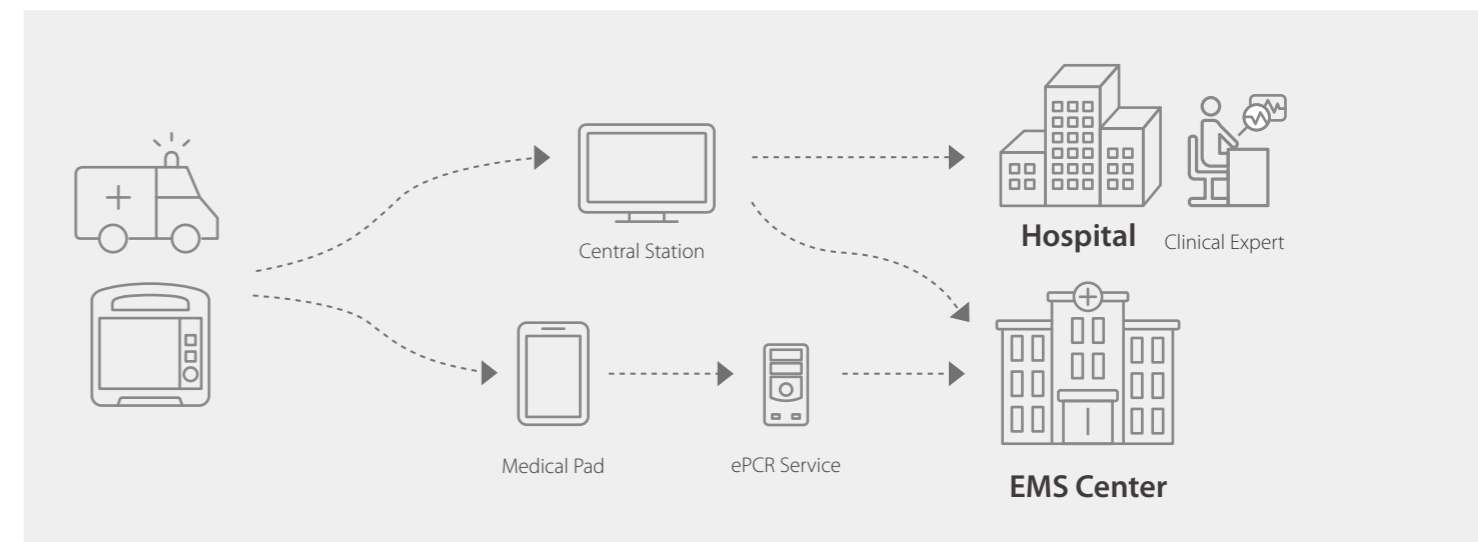


Keep Connected with Greater Efficiency

A defibrillator contains rich data resources, not only the patient data that medical staff are concerned about, but also device status that managers need to know. In the past, due to the lack of systematic solutions, it was difficult to effectively and comprehensively manage such information, and the defibrillator became a "data silo". M-Connect™ IT solutions are designed to help you solve this problem.

Pre-hospital IT Solution

M-Connect™ IT solution for pre-hospital scenario enables the data transmission between remote vehicle and in-hospital department in real time, helping medical staff to diagnosis and prepare in advance.



Flexible data transfer

DX can not only send patient data to the CMS service remotely via 4G, but also connect the medical pad via Wi-Fi or Bluetooth to send the data to the ePCR system.



Pre-arrival Clinical Data

Pre-arrival patient data such as real-time vital signs, 12-lead report, and ultrasound report can be sent to the target hospital when patient is in transport.

