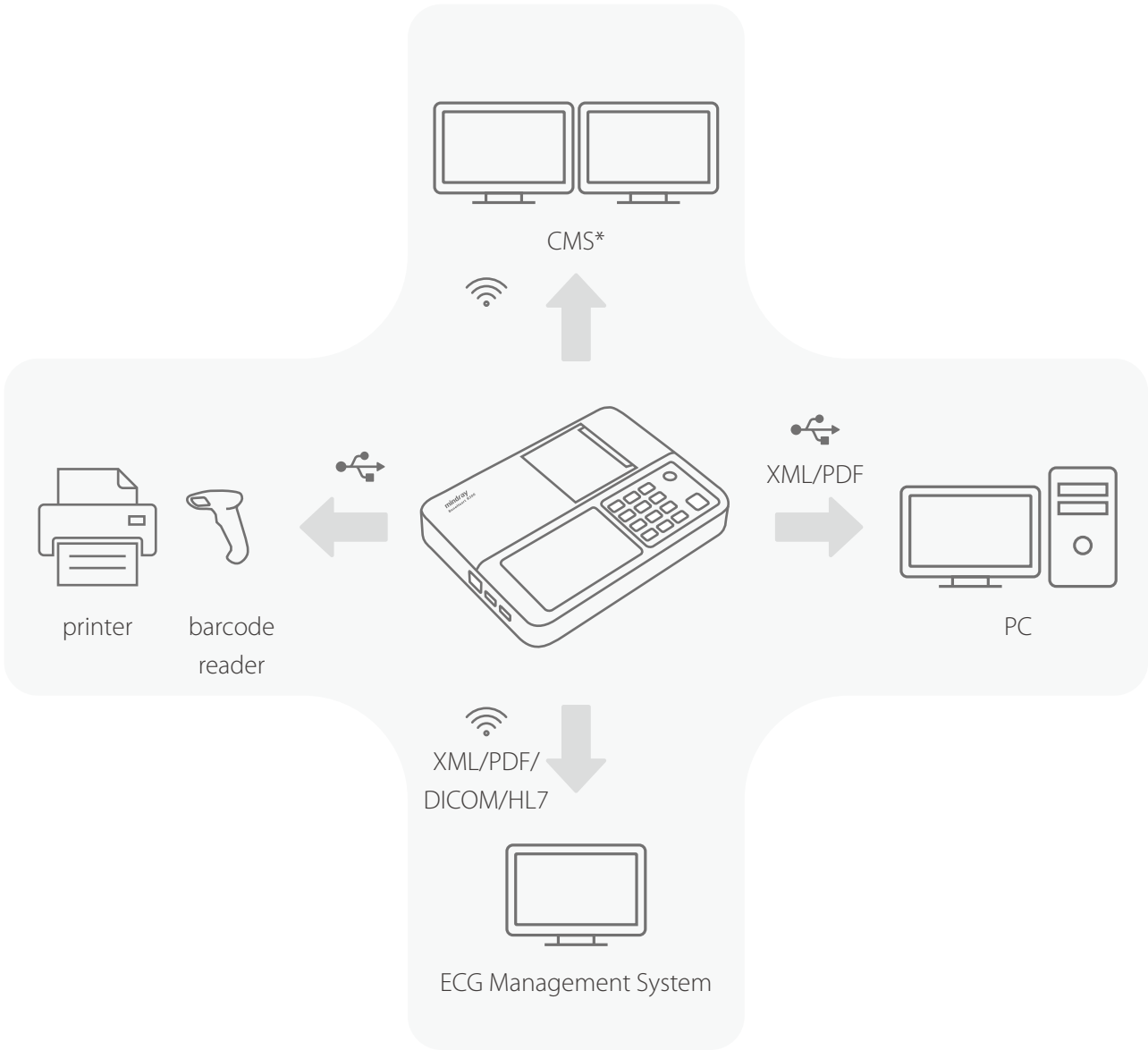
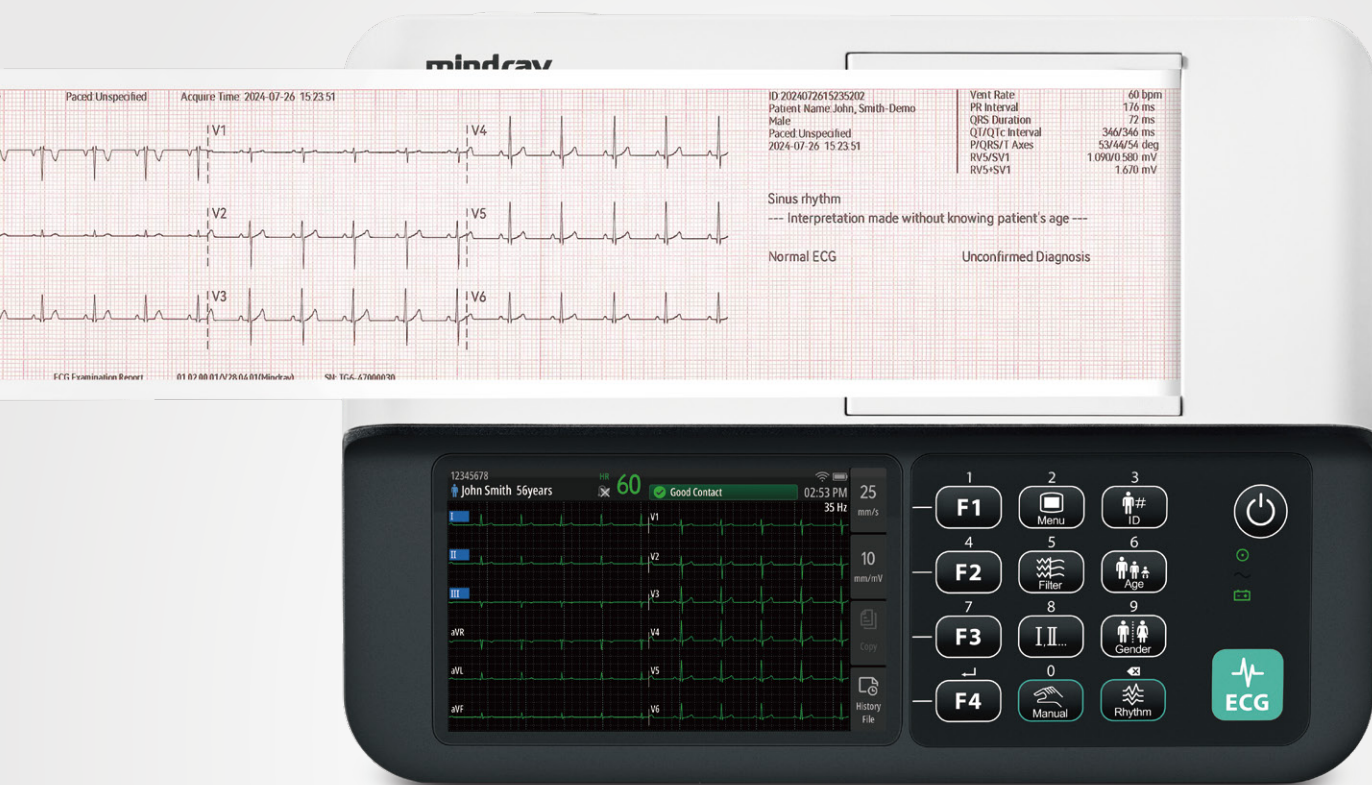


BeneHeart R300
Electrocardiograph



* Will be available in future updates





Clear display

5" color screen for real-time waveforms observing



Versatile recorder

Support both rolling and Z-fold paper



Light weight

Only 1.28kg (with battery) and compact size



Large capacity

Store over 1000 reports



Longer operating time

At least 10 hours of paperless recording



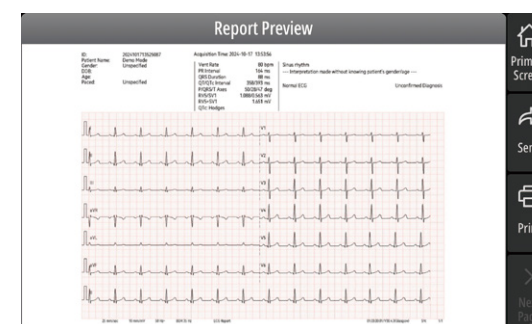
Great mobility

The trolley makes R300 mobile to wherever needed



Convenient Operation

The user-friendliness of BeneHeart R300's interface provides several paper-saving features, the report preview (before printed), re-analysis (if the patient information is modified) and E-report transmission.



Reliable Analysis



R300 supports both the University of Glasgow 12-lead ECG analysis program and Mindray 12-lead resting ECG analysis algorithm for adults and pediatrics, both of which provide accurate and reliable analysis references to give you more confidence in diagnosis.

The Glasgow algorithm is the first to be based on specific variables, including age, gender, race, medication, and class in order to maximise the accuracy of the ECG interpretation.

Mindray has accumulated and inherited more than 20 years of experience in the field of ECG analysis. It has used tens of thousands of clinical ECG data for development and iteration, passed the internationally authoritative CSE evaluation, and achieved more balanced algorithm performance (sensitivity & specificity).

Note: Some functions are optional, please consult your local sales representative for availability.

BeneHeart R300

Electrocardiograph



Technical Specifications	
Physical Specifications	
Height	≤60 mm
Width	≤210 mm
Length	≤270mm
Weight	≤1.5 kg
Measurement Specifications	
Frequency response	0.01~500Hz
ECG sampling rate	64000 samples/s (A/D)
Pacer sampling rate	96000 samples/s (A/D)
Common mode rejection	≥ 140 dB (AC filter on) ≥ 123 dB (AC filter off)
Time constant	≥3.2 s
ADC	24 bits
A/D resolution	0.1192 μV/LSB
Input impedance	≥ 100 MΩ (10 Hz)
Display sensitivity	Auto, 1.25 mm/mV, 2.5 mm/mV , 5 mm/mV, 10 mm/mV, 20 mm/mV , 10/5 mm/mV, 20/10 mm/mV, (± 5%)
Electrode offset potential tolerance	±900mV, ± 5%
Minimum signal	20 μV p-p(10Hz)
Calibration signal	1mV ± 1%
Noise level	≤12.5 μV (p-p)
Baseline filter	0.01Hz, 0.05 Hz, 0.56 Hz
EMG filter	20 Hz, 35 Hz, OFF
Lowpass filter	150 Hz, 270 Hz, 350 Hz
Notch filter	50 Hz, 60 Hz, OFF
Rejection on power frequency interference	≥20 dB
Input signal range	±10 mVpp
Accuracy of signal reproduction	In compliance with the requirements of IEC 60601-2-25
Defibrillation proof	Enduring 5000V (360 J) charge without data loss or corruption
Baseline recovery time	<5 s (after defibrillation)
Electrode polarization recovery time	<10 s
Defibrillation energy absorption	≤10% (100Ω load)
AC overload protection	10 s
Channel crosstalk	≤0.5mm
Time deviation between channels	< 100μs
Pacer detection	Amplitude: ±500 μV to ±700 mV Width: 30 μs to 2ms
HR measurement range	30 to 300 bpm
HR accuracy	±1% or ±1bpm, whichever is greater
HR resolution	1 bpm

Display	
Display type	Color TFT LCD
Display size	5 inches
Display resolution	800×480 pixels
Display data	patient ID, patient name, gender, age, heart rate, pacemaker, warning messages, information messages, time, battery power indicator, network, waveforms, lead labels, pace annotations, speed, gain
Power	
Power supply	AC input (without external power adaptor) or battery operation
AC Power	
Input voltage	100 to 240 VAC ±10%
Input current	1.0 to 0.5A
AC frequency	50/60 Hz
Battery	
Battery type	Rechargeable lithium-ion battery, 2600mAh
Charge time	Less than 3 hours to 90% and less than 3.5 hours to 100% with equipment turned off.
Battery capacity	At least 500 auto reports, or 2 hours of continuous paper recording, or 6 hours of paperless recording.
Shutdown delay	at least 5 minutes after the low battery alarm first occurs
Recorder	
Recorder type	High-resolution thermal recorder
Paper speed	5 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s. (± 5%)
Printing resolution	Horizontal 32 dots/mm (25 mm/s) , Vertical 8 dots/mm
Paper type	80mm×20m (rolled paper) 80mm×70m×200 pages (folded paper)
Software	
Measurement and interpretation	Supports <i>the University of Glasgow 12-lead ECG analysis program</i> and <i>Mindray 12-lead Resting ECG Analysis Algorithm</i> for adults and pediatrics
Resting ECG mode	Records and prints 12-lead resting ECG with 10-second duration
Internal storage	1200 ECGs
<div> <div> www.mindray.com P/N:ENG-R300 datasheet -210285X2P-20240911 ©2024 Shenzhen Mindray Bio-Medical Electronics Co.,Ltd. All rights reserved. </div> <div>  healthcare within reach </div> </div>	