Peripherals and Communications



BeneHeart R3

Electrocardiograph

Height: Width: 260 mm Depth: 194 mm

Weight: 1.2 Kg including battery, internal AC power supply

Processing Digital sampling rate:

1000 samples/second/channel

Pacer detection sampling ate: 16.000 samples/second/channe

ECG amplifier: DC-coupled

Acquisition mode: Pre- or post-acquisition, provide 10 seconds of instantaneous

ECG acquisition

AC differential ±10 mV, DC offset ±600 mV Dynamic range:

Resolution: 1 μV/LSB

Frequency response: -3 dB @ 0.05 to 150 Hz

0.05 Hz. Baseline Drift Removal (BDR) Baseline drift filter:

Artifact filter: 20 Hz, 35 Hz

AC filter:

≥110 dB (with AC filter switched off) Common mode rejection:

ADC: 24 hits

Input impedance: >50 MΩ @ 10 Hz, defibrillator protected

Time Constant ≥3.2 s Noise Level ≤15 µV Patient leakage: <10 uA

Heart rate meter: 30 to 300 BPM ±10% or ±5 BPM, whichever is greater

Startup time: ≤5 second 5.10.20 mm/mV. Auto Sensitivity/gain:

Display

Display type: 5-inch 24-bit color, TFT LCD with LED graphics backlit Display resolution:

800*480 pixels

Patient ID, gender, age, heart rate, clock, battery power Display data:

indicator, waveforms, lead labels, speed, gain and filter settings, warning messages, information messages, network,

USB status

AC input (without external power adaptor) or battery

AC Power

100 to 240 VAC ±10% Input voltage: Input power:

AC frequency: $50/60 \text{ Hz} \pm 3 \text{ Hz}$ Battery

Rechargeable Lithium ion battery, 11.1 V, 2500 mAh Battery type: Battery capacity: 6 hours of continuous operation without recording or 500 ECGs in 2.5x4 format at 25 mm/s and 10 mm/mV

Battery charge time: 3.5 hours with power off

Writer Writer technology:

Thermal dot array Writer Width:

5, 12.5, 25, 50 mm/s Writer speed: 3 leads + 1 rhythm or 3 leads; user selectable



Writer speed accuracy:

Resting ECG mode:

Internal storage:

Wifi (Optional)

Report Formats

ECG Storage format:

Multi-language support:

Barcode scanner (Optional)

Connect to external printer directly (Optional)

Extensional Function

Paper type:

Writer amplitude accuracy: ±5%

sheets/pack)

Measurement and interpretation: Supports the University of Glasgow 12-lead ECG analysis program for adults and pediatrics

duration as a standard feature

Supported patient information: Name, patient ID, secondary ID, age, date of birth, gender, race,

XML, PDF, Mindray

4 by 2.5s Compact

4 by 2.5s + 1 rhythm lead

2 by 5s + 1 rhythm lead

ECG patient cable with banana plugs, banana to tab lead adapters, ECG tab electrodes

15% to 95% RH non-condensing

10% to 95% RH non-condensing

4 by 2.5/5/7.5/10s (Simultaneous)

Continuous 1 or 3 channel manual rhythm

Auto-rhythm (60-second ECG data for 1 rhythm lead)

Reanalyze ECG automatically after changing patient's demographics

Upload XML or PDF reports through FTP protocol (Optional)

USB flash drive storage of PDF and XML outputs (Optional)

Thermal printer report formats: 4 by 2.5s (Sequential)

PDF report format (A4/Letter): 4 by 2.5s +1 rhythm lead

ECG cable with Electrode clips (IEC/AHA)

Country-specific power cords

Environmental Specification

Z-fold and Roll paper

Temperature

Operating:

Humidity

Operating:

Pressure

Operating:

Transport/storage

Transport/storage:

2 by 5s

1 by 10s

ECG patient cable with banana plugs, Limb Clamps, Chest Bulbs (IEC/AHA)

-20°C to 60°C

57.0 kPa to 107.4 kPa

16.0 kPa to 107.4 kPa

Supports 13 languages

medication, class, V3 electrode Placement.

Horizontal 32dots/mm @ 25mm/s, Vertical 8 dots/mm Thermal roll paper (20 m) or Z-fold paper (80 mm width, 200

Records and prints 12-lead resting ECG with 10-second



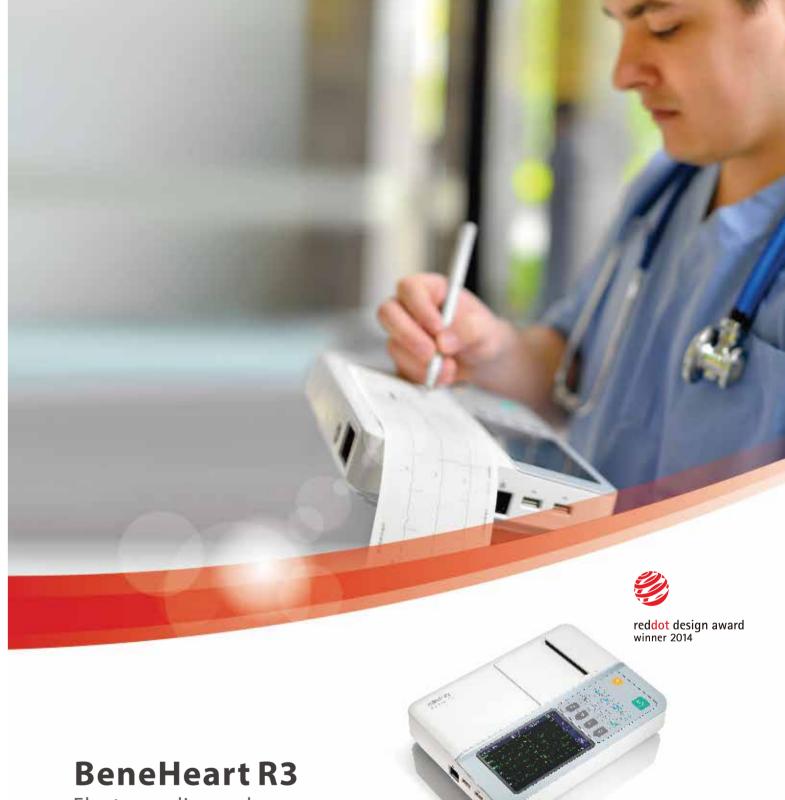
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Electrocardiograph

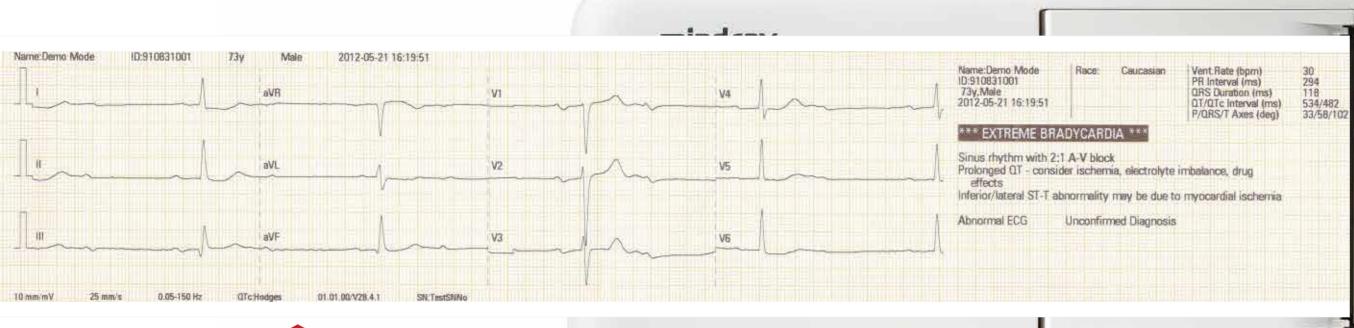
Your Faithful Consultant for Resting ECG Diagnosis





BeneHeart R3

Electrocardiograph





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

On the report, a headline may highlight one of several "critical value warnings" to alert medical attendants of findings that need immediate attention.

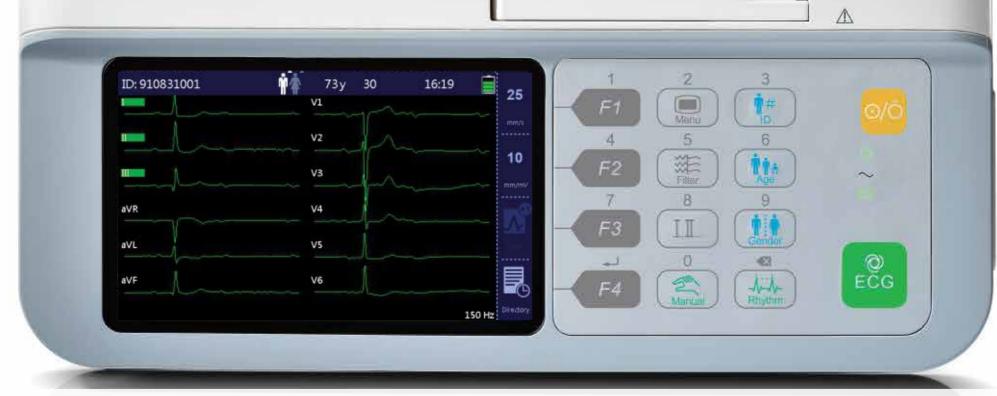
For neonates and children, lead V4R is used instead of V3 to improve the diagnostic accuracy.

Reliable Analysis

BeneHeart R3 utilizes the University of Glasgow ECG analysis algorithm, one of the world-leading resting ECG interpretations with 50 years of history.

Clear Display

5-inch color screen offers the highest resolution in industry, enabling clinicians to observe real-time waveforms accurately.





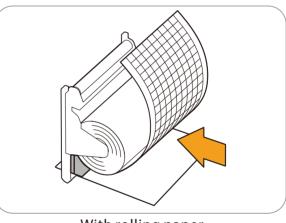
Great Mobility

The BeneHeart R3 weighs only 1.2kg with battery, easy to carry. The trolley can makes BeneHeart R3 mobile to wherever it is needed.

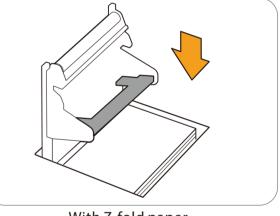


Convenient Operation

The user-friendliness of BeneHeart R3's interface provides several paper-saving features, the report preview (before printed), re-analysis (if the patient information is modified) and E-report transmission.







With Z-fold paper

Unique Recorder

Compatible with both rolling paper and Z-fold paper, you can easily switch between these two styles of papers without dismantling the pressure lever.