

## MINDRAY BENEHEART R3 ELECTROCARDIOGRAPH

### • 33301 MINDRAY BENEHEART R3 ELECTROCARDIOGRAPH 3 channels

BENEHEART R3 is a lightweight portable cardiograph for resting ECG diagnosis.

#### Reliable analysis - Glasgow algorithm

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

#### Great Portability - only 1.2 kg

The BeneHeart R3 weighs only 1.2 kg with battery, easy to carry.

#### 5" clear colour display

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

#### Convenient operations

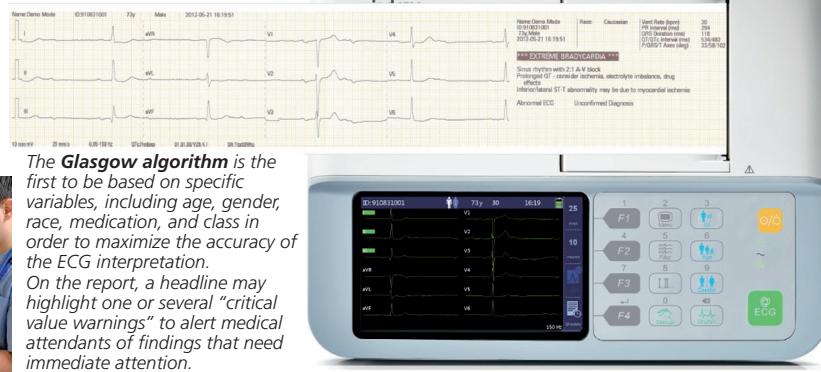
ECG recording is automatically unfolded on the writing pad at the top of the unit for notes or signature.



**mindray**

#### Unique recorder - Z-folded or rolling paper

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



Power	
Power supply:	AC input without external power adaptor or battery operation
AC power:	100 to 240 VAC $\pm$ 10% 60 VA
Battery-type:	rechargeable Lithium ion battery
- capacity:	11.1 V typical, 2,500 mAh 6 hours of continuous operation without recording or 500 ECGs in 2.5 x 4 format at 25 mm/s and 10 mm/mV
- charge time:	3.5 hours with power off
Processing	
ECG analysis sampling rate:	500 samples/second (sps)
Digital sampling rate:	1,000 samples/second/channel
Pacer detection sampling rate:	16,000 samples/second/channel
ECG amplifier:	DC-coupled
Acquisition mode:	Pre-acquisition or post-acquisition provide 10 seconds of instantaneous ECG acquisition

TECHNICAL SPECIFICATIONS	
Baseline drift filter:	0.05 Hz, Baseline Drift Removal (BDR)
AC filter:	50/60 Hz $\pm$ 0.3 Hz
ADC:	24 bit
Input impedance:	50 MD at 10 Hz, defibrillator protected
Patient leakage:	< 10 $\mu$ A
Heart rate meter:	30 to 300 BPM $\pm$ 10% or $\pm$ 5 BPM, whichever is greater
Sensitivity/gain:	5, 10, 20 mm/mV, Auto
Display	
Resolution:	TFT LCD with LED graphics backlit
Display data:	800x400
Thermal printer:	Patient ID, gender, age, heart rate, clock, battery power indicator, waveforms, lead labels, speed, gain, filter settings, warning messages, information messages, network status and USB
	Dot array/Width 80 mm/speed 5, 12.5, 25, 50 mm/s

Software	
Measurement and interpretation:	according to University of Glasgow ECG analysis algorithm
Resting ECG mode:	Records and prints 12-lead resting ECG with 10-second duration as a standard
Patient information:	Patient ID, secondary ID, age, date of birth, gender, race, medication class and V3 electrode placement
Internal storage:	800 ECGs in internal memory
ECG Storage format:	PDF format and Mindray storage format
Multi-language internal software:	GB, FR, IT, ES, DE, PL, PT, TR, RU, HU, RO, CZ, CN
Report formats	Thermal printer/PDF/A4/letter
Size/Weight:	250x194xh 56 mm/1.2 kg including battery

## PC-ECG WITH INTERPRETATION SOFTWARE AND USB PORT

### • 33320 PC-ECG + ECG LAB SOFTWARE

Innovative PC-ECG device that can be connected to your PC via USB port. No power cable is required as it is powered through the USB PC cable. The unit is supplied with a 10 banana plug ECG cable (length 295 cm) and a powerful interpretation software (GB, FR, IT, DE, ES, PT, CN).

Main software features:

#### - 12 lead resting ECG with interpretation

#### - vector ECG

- sampling screen colour customization
- standard or thermal paper print, B&W or colour
- auto interpretation On or Off
- tests comparison
- multi hour ECG monitoring with holter analysis
- simple exercise stress test with report
- e-mail, PDF, ASCII, HL7, Dicom, GDT Interfaces

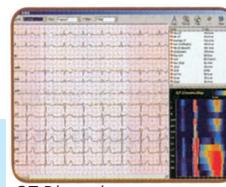
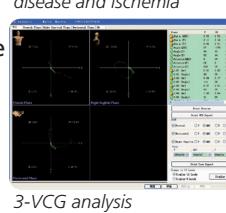
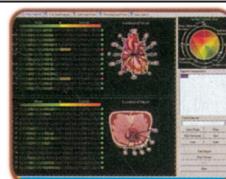
#### • 33328 ECG CABLE - SPARE

#### • 33321 PC-ECG+CARDIOLOGY SOFTWARE

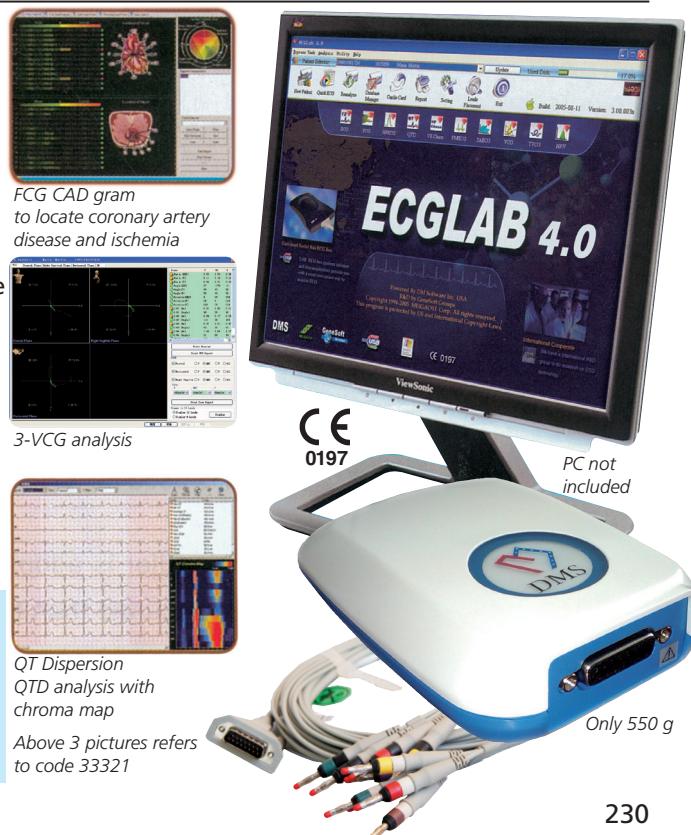
Same as code 33320 but with the following specialist functions:

- timed vector ECG
- SAECG (Signal Averaged ECG) ventricular late potentials analysis
- QTd analysis
- High Frequency ECG (HFECG)
- Frequency Cardiogram (FCECG)
- simple exercise ECG

#### • 33322 CARDIOLOGY SOFTWARE to upgrade 33320 into 33321



Above 3 pictures refers to code 33321



TECHNICAL SPECIFICATIONS	
Communication port:	USB - Support HL7, Dicom interface
Size:	120x85x28 mm - 190 g
Power source:	5V DC (from PC USB port)
Patient insulation:	4000 V AC
Defibrillation protection:	built-in patient cable
Sample rate:	10240Hz - Sample accuracy: 16 bit
PC minimum requirements:	Windows 2000, XP Vista and Windows 7 CPU $\geq$ 1 GHz - HD $\geq$ 40 G - RAM $\geq$ 256 M

STANDARD ACCESSORIES	
4 limb electrodes	
6 chest electrodes	
Patient cable 10 leads,	
10 electrodes	
USB pen driver	
CD software	
Banana plug	

Only 550 g