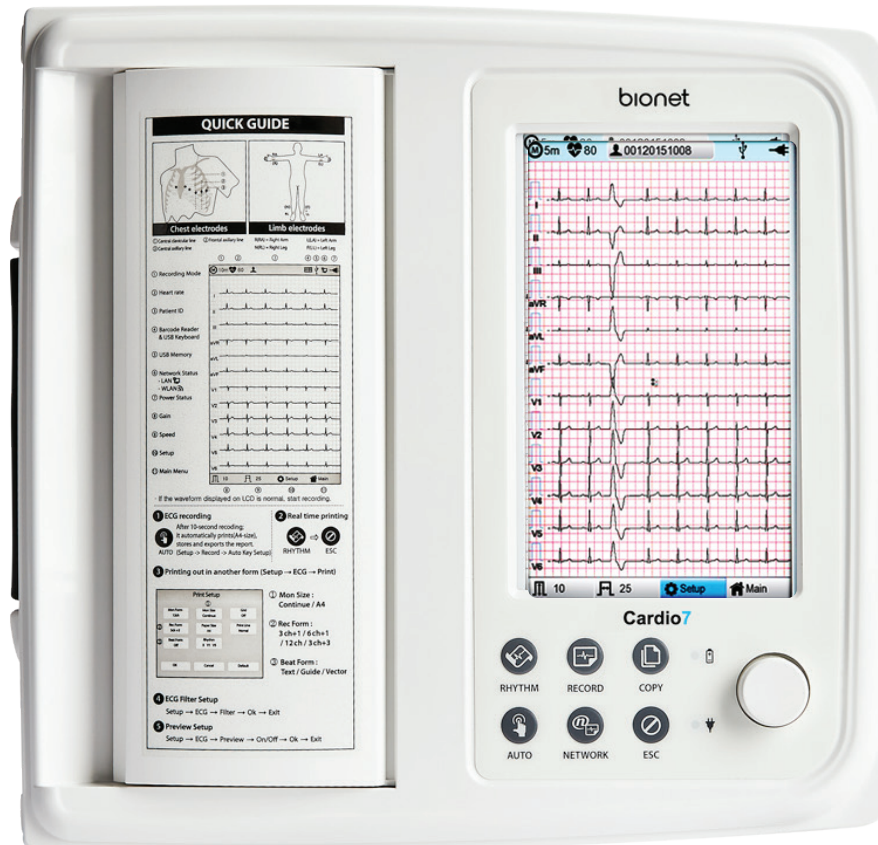


# Cardio7



## Streamlining workflow with Bionet ECG



EASY & Simplifying WORKFLOW with 7" Touchscreen & AUTO button operation



Advanced analysis & Interpretation



Effective data management with 5min. of Full disclosure



Cardiopulmonary monitoring with Spirometry

## EASY Operation

- With 7" Bright Color LCD Touchscreen operation
- Alphanumeric keyboard on screen
- Quick patient ID entry with barcode scanner
- Convenient A4 print-out with 12CH interpretation on/off
- Lead fault detection & notice / Pace-maker detection

## Simplifying workflow

- Easy patient ID entry & worklist orders retrieval
- One touch "AUTO" workflow with acquisition, save, print-out, and transfer to HIS
- Direct DICOM file transfer to PACS
- Convenient various file conversions in PDF, XML, MFER, BMP, JPEG

## Efficient data management & Full disclosure

- 5min. of Full disclosure for Arrhythmia tracing & review
- 200 ECGs internal data memory
- Long-term recording 1min, 3min, 5min, and 10min for HRV analysis
- 10 sec. pre-acquisition for immediate printing of any instant abnormal rhythm at sight

## Advanced Analysis & Report

- VECTOR, GUIDE, TEXT report
- Patented Bionet ST-MAP for enhanced interpretation
- 120 kinds of interpretation based on the Minnesota Code

## Cardio-Pulmonary monitoring with Spirometer ( option )

- Support various function tests: FVC, SVC, MVV
- Various formula integration: Morris-Polgar, ECCS-Quanjer, Knudson-ITS, Pereira, KOREA CJK
- Unique infection-free, disposable mouthpiece solution

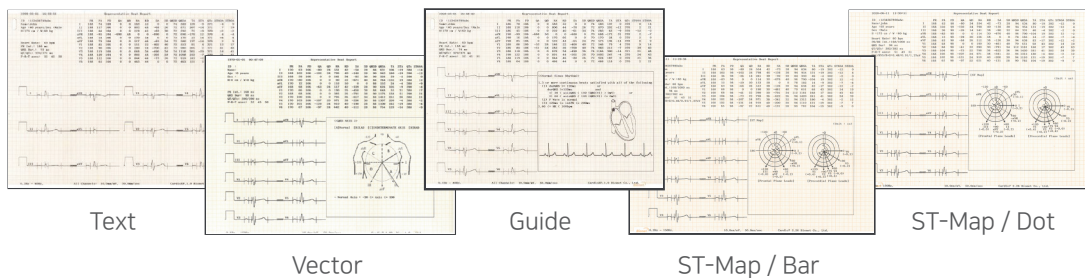
## Excellent connectivity

- LAN, Wifi network connection to PACS/EMR/HIS
- USB : Barcode scanner, external memory, keyboard

## Simple AUTO workflow



## Advanced analysis, Report, & Data Management



### Long-term recording

1, 3, 5, 10 min.

### User-friendly UI

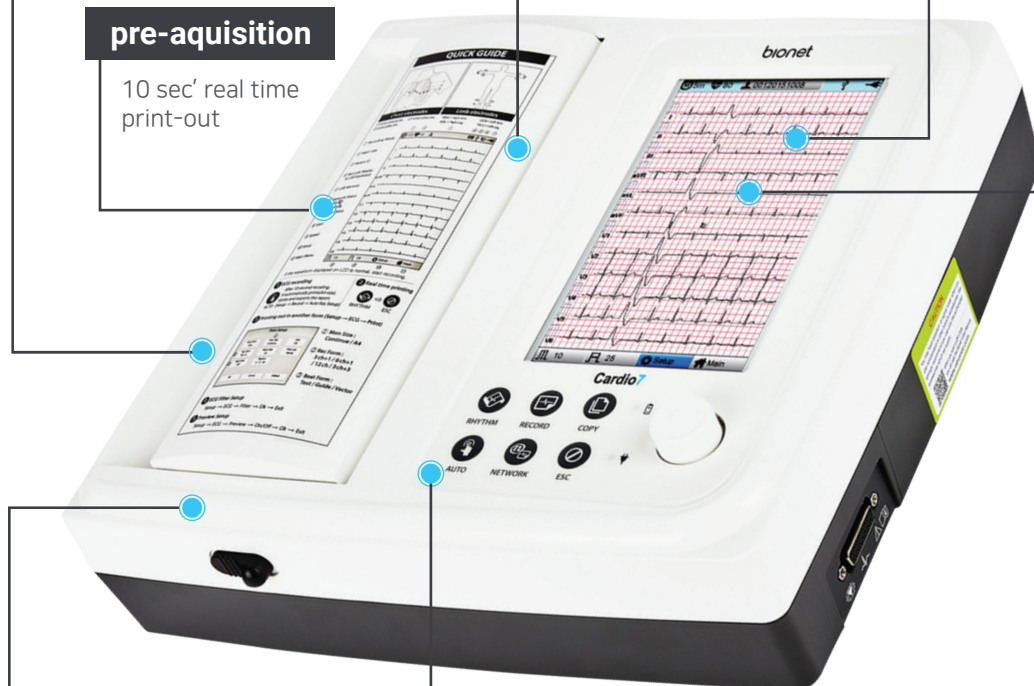
7" LCD Touch screen

### pre-acquisition

10 sec' real time print-out

### Preview screen

Data preview before print-out



One touch  
AUTO Button

AUTO

## Enhanced data capacity

5 min.

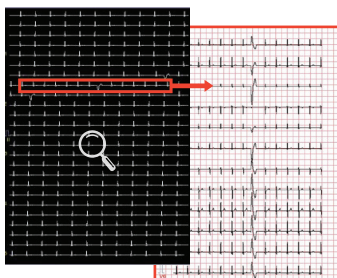
Full disclosure

200ECGs

Internal memory

Easy data search

ID, Name, Age, etc



No	ID	Name	Age	Date	Study
1	uug	nyhj	0	20150708	ECG
2	1234		0		ECG
3	234		0		ECG
4	cdce		0	20150512	MVV
5	ddng	rdvgy	0	20150512	FVC
6	ed		0	20150512	FVC
7	gin		0	20150512	ECG
8	uj		3	20150512	FVC
9	wrtu		0	20150512	FVC
10	1234		0		ECG
11	234		0		ECG
12	cdce		0	20150512	MVV
13	ddng	rdvgy	0	20150512	FVC
14	ed		0	20150512	FVC
15	gin		0	20150512	ECG
16	uj		3	20150512	FVC
17	wrtu		0	20150512	FVC
18	1234		0		ECG
19	234		0		ECG

No	ID	Name	Age	Date	Study
1	11270410	phudg	0	20151127	ECG
2	11275510	gafab	0	20151127	ECG
3	11275510	gafab	0	20151127	ECG
4	7890	dvvt	32	20151127	FVC

Patient Search

Search Condition: ID

ID:

Name:

Day:

Age:

YMD:

Find    Close    All

# Technical specifications

<b>ECG Leads</b>	Simultaneous 12 Leads Resting ECG
<b>Recording Channel</b>	3CH+1RHY, 3CH+3RHY, 6CH+1RHY, 12CH, 6CH+ST map 1CH Long Time(1min, 3min, 5min,10min) and Special Beat Report (Text, Guide, Vector, ST map)
<b>Gain</b>	2.5, 5, 10, 20, Auto (I~aVF: 10, V1~V6: 5) mm/mV
<b>Printing speed</b>	5, 12.5, 25, 50, 100 mm/sec
<b>Sampling rate</b>	Analysis Sampling Rate - 500 Digital Sampling Rate - 8,000
<b>Filters</b>	AC (50/60 Hz, -20dB or better), Muscle (25~35Hz, -3dB or better), Base line drift (0.05Hz, 0.1Hz, 0.2Hz, -3dB or better), Low pass filter(off, 40Hz, 100Hz, 150Hz)
<b>Display</b>	800 x 480 pixel resolution, 7" Color TFT wide display 12 channels preview, ID, HR, Gain, Speed, Power status
<b>User Interface</b>	Touch screen, Rotary push-knob
<b>Printer Resolution</b>	Thermal print head, Roll Paper Report paper - width : A4/Letter 215mm(8.5") - length : A4 297 mm(11.7") Letter 279mm(11") Resolution : 8dot/mm(0.125mm pitch)
<b>Patient data</b>	ID, name, age, gender, height, weight, race, smoke, department, room number, study desc., accession no., referring physician
<b>Basic Measurement</b>	Heart rate(30~300bpm, $\pm$ 3bpm), PR/RR int., QRS dur., QT/QTc int., P-R-T axis, SV1/RV5/R+S amp.
<b>ECG Data Storage</b>	Internal Storage for 200 ECGs : Built- in memory
<b>Electrical</b>	Internal noise: 20 $\mu$ V(p-p)max Input impedance: $\geq$ 50M $\Omega$ Input voltage range: $\pm$ 5mV CMRR: > 105dB DC offset voltage: $\geq$ $\pm$ 400mV Patient leakage current: < 10 $\mu$ A Frequency response: 0.05 ~ 200 with in -3dB Isolated , defibrillation and ESU protected
<b>Signal Quality Control</b>	Pacemaker pulse detection, Lead fault detection, Signal Saturation Detection
<b>Line Power</b>	Input: 100-240Vac, 1.5-0.75A, 50-60Hz Output: 15Vdc, 4.2A
<b>Battery type</b>	Replaceable and Rechargeable, Lithium ion, 10.8V, 3250mA
<b>Battery Capacity</b>	6 hours of normal use or print 200 ECG pages (12 channel format at 25mm/s and 10mm/mV) Battery recharge to full capacity in 3hours.
<b>Communication</b>	LAN, WIFI(option), USB flash driver, USB barcode scanner
<b>Safety Conformity</b>	Class I, Type CF defibrillation-proof applied part.
<b>Environmental Operation</b>	Ambient Temperature: 10~40 $^{\circ}$ C Relative Humidity: 30~85%RH Atmospheric Pressure: 70~106KPa
<b>Environmental Storage/Ship</b>	Ambient Temperature: -20~60 $^{\circ}$ C Relative Humidity: 10~95%RH Atmospheric Pressure: 50~106KPa
<b>Dimensions</b>	300(W) x 290(H) x 89.5(D) mm , Approx. 3.5 kg
<b>Packing dim. &amp; weight</b>	415(W) X 400(H) X 215(D)mm & approx. $\approx$ 6kg
<b>Standard Accessory</b>	Patient cable(1 EA), Limbs electrodes(1 SET), Chest electrodes(1 SET), ECG chart paper(1 EA), Power cord (1 EA), Operation manual & ECG diagnosis guide (1EA)
<b>Options</b>	Rechargeable battery(1 EA), Cart(1 EA), Hanger(1 EA)

\* Specifications can be changed without prior notification.



## Headquarters Bionet Co., Ltd.

5F, 61 Digital-ro 31-gil, Guro-gu, Seoul, KOREA 08375  
TEL. +82 2 6292 6410  
E-Mail. info.sales@ebionet.com