Cardio**7**

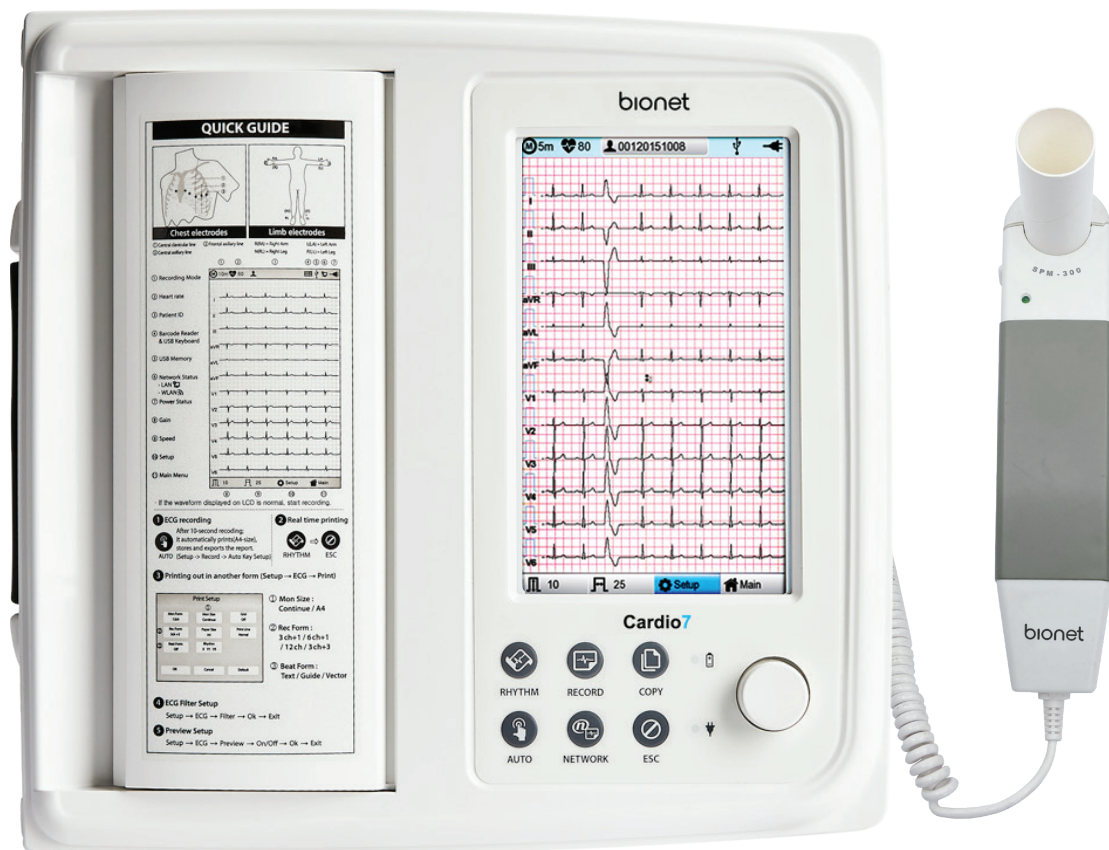
Streamlining workflow with Bionet ECG

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

Advanced analysis
& Interpretation

Effective data management
with 5min. of Full disclosure

Cardiopulmonary
monitoring with Spirometry

bionet
www.ebionet.com

Cardio7

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 Arrythmia 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
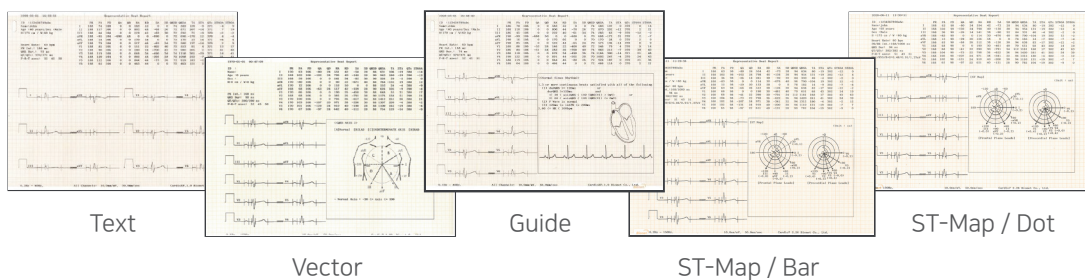- Unique infection-free, disposable mouthpiece solution

Excellent connectivity

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

Simple AUTO workflow

Patient ID

Worklist orders

One touch Auto operation
- Auto Interpretation
- Auto Save & Print-out

Patient ID & worklist orders

PDF, MFER, XML, JPG, BMP, DICOM

Real time remote operation

PACS / EMR / HIS

BMS plus

Cardio7

Advanced analysis, Report, & Data Management

Text

Vector

Guide

ST-Map / Bar

ST-Map / Dot

Long-term recording

1, 3, 5, 10 min.

pre-aquisition

10 sec' real time print-out

User-friendly UI

7" LCD Touch screen

Preview screen
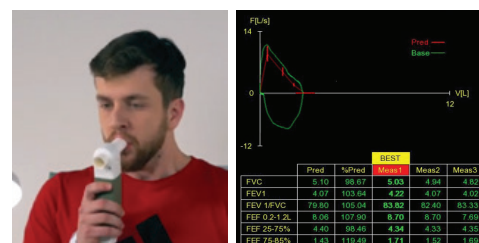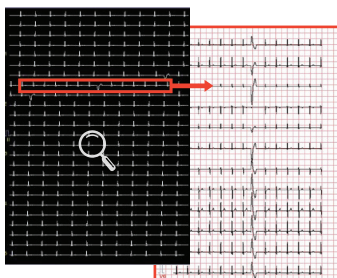
Data preview before print-out

Cardio7

Spirometer test

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	uuj	ryhj	0	20150708	ECG
2	1234		0		ECG
3	234		0		ECG
4	cdee		0	20150512	MVV
5	ddrrg	rdvgy	0	20150512	FVC
6	ed		0	20150512	FVC
7	gjin		0	20150512	ECG
8	ujj		3	20150512	FVC
9	wrtu		0	20150512	FVC
10	1234		0		ECG
11	234		0		ECG
12	cdee		0	20150512	MVV
13	ddrrg	rdvgy	0	20150512	FVC
14	ed		0	20150512	FVC
15	gjin		0	20150512	ECG
16	ujj		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	gqafb	0	20151127	ECG
3	11275510	gqafb	0	20151127	ECG
4	7890	dvvv	32	20151127	FVC

Patient Search

Search Condition | ID
- ID | ID
- Name | Name
- Day | Day
| Age

Find | Close | All

	Pred	%Pred	BEST Meas1	Meas2	Meas3
FVC	5.10	98.67	5.03	4.94	4.82
FEV1	4.07	103.64	4.22	4.07	4.02
FEV 1:FVC	79.80	105.04	83.82	82.40	83.33
FEF 0.2-1.2L	8.06	107.90	8.70	8.70	7.69
FEF 25-75%	4.40	98.46	4.34	4.53	4.35
FEF 75-85%	1.43	119.49	1.71	1.52	1.69

FVC | SVC | MVV

Spirometer
FVC, SVC, MVV, Bronchial Provocation, Post Bronchodilator test

Technical specifications

ECG Leads	Simultaneous 12 Leads Resting ECG
Recording Channel	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)
Gain	2.5, 5, 10, 20, Auto (I~aVF: 10, V1~V6: 5) mm/mV
Printing speed	5, 12.5, 25, 50, 100 mm/sec
Sampling rate	Analysis Sampling Rate - 500 Digital Sampling Rate - 8,000
Filters	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)
Display	800 x 480 pixel resolution, 7" Color TFT wide display 12 channels preview, ID, HR, Gain, Speed, Power status
User Interface	Touch screen, Rotary push-knob
Printer Resolution	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)
Patient data	ID, name, age, gender, height, weight, race, smoke, department, room number, study desc., accession no., referring physician
Basic Measurement	Heart rate(30~300bpm, ±3bpm), PR/RR int., QRS dur., QT/QTc int., P-R-T axis, SV1/RV5/R+S amp.
ECG Data Storage	Internal Storage for 200 ECGs : Built- in memory
Electrical	Internal noise: 20uV(p-p)max Input impedance: $\geq$ 50MΩ Input voltage range: ±5mV CMRR: > 105dB DC offset voltage: $\geq$ ±400mV Patient leakage current: < 10uA Frequency response: 0.05 ~ 200 with in –3dB Isolated , defibrillation and ESU protected
Signal Quality Control	Pacemaker pulse detection, Lead fault detection, Signal Saturation Detection
Line Power	Input: 100-240Vac, 1.5-0.75A, 50-60Hz Output: 15Vdc, 4.2A
Battery type	Replaceable and Rechargeable, Lithium ion, 10.8V, 3250mA
Battery Capacity	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.
Communication	LAN, WIFI(option), USB flash driver, USB barcode scanner
Safety Conformity	Class I, Type CF defibrillation-proof applied part.
Environmental Operation	Ambient Temperature: 10~40℃ Relative Humidity: 30~85%RH Atmospheric Pressure: 70~106KPa
Environmental Storge/Ship	Ambient Temperature: -20~60℃ Relative Humidity: 10~95%RH Atmospheric Pressure: 50~106KPa
Dimensions	300(W) x 290(H) x 89.5(D) mm , Approx. 3.5 kg
Packing dim. & weight	415(W) X 400(H) X 215(D)mm & approx. ≒6kg
Standard Accessory	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)
Options	Rechargeable battery(1 EA), Cart(1 EA), Hanger(1 EA)

* Specifications can be changed without prior notification.

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