Cardio Q70
12CH Resting ECG

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bionet

Bionet Cardio Q70 12-Lead Resting ECG

The Bionet Cardio Q70 is an interpretive 12-Lead Resting Electrocardiogram (ECG / EKG) machine designed to simplify your ECG workflow. Here are the key features and benefits:

The Cardio Q70 offers the wide range of connectivity of HDMI output, 3-USB ports for spirometer (optional) connection, external memory capacity and LAN port for data transmission with HIPAA compliant security measures applied. Smart "AUTO" Workflow- One touch of "AUTO" triggers 5 steps of workflow in 3 seconds:

AUTO -> Acquisition -> Analysis -> Documentation -> Store, Printout, Export (Server or USB)

FEATURES

Diagnosis & interpretation:
Cardio Q70 offers the advanced and various interpretation and diagnosis modes promptly and accurately, supporting the effective workflow for your better clinical decisions.

- 30 min full disclosure with live data comparison mode with single screen display
- Real-time interpretation- Acquire and interpret ECG data in real-time without delay for better informed decisions of arrhythmia with 120 kinds of diagnosis
- Long-term recording up to 30 min- Run up to 30 min ECG acquisition to see HRV trend with one touch command

Advanced spirometry test mode:
The Cardio Q70 supports optional spirometry with combined patient data storage of ECG and spirometry test result, boosting the effective workflow for multiple tests at one site.

The Glasgow ECG algorithm:
- The Glasgow ECG interpretation algorithm provides reliable and accurate diagnosis that accounts for age, gender, and race. Principally featured in:
- AHA/ACCF/HRS recommendations
- Helping in QTc measurements facilitating assessment of cardiac risk
- Highly effective in STEMI interpretation (ST segment Elevation Myocardial Infarction)
- Meets all requirements of IEC 60601-2-25

Bionet's HIPAA compliant measures:
- All data encrypted and protected for cyber security
- Different ID, PW, roles and authentication management per user
- Auto Standby and Shutdown mode ready
- Hide patient name and hospital information
- Event log

Warranty:
1-Year Manufacturer's Warranty

Operator in mind design

Cardio Q70 is designed for optimized workflow for maximizing the effective procedures and accuracy with an alphanumeric keyboard as well as information security measurement applied.
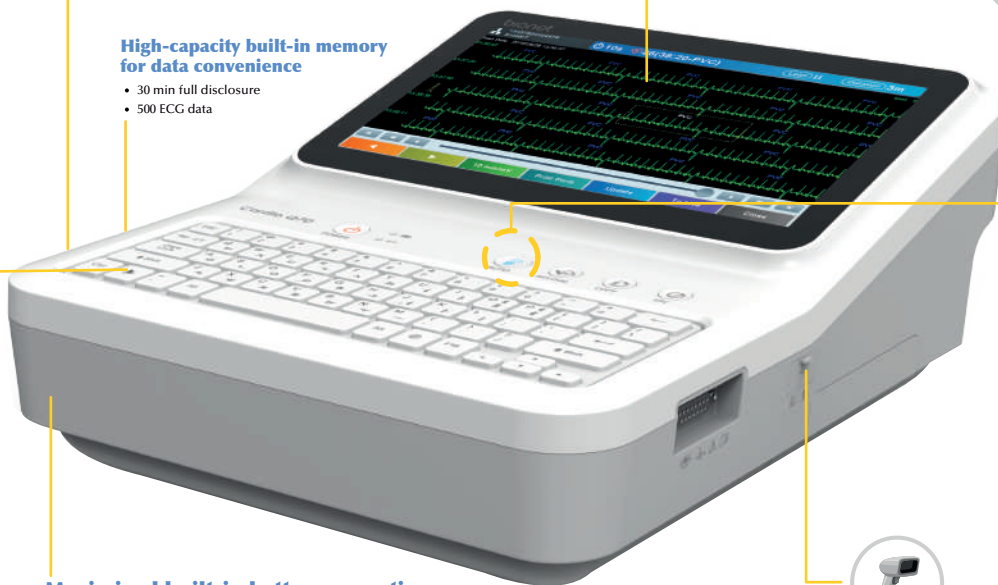
Go paperless
- Optional thermal printer
- Optimized design for paperless & cost-effective printer option with A4/Letter sized report format

High-capacity built-in memory for data convenience
- 30 min full disclosure
- 500 ECG data

10.1" wide capacitive touchscreen 1,024 X 600
Color wide display with clear contrast resolution

Optimized AUTO button

AUTO
AUTO button offers "Simple Workflow" from acquisition to documentation in 3 sec

Barcode scanner
Easy patient registration

Maximized built-in battery operation
- Rechargeable Li-ion battery supports
- 10 hrs / 350 ECG data printout capability*

Keyboard & Key skin
- Full alphanumeric keyboard with silicon key skin for minimizing the cross contamination

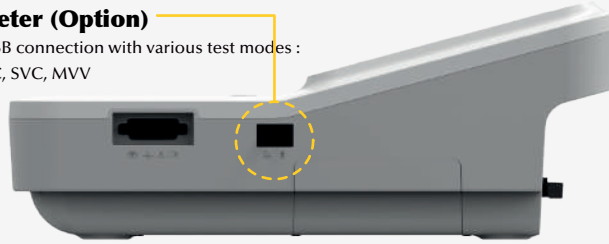* Battery hour can be varied by temperature & humidity environment.

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More connectivity, more values

Cardio Q70 offers the wide range of connectivity of HDMI output, 3-USB ports for spirometer connection, **external memory capacity and LAN port for data transmission with HIPAA compliant security measures applied.**

Spirometer (Option)
External USB connection with various test modes :
COPD, FVC, SVC, MVV

• **Save user profiles & settings**
  Save & retrieve to other devices
• **External USB data storage in**
  PDF, XML, MFER, BMP, JPG, DICOM

LAN / Wireless LAN Connectivity with HIPAA Compliant transmission

HDMI output for a larger Screen
Make a use of convenient large screen display

Smart "AUTO" workflow

One touch of "AUTO" triggers 5 steps of workflow in **3** seconds.

AUTO ➡ Acquisition ➡ Analysis ➡ Documentation
  ✔ Store
  ✔ Printout
  ✔ Export (Server or USB)

ECG Line-up with new design

ECG Cart

Cardio Q50   Cardio P1 PC ECG

Cardio Q with printer

Cardio Q without printer

SPECIFICATIONS

Product Specifications	Value
ECG Leads	Simultaneous 12 Leads Resting ECG
Recording Channel	3CH+3RHY, 3CH+1RHY, 6CH+1RHY, 12CH, 1CH Long Time(1min, 3min, 5min,10min) and Special Beat Report (Text, Guide, Vector)
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 – 500Hz Digital Sampling Rate -8,000Hz
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)
Patient data	ID, Name, Birthday, Age, Gender, Height, Weight, Race, Smoke, Department, Room no., Study desc., Accession No., Referring Physician
Basic Measurement	Heart rate(30~300bpm ±3), PR/RR int., QRS dur., QT/QTc int., P-R-T axis, SV1/RV5/R+S amp.
Signal Quality Control	Pacemaker pulse detection Lead fault detection, Signal Saturation detection
Data Storage	Internal Storage for 500 data : Built- in memory
Display	10.1" Color TFT wide display (1024 x 600), 12 channels preview ECG wave
User Interface	Touch screen(Alphanumeric and symbol available)
Printer Resolution	Thermal print head, Z-fold paper Report paper 　A4 : 210mm(8.3") x 290mm(11.4") 　Letter : 215mm(8.5") x 280mm(11") Paper size 　A4 : 210mm x 145mm 　Letter : 215mm x 140mm Resolution 　Vertical : 8dot/mm 　Horizontal : 16dot/mm (0.125mm pitch)
Electrical	Internal noise: 20uV(p-p)max Input impedance: ≥ 50MΩ Input voltage range: ±5mV CMRR: > 105dB DC offset voltage: ≥ ±400mV Patient leakage current: < 10uA Frequency response: 0.05 ~ 150 with in –3dB Isolated , defibrillation and ESU protected

Line Power	Power supply : AC or built-in battery(option) Input : 100 ~ 240 VAC, 50/60Hz, 1.5~0.75A Output : 15VDC, 4.2A
Battery type	Replaceable and rechargeable Lithium Ion, 10.8V, 6500mA
Battery Capacity	10 hours of normal use or print 350 ECG(12 channel format at 25mm/s and 10mm/mV) or Spiro pages Battery recharge to full capacity in 3hours.
Communication	LAN, WIFI(option), USB flash driver, USB barcode scanner
Safety Conformity	Class I, Type CF applied parts: ECG electrodes Type B applied parts : Spirometer handle
Environmental Operation	Ambient Temperature: 10 to 40 C Relative Humidity: 30 to 85% Atmospheric Pressure: 70 to 106KPa
Environmental Storge/Ship	Ambient Temperature: -10 to 60°C Relative Humidity: 20 to 95% Atmospheric Pressure: 50 to 106KPa
Dimensions	300(W) x 299(H) x 123(D) mm (monitor tilt down) 300(W) x 299(H) x 237(D) mm (monitor tilt up) Approx.4kg(Main Body)
Standard Accessory	Patient cable (1EA), Limbs electrodes (1SET), Chest electrodes(1SET), ECG chart paper(1EA), Disposable mouthpiece (2 EA), Nose clip (1 EA), Handle dock (1EA), AC Power cord (1EA), Operation manual & ECG diagnosis guide (1EA)
Options	Rechargeable battery(1 EA), PFT Filter (100 EA), Disposable mouthpiece 1 box (100 EA), Calibration Syringe[3L] (1 EA), Cart(1 EA), Hanger(1 EA)

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