

# Signal processing specification:

ECG interpretation	Biocare CardioPro ECG analysis program for adults and
	pediatrics
Acquisition mode	Simultaneous standard 12-lead in pre-acquisition or
Acquisition mode	post-acquisition
A/D conversion	24 bit
Sampling rate	8,000 samples/second/channel
Frequency response	0.05 Hz∼250 Hz
Common mode	>105dB
rejection ratio	710000
Polarization Voltage	±550mV
Input circuit	Floating circuit input
Input impedance	$\gg$ 50 M $\Omega$
Input CIR current	≤0.1 μA
Patient leakage	210 ··· A
current	<10 μΑ
Time constant	≥3.2 s
Noise level	$<15 \mu V_{p-p}$
Sensitivity threshold	≤20 μV <sub>p-p</sub>
Calibration voltage	1 mV±5 %
Consitiuites	Eight levels as ( 1.25, 2.5, 5, 10, 20, 10/5, 20/10)
Sensitivity	mm/mV, Auto Gain
	EMG filter: 25/35/75/100/150/250Hz
Filter Setting	Baseline wander filter: 0.01/0.02/0.05/0.35/0.5/0.8Hz
	Dascinic wander inter. 0.01/0.02/0.03/0.33/0.3/0.8HZ
AC filter	50Hz, 60Hz
Heart rate range	30~300 bpm
Special acquisition	Lead-off detection, lead overflow, AC interference,
functions	baseline wander interference, EMG interference

Acquisition time	10~24 seconds
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# Display and keyboard specifications:

Display type	8.9 inch TFT LCD with touch screen
Display resolution	1280×768
Display data	Waveforms, heart rate, lead connection, clock, record
	mode, filters, sensitivity, paper speed, patient ID,name,
	gender, age, system prompt, alarming messages, battery,
	power indicator, SD card label
Waveform display	1) Same screen display:
mode	3*4, 3*4+1R, 6*2, 6*2+1R, 12*1
	2) Split-screen display:
	3*4, 6*2
Keyboard type	Waterproof material, integrated full alphanumeric
	keyboard with quick-access function keys

# Recorder specifications:

Recorder technology	Thermal dot matrix word printing system
Recorder resolution	8 points/mm (perpendicular)
	40 points/mm (horizontal, 25 mm/s)
Recorder speed	$(5, 6.25, 10, 12.5, 25, 50) \text{ mm/s} \pm 5\%$
Recording paper	Z- fold paper:
	210 mm×150 mm×140 p

# **Standard software specifications:**

Measurement and	Supports measurement and interpretation with Biocare
interpretation	CardioPro ECG analysis program for adults and
•	pediatrics
Measurement values	HR, PR interval, QRS duration, QT/QTC interval,
	P/QRS/T axis, RV5/SV1 voltage, RV5+SV1 voltage
Minnesota code	With newest Minnesota code
Working mode	Automatic mode, Manual mode, Rhythm mode, Trigger
	mode, Economic mode, Cycle mode, Upload mode
DEMO mode	Normal ECG, Arrhythmia ECG
QTC formula	Bazett, Fridercia, Framingham, Hodges
Rhythm analysis	Single rhythm mode: 30-300 seconds
	Three rhythms mode: 30-100 seconds for each lead
Auto-trigger mode	Auto-trigger printing when arrhythmia is detected
	during the examination
Extended printing in	Supports extended arrhythmia waveform printing in
arrhythmia	automatic mode
Waveform frozen	Supports 300 seconds of waveform frozen
Pacemaker detection	Weak, Normal, Enhance
Report auto-saved	Selectable auto-saved file
Interpretation printout	Selectable interpretation printing
Report preview	Preview the report before printing
Data format	JPEG, XML, DICOM, PDF, ECG
Alarming system	Voice and visual alarming for: Lead off, No paper, Low
	battery
Patient information	Record No., Name, Gender, D.O.B, Height, Weight, BP,
setting	Race, Pacemaker, Medication, Accession No.,
	Ref-physician, Technician, Physician, Room No.,

	User-define
Language	Chinese, English, Russian, Spanish, French, Italian,
	Polish, Czech, German, Portuguese, Ukrainian, Turkish
Local memory	Mana dan 2000 Clar
capacity	More than 3000 files

# Report specifications:

Report type	Manual report, Simple report, Detail report, MVB
	report(Median beat report)
Record format	3*4, 3*4+1R, 3*4+3R;
	6*2, 6*2+1R, 6*2+3R;
	12*1, 12*1+1R

#### External peripheral use:

Patient cable socket	Connect to the patient cable
SD card port	8 GB SD card for data transfer
Two USB ports	Support USB flash disk and barcode scanner
LAN port	Communication with ECG-1000 workstation software
	on PC
VGA port	Connect to external monitor

# Power supply

Power supply	AC/DC
AC/DC power supply	100 V~240 V, 50 Hz /60 Hz, 110 VA

Battery power supply	Rechargeable lithium battery, 14.8 V, 4400 mAh
Battery capacity	Support more than 3.0 hours for continuous operation
Battery charge time	Approximately 4 hours for total charge

#### **Standard accessories**

ECG data acquisition	ECG data acquisition box with lead wire for 12-CH
box with lead wire	ECG,Φ4mm banana plug, defi, IEC
Chest Electrode	Adult chest electrode,Φ4mm,6pcs/set
Limb Electrode	Adult limb electrode, Φ4mm, 4pcs/set, no LOGO,
Limb Electrode	light blue color
Power adapter	65 W 19V/3.43A
Power cord	L=1500mm, 3PIN, European standard
Grounding Cable	L=4m UL1015 14AWG
Battery	HYLB-1596,14.8V,4400mAh
Thermal Recording	7 fold 210mm*150mm*140m no LOCO
Paper	Z-fold,210mm*150mm*140p, no LOGO
SD card	8GB

#### **Dimensions and weight**

$Length \times width \times height$	345 mm×260 mm×128.5mm
Net Weight	About 3.4 kg

#### **Environment requirements**

1	Transportation	
	Environment temperature	-20°C~+55 °C
	Relative humidity	≤95% (No condensation)

	Air pressure	70 kPa~106 kPa
	nts stipulated in the contract order, the	
	transport process to prevent rain a	nd sun.
2	2 Storage	
	Environment temperature	-20°C~+55°C
	Relative humidity:	≤95%(No condensation)
	Air pressure	70 kPa~106 kPa
	The packaging of ECG stored in the	he non-corrosive gases and
	well-ventilated room.	
3 Using		
	Environment temperature	+5°C~+40 °C
	Relative humidity:	≤95%(No condensation)
	Air pressure	86 kPa~106 kPa

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  the contents are subject to amend without notification.



Shenzhen Biocare Bio-Medical Equipment Co., Ltd.

Headquarters #A735,7/F, Blosk A, Shenzhen Mingyou Industrial Products Exhibition&Procurement Center, Baoyuan Road, Xixiang Sub-district, Bao'an District, 518102 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Factory: 2/F West, 4th Block, Dayang Road South, Fuyong Sub-district, Bao'an District, 518103 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Tol: +86-755-27960888 Fax: +86-755-27960643

E-mail: sales@biocare.com.cn / support@biocare.com.cn