

Specifications

# Signal processing specification:

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ECG interpretation	Biocare CardioPro ECG analysis program for adults and	
	pediatrics	
Acquisition mode	Simultaneous standard 12-lead acquisition	
A/D conversion	24 bit	
Sampling rate	8,000 samples/s	
Frequency response	0.05 Hz ~ 250 Hz	
Signal measurement range	$-5mV \sim +5mV$	
Common mode rejection ratio	>115dB	
Polarization voltage	± 500 mV	
Input circuit	Floating circuit input	
Input impedance	$\geq$ 50 M $\Omega$	
Input CIR current	≤0.1 μA	
Patient leakage	-40 4	
current	<10 μA	
Time constant	≥3.2 s	
Noise level	$\leq$ 12.5 $\mu$ V <sub>p-p</sub>	
Sensitivity threshold	≤20 μV	
Calibration voltage	1 mV±3 %	
Sensitivity	(0.625, 1.25, 2.5, 5, 10, 20, 40, 10/5, 20/10) mm/mV,	
Sensitivity	Auto Gain	
Filter setting	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	
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		

# Display and keyboard specifications:

Display type	5 inch TFT LCD	
Display resolution	800×480	
Display data	Waveforms, heart rate, clock, printing mode, filters,	
	sensitivity, paper speed, system prompt, alarming	
	messages, battery, power indicator, tone level	
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, 3*4+1R	
Keyboard type	Silicon 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) mm/s±5 %	
Recording paper	80 mm, roll paper	

# 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 amplitude, RV5+SV1	

	amplitude	
Minnesota code	With newest Minnesota code	
Working mode	Automatic mode, Manual mode, Rhythm mode, Upload	
	mode	
DEMO mode	Normal ECG, Arrhythmia ECG	
QTC formula	Bazett, Fridercia, Framingham, Hodges	
Rhythm analysis	Single rhythm mode: 30-300 seconds	
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	ECG, DICOM, XML, JPEG, PDF	
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, Spanish, Portuguese, Russian, Polish,	
	German, Czech, French, Italian, Ukrainian, Turkish	
Local memory capacity	More than 3000 files	

## Report specifications:

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

## External peripheral use:

Patient cable socket	Connect to the patient cable	
Two USB port	Support USB flash disk and barcode scanner	
LAN port	Communication with ECG-1000 workstation software	
	on PC	

### **Power supply**

Power supply	AC / DC	
AC power supply	100 V~240 V, 50 Hz /60 Hz, 80 VA	
Battery power supply	Rechargeable lithium battery, 11.1V, 2600mAh	
Battery capacity	Supports about 3 hours for continuous operation, no less than 350 pcs 3 channels ECG exams and reports recording	
Battery charge time	Approximately 4 hours for total charge	

## Dimensions and weight

Length × width × height	281 mm×191 mm×59 mm
Weight:	About 1.3 kg

#### Standard accessories

ECG Cable	10 lead wires,TPU, banana plug, defi, IEC	
Chest Electrode	Adult chest electrode, Φ4mm, 6pcs/set	
Limb Electrode	Adult limb electrode, Φ4mm, 4pcs/set, no	

LOGO, light blue color		
Thermal Recording Paper Roll paper,80mmx20m,no LOGO		
Paper roller ABS fire-proof UL94V-0		
Power Cord	L=1900±100mm H05VV-F/3G*0.75	
	AP24/AC24, black, European standard	
Grounding Cable	L=4mm UL1015 14AWG	
Battery	HYLB-1994,11.1V 2600mAh	

## **Environment requirements**

1	Transportation		
	Environment temperature	-20°C~+55 °C	
	Relative humidity	≤95% (No condensation)	
	Air pressure	70 kPa~106 kPa	
	In accordance with the requirement	nts stipulated in the contract order, the	
	transport process to prevent rain and sun.		
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 non-corrosive gases and		
	well-ventilated room.		
3	Using		
	Environment temperature	+5 °C~+40	
	Relative humidity:	≤95%(No condensation)	
	Air pressure	86 kPa~106 kPa	

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