

 **Biocare**



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# iE 6

## Technical Specifications

## Signal processing specification:

ECG interpretation	Biocare CardioPro ECG analysis program for adults and pediatrics
Acquisition mode	Simultaneous standard 12-lead acquisition
<b>2. 7. A/D conversion</b>	<b>24 bit</b>
Sampling rate	8,000 sample/second/channel
<b>2.5. Frequency response</b>	<b>0.05 Hz~250 Hz</b>
Common mode rejection ratio	>105dB
Polarization voltage	$\pm 550$ mV
Input circuit	Floating circuit input
<b>2. 4. Input impedance</b>	<b><math>\geq 50M\Omega</math></b>
Input CIR current	$\leq 0.1$ $\mu$ A
Patient leakage current	$< 10$ $\mu$ A
Time constant	$\geq 3.2$ s
Noise level	$\leq 15$ $\mu$ V <sub>p-p</sub>
Sensitivity threshold	$\leq 20$ $\mu$ V <sub>p-p</sub>
Calibration voltage	1 mV $\pm 5$ %
<b>3. 3. Sensitivity</b>	<b>(1.25, 2.5, 5, 10, 20, 10/5, 20/10) mm/mV, Auto Gain</b>
<b>2.6. Filter setting</b>	<b>EMG filter: 25/35/75/100/150/250Hz</b> <b>2. 8. Baseline wander filter: 0.01/0.02/0.05/0.35/0.5/0.8Hz</b>
AC filter	50Hz, 60Hz
Heart rate range	30~300 bpm
Special acquisition functions	Lead-off detection, lead overflow, AC interference, baseline wander interference, EMG interference
Acquisition time	10~24 seconds

### Display and keyboard specifications:

10. Display type	8 inch TFT LCD with touch screen
Display resolution	800×600
Display data	Waveforms, heart rate, clock, record mode, filters, sensitivity, paper speed, system prompt, alarming messages, battery, power indicator, tone level
2. 2. Waveform display mode	1) Same screen display: 3*4, 3*4+1R, 6*2, 6*2+1R, 12*1 2) Split-screen display: 3*4, 3*4+1R, 6*2, 6*2+1R
Keyboard type	Silicon full alphanumeric keyboard with shortcut function keys

### Recorder specifications:

3. 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	112 mm×140 mm×160p

### Standard software specifications:

6.1. Measurement and interpretation	Supports measurement and interpretation with Biocare CardioPro ECG analysis program for adults and
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	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
2.9. Working mode	Automatic mode, Manual mode, Rhythm mode, Upload mode, Cycle mode, Trigger mode
DEMO mode	Normal ECG, Arrhythmia ECG
QTc formula	Bazett, Fridericia, Framingham, Hodges
Rhythm analysis	Single rhythm mode: 30-300 seconds Three rhythms mode: 30-100 seconds
Auto-trigger mode	Auto-trigger printing when arrhythmia is detected during the examination
Extended printing in arrhythmia	Supports extended arrhythmia waveform printing in 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
Alarming system	Voice and visual alarming for: Lead off, No paper, Low battery
Patient information setting	Record No., Name, Gender, D.O.B, Height, Weight, BP, 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
5. Local memory capacity	More than 3000 files

### Report specifications:

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

### External peripheral use:

Patient cable socket	Connect to the patient cable
SD card port	8 GB SD card for data transfer
4. Two USB ports	Support USB flash disk and barcode scanner
7. 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
9. Battery power supply	Rechargeable lithium battery, 14.8 V, 2200mAh
Battery capacity	Supports about 3 hours for continuous operation
Battery charge time	Approximately 4 hours for total charge

## Dimensions and weight

Length × width × height	257 mm× 291 mm×106 mm
8. Weight:	About 2.5 kg

## Standard accessories

ECG data acquisition box with lead wire	10 lead wires, TPU,Φ4mm banana plug, 2.3. defi, IEC, no LOGO
Chest Electrode	Adult chest electrode,Φ4mm,6pcs/set
Limb Electrode	Adult limb electrode, Φ4mm, 4pcs/set, no LOGO, light blue color
Thermal Recording Paper	Z-fold, 112mm*140mm*160p, no LOGO
Power adapter	AC Input:100-240 DC OutPut:19V 3.43A 65W
Power Cord	L=1500mm, 3-pin, European standard,
Grounding Cable	L=4m
Battery	HYLB-722 2200mAh/14.8V, 73x70x20mm

## Dimensions and weight

Length × width × height	257 mm×291 mm×106 mm
8. Net Weight:	About 2.5 kg

## 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 requirements 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 °C
	Relative humidity:	≤95%(No condensation)
	Air pressure	86 kPa~106 kPa

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## Techniniai duomenys

2. 7. A/D konversija	24 bit
Duomenų dažnis	8,000 pavyzdys/sekundės/kanalas
2. 5. Dažnio atsakas	0.05 Hz~250 Hz
Bendras režimas atmetimo santykis	>105dB
Poliarizacijos įtampa	±550mV
2. 4. Įvesties varža	≥50 MΩ
Įvesties CIR srovė	≤0.1 μA
Paciento nuotėkio srovė	<10 μA
Laiko konstanta	≥3.2 s
Triukšmo lygis	<15 μVp-p
Jautrumo riba	≤20 μVp-p
Kalibravimo įtampa	1 mV±5%
3. 3. Jautrumas	(1.25, 2.5, 5, 10, 20, 10/5, 20/10) mm/mV, automatinis
2. 6., 2. 7. Filtrų parametrai	EMG filtras: 25/35/75/100/150/250Hz Bazinės eilės filtras: 0.01/0.02/0.05/0.35/0.5/0.8Hz
AC filtras	50Hz, 60Hz
Širdies ritmo intervalas	30~300 bpm
Papildomos funkcijos	Elektrodų aptikimas, elektrodų užliejimas, AC trigdžiai, Bazinės linijos trugdžiai, EMG trigdžiai
10. Ekranas	8.0 colių TFT LCD jutiklinis
Ekranas raiška	800×600
Rodomi duomenys	Bangų formos, širdies susitraukimų dažnis, laikrodis, įrašymo režimas, filtrai, jautrumas, popieriaus greitis, pavojaus pranešimai, baterija, maitinimo indikatorius, garsumo lygiai.
2.2. Bangų atvaizdavimas	1) Taip kaip ekrane: 3*4, 3*4+1R, 6*2, 6*2+1R, 12*1 2) Skaidytas ekranas: 3*4, 3*4+1R, 6*2, 6*2+1R

Klaviatūros tipas	Silikoninė pilnai raidinė ir skaitmeninė su sparčiais funkcijų mygtukais.
9. Rašymas	Terminio taško matricos spausdinimo sistema
Rašymo skiriamoji geba	8 taškai/mm (statmena) 40 taškai/mm (horizontali, 25 mm/s)
Rašymo greitis	( 5, 6.25, 10, 12.5, 25, 50) mm/s ± 5%
Popierius	112 mm×140 mm ×160 p
Matavimo reikšmės	HR, PR intervalas, QRS trukmė, QT/QTc intervalas, P/QRS/T ašis, RV5/SV1 amplitudė, RV5+SV1 amplitudė
Minesotos kodas	Naujausias Minesotos kodas
2.9. Darbo režimai	Automatinis, rankinis, ritmo režimas, įkėlimo, ciklinis, triggerinis.
DEMO režimas	Normali ECG, Aritmijos ECG
QTC Formulė	Bazett, Fridericia, Framingham, Hodges
Ritmo analizė	Vieno ritmo režimas 30-300s, Trijų ritmų režimas: 30-100 s
Automatinio paleidimo režimas	Automatizuotas spausdinimas, kai aptinkama aritmija tiriant
Išplėstinis spausdinimas aritmija	Palaiko išplėstą aritmijos bangos formos spausdinimą automatinis režimas
Bangos sustabdymas	Palaiko 300 sekundžių bangos sulaikymą
Širdies stimulatoriaus nustatymas	Silpnas, Normalus, Padidintas
2.3. Defibriliatoriaus apsauga	Yra
4. Išorinės jungtys	Dvi USB jungtys, LAN jungtis.
Auto išsaugojimas ataskaitos	Pasirenkamas
Interpretacijos spausdinimas	Pasirenkamas
Ataskaitos peržiūra	Peržiūra prieš spausdinimą
Duomenų formatas	ECG, DICOM, XML, JPEG, PDF
Paciento nustatymai	Įrašo nr., vardas, lytis, D.O.B, ūgis, svoris, BP, rasė, širdies stimulatorius, vaistai, gydytojas, technikas, gydytojo kab. nr.,
Kalbos	Kinų, anglų, rusų, ispanų, prancūzų, italų, Lenkų, čekų, vokiečių, portugalų, ukrainiečių, turkų
5. Atminties talpa	> 3000 failų
Ataskaitos tipas	Rankinis pranešimas, paprasta ataskaita, išsami ataskaita, MVB ataskaita (ataskaita apie medianą)
2. 1. Įrašo formatai	3*4, 3*4+1R, 3*4+3R; 6*2, 6*2+1R.
Maitinimo šaltinis	AC/DC
AC	100 V~240 V, 50 Hz /60 Hz, 80 VA
9. Baterija	Kraunama ličio jonų, 14.8 V, 2200 mAh
Baterijos talpa	Palaiko apie 3.0 val. pastovaus darbo
Baterijos krovimo laikas	apytiksliai 4 val.
Ilgis x plotis x aukštis	257 mm×291 mm×106 mm
8. Svoris:	apie 2.5 kg
7. Jungtis su kompiuteriu	LAN



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