QRS-12

DIGITAL TOUCH SCREEN 12-LEAD ELECTROCARDIOGRAPH





QRS-12

Intuitive

Designed for a fast paced work environment, the Infinium QRS-12 ECG System offers an extremely simple and adaptable touch-screen user interface. Patient information along with vital sign settings can be quickly modified to meet the needs of a patient's changing condition. The QRS-12 offers a high resolution 9 inch touch screen and alphanumeric keypad to optimize the speed of patient care. The user can therefore make quick and convenient analysis while having multiple print and data transfer options.

Interpretive

Unlike most ECG systems, the **QRS-12** offers interpretation software as a standard feature. The **QRS-12** provides built-in EKG references databases.

Connective

The **QRS-12** offers several connective solutions to network and manage patient data on an electronic medical records platform or a HL7 information system. The **QRS-12** ECG system offers Ethernet and RS232 connections with an open source communication protocol. Infinium offers 2 levels of networking and connectivity. The **QRS-12** is HL7 and DICOM compliant. The HL7 network protocol will allow for all patient information and vital sign trends to be transferred and stored on a hospital information system. For non-HL7 medical facilities, there is the Infinium ECG manager software which allows the transfer of all stored ECG files and patient data to a remote PC. The patient files can be very simply saved, stored, printed and transferred.







Designed For A Fast Paced Work Environment extremely simple & Adaptable touch-screen user interface.

Infinium **QRS-12**12 Interpretive 12 Lead EKG:

- Smart and portable design
- 9-inch high resolution TFT touch screen with adjustable angle, easy to view
- Waterproof and full alphanumeric keyboard with shortcut keys.
- Broad frequency response 0.05-250Hz for weaker signal recognition and capture, more suitable for pediatrics
- Specific age and gender differential validity in CardioPro analysis program maximizes the accuracy of the ECG interpretation
- Unique ECG acquisition module with 3 independent keys streamlines the whole workflow
- ECG electrode placement diagram for lead connection guide and alarm
- Up to 300 seconds frozen waveforms reviewable and recordable
- Up to 300 seconds R-R analysis in 1 or 3 rhythms for easier in arrhythmia locating
- Cabrera mode available
- Support various file formats: XML, DICOM, JPG and PDF
- Local storage for up to 1500 files
- 3 ways file storage: local memory, SD card, USB flash disk
- ECG management software by LAN or WIFI (optional)









QRS-12 ACCESSORIES

Accessories Include:

12 Lead Cable, Chest Electrodes, Limb Electrodes, Paper roll, Lithium Battery.

Optional Accessories:

ECG manager Software, Mobile Cart, Carry Bag, External Printer, Bar Code Scanner/Magnetic Card Reader



QRS-12 TECHNICAL SPECIFICATIONS:

SIGNAL PROCESSING SPECIFICATION:

ECG interpretation CardioPro ECG analysis program for adults and

Simultaneous standard 12-lead in pre-acquisition or post-Acquisition mode acquisition

A/D conversion 24 bit

8.000 samples/second/channel Sampling rate

Frequency response 0.05 Hz~250 Hz

Common mode

rejection ratio >105dB Polarization Voltage ±550mV

Input circuit Floating circuit input

≥**50** MΩ Input impedance Input CIR current ≤0.1 uA Patient leakage current <10 µA Time constant ≥3.2 s Noise level <15 µVp-p

Sensitivity threshold <20 uVn-n Calibration voltage 1 mV±5 %

> Sensitivity Eight levels as (1.25, 2.5, 5, 10, 20, 10/5, 20/10) mm/mV,

Filter Setting EMG filter: 25/35/75/100/150/250Hz

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, baseline wander interference, EMG interference functions

Acquisition time 10~24 seconds

DISPLAY AND KEYBOARD SPECIFICATIONS:

Display type 8.9 inch TFT LCD with touch screen

Display resolution 1280×768

Waveforms, heart rate, lead connection, clock, record mode, Display data filters, sensitivity, paper speed, patient ID,name, gender, age,

system prompt, alarming messages, battery, power indicator,

SD card label

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, 6*2

Waterproof material, integrated full alphanumeric keyboard Keyboard type

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) mm/s±5% Recording paper Z- fold paper: 210 mm×150 mm×140 p

STANDARD SOFTWARE SPECIFICATIONS:

Supports measurement and interpretation with CardioPro ECG Measurement and interpretation 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 Minnesota code

Working mode Automatic mode, Manual mode, Rhythm mode, Trigger mode,

Economic mode, Cycle mode, Upload mode

Normal ECG, Arrhythmia ECG DEMO mode OTC formula Bazett, Fridercia, Framingham, Hodges

Single rhythm mode: 30-300 seconds Three rhythms mode: 30-100 seconds for each lead

Auto-trigger printing when arrhythmia is detected during Auto-trigger mode

Extended printing in arrhythmia Supports extended arrhythmia waveform printing in

automatic mode

Supports 300 seconds of waveform frozen 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 Record No., Name, Gender, D.O.B, Height, Weight, BP, Race, Patient information setting

Pacemaker, Medication, Accession No., Ref-physician, Technician, Physician, Room No., User-define

English, Russian, Spanish, French, Italian, Polish, Language

Czech, German, Portuguese, Ukrainian, Turkish

Local memory capacity More than 3000 files

REPORT SPECIFICATIONS:

Manual report, Simple report, Detail report, MVB report Report type

(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

> Communication with ECG-1000 workstation software on PC LAN port

VGA port Connect to external monitor

POWER SUPPLY

AC/DC Power supply

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 ECG,

box with lead wire ø÷4mm banana plug, defi, IEC Chest Electrode Adult chest electrode, ø4mm.6pcs/set

Limb Electrode Adult limb electrode, ø4mm, 4pcs/set, no LOGO, light

65 W 19V/3.43A Power adapter

Power cord L=1500mm, 3PIN, European standard

Grounding Cable L=4m UL1015 14AWG HYLB-1596.14.8V.4400mAh Battery

Z-fold,210mm*150mm*140p, no LOGO Thermal Recording Paper

SD card

DIMENSIONS AND WEIGHT

I enath × width × height 345 mm×260 mm×128.5mm

Net Weight About 3.4 kg

ENVIRONMENT REQUIREMENTS

1 TRANSPORTATION Environment temperature -20°C ~ +55°C

<95% (No condensation) Relative humidity 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) 86 kPa~106 kPa Air pressure



Rhythm analysis

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