Cardiac Direct



EKG Machine



Auto Lead Placement Detection 10.1" Touch Screen & On-screen Toolbar with Customizable Hotkeys Waterproof Keys for Effortless Sterilization

File Export Options: PDF, JPG, FDA XML, DICOM ECG Waveform/Worklist, HL7

Leading-Edge Technolgy: ST-view (Intuitive Display of ST-segment)LAN/WIFI

Maximize Your Workflow

The CardioTech GT-450 EKG Machine provides a comprehensive set of cardiac diagnosis tools, delivering cutting-edge technologies to support your clinical decisions. The GT-450 is equipped with an exquisite glass-covered surface which supports easy cleaning and disinfection. Powerful hardware and soft tools ensure excellent performance in each practice.

Features

- 1000 ECG test storage
- Pacemaker detection
- Auto arrhythmia detection
- 12-lead standard resting ECG
- 9-lead resting ECG tailored for neonates
- Vector ECG & timed vector ECG (VCG&TVCG)
- Signal-average ECG (SAECG)
- Heart Rate Variability (HRV)



Exceptional Diagnostic Support

Long-time Sampling

• To assist with pre-treatment diagnosis or post-treatment evaluations, an extended practice session of 1800 seconds can be utilized.

Enhancing ECG Accuracy

 Innovative color visualization for precise lead placement detection.

Auto Arrhythmia Detection

 Segments of arrhythmia traces can be emphasized on display, with automatic saving strips for further analysis.





On-Screen Diagnosis

Designed as an "All-in-One" workstation, the GT-450 allows a complete paperless workflow with all measurements and diagnosis on screen, correctly and coherently. Any waveform segments can be amplified and measured. Any report can be edited and confirmed. Any two reports can be selected and compared.



Workflow enhancement with access to HIS/EMR/PACs through SE-1515 Data Management System

Specifications

PHYSICAL SPECIFICATION

Device Dimension: 400 mm×360 mm×90 mm Weight: 6.5 kg

DISPLAY

Screen Size: 10.1" Resolution: 280×800 multicolor LCDScreen The display can be flipped 25 degrees clockwise.

POWER SUPPLY

Mains Supply: **Operating Voltage** = 100V-240V~ **Operating Frequency** = 50Hz/60HzInput Current = 0.9A ~ 0.4A Internal Lithium Battery: Typical Capacity: 2500 mAh 100% Recharge: 3 hours 90% Recharge: 2.5 hours Typical Capacity: 5000 mAh 100% Recharge: 6 hours 90% Recharge: 5 hours When the battery is fully charged and GT-450 operates at 23°C (±3°C), the performance is as follows.

RECORDING

Recorder: Thermal dot-matrix recorder Printing Density: 8 dots per mm / 200 dots per inch (amplitude axes) 40 dots per mm / 1000 dots per inch (time axes, @ 25 mm/s) **Recorder Paper:** Folded thermal paper: 210 mm×295 mm×100 pages Folded thermal paper: 215 mm×280 mm×100 pages Folded thermal paper: 210 mm×295 mm×200 pages Effective Width: 210 mm Paper Speed: 5 mm/s, 6.25 mm/s, 10 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s (±3%)

HR

HR Range: 30 bpm ~300 bpm Accuracy: ±1 bpm

ECG

Leads:9 or 12 standard leads Acquisition Mode: 9 or 12 leads acquisition simultaneously Analog-to-DigitalConverter: Sampling Frequency: 64,000 /sec/channel A/D: 24 bits Resolution: 0.1192 V/LSB Time Constant: 5s Frequency Response; 0.01~350Hz(-3dB) Gain: 1.25 mm/mV, 2.5 mm/mV, 5 mm/mV, 10 mm/mV, 20 mm/mV, 10/5 mm/mV, AGC (mm/mV), ±5% Input Impedance: 100 M (10Hz) Input Circuit Curren: 0.01 A Input Voltage Range: ±5 mVpp Calibration Voltage: 1 mV±2% DC Offset Voltage: ±900 mV, ±5% Minimum Amplitude: 20 Vp-p (10Hz) Noise: 12.5 Vp-p Multichannel crosstalk: ≤0.5 mm

PACEMAKER DETECTION

Amplitude: ±500 V to ±700mV Width: 30 s to 2.0ms Sampling Frequency: 80,000 /sec/channel, Rhythm Lead

WIFI (OPTION)

Radio Technology: 802.11 a/b/g/n Frequency Range: FČC: 2412 MHz ~ 2462 MHz, 5180 MHz ~ 5825 MHz CE: 2412 MHz ~ 2472 MHz, 5180 MHz ~ 5825 MHz Modulation: DBPSK, DQPSK, CCK, BPSK, QPSK, 16-QAM, 64-QAM Output Power: <20 dBm (CE requirement: detection mode - RMS) <30 dBm (FCC requirement: detection mode - peak power) Transmit rate: IEEE 802.11b: 1 Mbps to 11 Mbps IEEE 802.11g: 6 Mbps to 54 Mbps IEEE 802.11n: 6.5 Mbps to 72.2 Mbps IEEE 802.11a: 6 Mbps to 54 Mbps Bandwidth: 2.4 GHz & 5 GHz 20 MHz

4G (OPTION) Bands:

FDD LTE: Band 1, Band 2, Band 3, Band 4, Band 5, Band 7, Band 8, Band 20, all bands with diversity

WCDMA/HSDPA/H SUPA/HSPA+:Band 1, Band 2, Band 5, Band 8, all bands with diversity

GSM/GPRS/EDGE: 850 MHz/900MHz/1800 MHz/1900 MHz

Rate:

GPRS: UL 85.6 kbit/s; DL 85.6 kbit/s EDGE: UL 236.8 kbit/s; DL 236.8 kbit/s WCDMA CS: UL 64 kbit/s; DL 64 kbit/s WCDMA PS: UL 384 kbit/s; DL 384 kbit/s HSPA+: UL 5.76 Mbit/s; DL 21.6 Mbit/s DC-HSPA+: UL 5.76 Mbit/s; DL 42 Mbit/s LTE FDD: UL 50 Mbit/s; DL 150 Mbit/s@20M BW cat4