



CARDIOTECH GT-450

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 Technology:
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 (optional)
- Vector ECG & timed vector ECG (VCG&TVCG) (optional)
- Signal-average ECG (SAECG) (optional)
- Heart Rate Variability (HRV) (optional)
- Measures QTcF and RR Standard



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

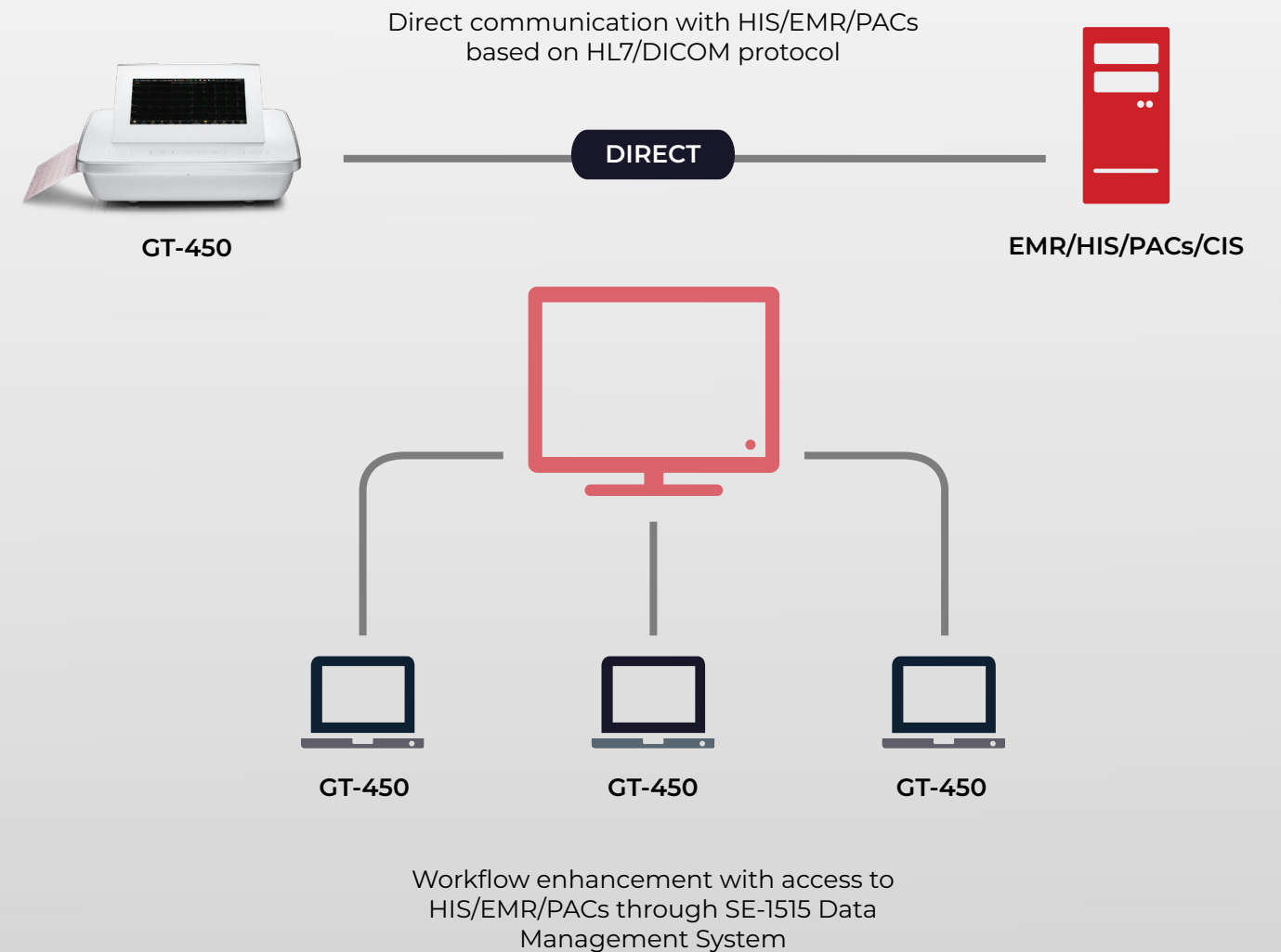
- Segments of arrhythmia traces can be emphasized on display, with automatic saving strips for further analysis.



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.

Streamlined Data Connectivity



Specifications

PHYSICAL SPECIFICATION

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

DISPLAY

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

POWER SUPPLY

Mains Supply:
Operating Voltage
= 100V-240V~
Operating Frequency
= 50Hz/60Hz
Input 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

EKG

Leads: 9 or 12 standard leads
Acquisition Mode:
9 or 12 leads acquisition simultaneously
Analog-to-Digital Converter:
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 Current: 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:
FCC: 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