

# SE-601 B/C

## Electrocardiograph

Version 1.2



## Technical Specifications

### Physical Specifications

#### Dimensions

310mm×322mm×101mm

#### Weight

3.0kg (Excluding recorder paper and battery)

#### Display

5.6 inch, 640×480 multicolor LCD screen. (Touch screen as optional).

### Power Supply

#### Mains Supply

Operating Voltage = 100V-240V~  
Operating Frequency = 50Hz/60Hz  
Input Current = 0.9-0.4A

#### Internal Li-ion Battery Pack

Rated capacity = 2500mAh  
(1.5 hours continuous printing, 300 ECG reports)  
Necessary Charge time: 5 hours

### 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:  
110mm×140mm×150pages

#### Paper Speed:

5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s (±3%)

#### External Printer

HP2010/1050/2000, HPM401/2015/2035,  
HP1106/1020P,  
HP1106/1020P, HP4729/3638,  
HPM202D/1525/M403d, HP3638/4729

### HR Recognition

#### HR Range

30 BPM ~300 BPM

#### Accuracy

±1 BPM

## Technique

Peak-peak detection

## ECG Unit

### Leads:

12 standard leads

### A/D Converter:

24 bits

### Time Constant:

$\geq 3.2$ s

### Sampling Frequency:

16000 Hz

### Input Impedance:

$\geq 100\text{M}\Omega$  (10Hz)

### Input Voltage Range:

$\leq \pm 5$  mVpp

### CMRR:

$\geq 140$ dB (AC on)

$\geq 123$ dB (AC off)

### Acquisition Mode:

simultaneously 12 leads

### Resolution:

2.52uV/LSB

### Frequency Response:

0.01Hz ~ 300Hz (-3dB)

### Gain:

2.5, 5, 10, 20, 10/5 mm/mV, AGC,  $\pm 5\%$

### Input Circuit Current:

$\leq 0.01\mu\text{A}$

### Calibration Voltage:

1mV $\pm 2\%$

## Pacemaker

### Amplitude:

$\pm 750\mu\text{V}$  to  $\pm 700$  mV

### Width:

50 $\mu\text{s}$  to 2.0 ms

## Filter

### AC Filter:

50/60Hz

### DFT Filter:

0.01Hz/0.05Hz/0.15Hz/0.25Hz/0.32Hz/0.5Hz/0.67Hz

### EMG Filter:

Off/25Hz/35Hz/45Hz

### LOWPASS Filter:

300Hz/270Hz/150Hz/100Hz/75Hz

## Data Transmission

### Report Format:

DAT, PDF, SCP, FDA-XML, DICOM

### Data Transmission:

Wi-Fi, Ethernet, RS232

### Data Management System:

SE-1515 Data Management System, bi-directional communication

### HIS connection

DICOM Worklist/DICOM Storage/HL7/GDT

### Data Storage:

800 ECGs

## Wi-Fi (Optional)

**Transmitting Frequency:**

2400-2497MHz

**Modulation Type:**

DSSS, CCK, OFDM

**Effective Radiated Power:**

6 - 17dBm

**Frequency Band:**

2400-2497MHz

**Transmitting Power:**

6 - 17dBm

**Safety Specifications****Comply with:**

IEC 60601-1:2005/A1:2012

EN 60601-1:2006/A1:2013

IEC 60601-1-2:2014

EN 60601-1-2:2015

IEC/EN 60601-2-25

**Patient Auxiliary Current**NC <10 $\mu$ A (AC) / <10 $\mu$ A (DC)SFC <50 $\mu$ A (AC) / <50 $\mu$ A (DC)**Anti-electric-shock type:**

Class I with internal power supply

**Patient Leakage Current:**NC <10 $\mu$ A (AC) / <10 $\mu$ A (DC)SFC <50 $\mu$ A (AC) / <50 $\mu$ A (DC)**Anti-electric-shock degree:**

CF type with defibrillation-proof

**Environment Specifications****Temperature:**Transport & Storage: -20°C (-4°F) ~  
+55°C (+131°F)

Working: +5°C (+41°F) ~ +40°C (+104°F)

**Atmospheric Pressure:**

Transport &amp; Storage: 70kPa ~106kPa

Working: 86kPa ~106kPa

**Relative Humidity:**

Transport &amp; Storage: 25%~93% Non-Condensing

Working: 25%~80% Non-Condensing