SE-301

Electrocardiograph

Version 1.2

Technical Specifications

Physical Specifications

Dimensions

224 mm×143 mm×54 mm

Weight

< 1kg (Excluding recorder paper and battery)

Display

5 inch, 800×480 multicolor LCD touch screen

Power Supply

Mains Supply
Operating Voltage = 100V-240V~
Operating Frequency = 50Hz/60Hz
Power adapter output voltage: 19V, 2A

Recording

Recorder:

Thermal dot-matrix recorder

Recorder Paper:

Folded thermal paper, 80mm×70mm×200pages Rolled thermal paper, 80mm×20m

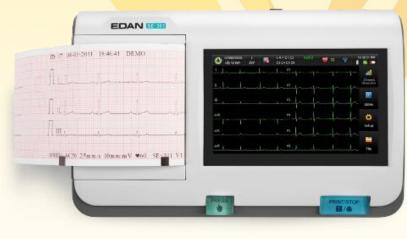
External Printer:

HP 1010/1510/2010/1050/2000, HP M401/2015/2035/1525, HP 1020/1020PLUS/1106, or HP 1505

HR Recognition

HR Range 30 BPM ~300 BPM Accuracy

±1 BPM



Printing Density:

Internal Li-ion Battery Pack

Necessary Charge time≤3.5 hours

(5 hours continuous printing, 500 ECG reports)

Rated voltage = 14.8V Rated capacity=2500mAh

8 dots per mm / 200 dots per inch (amplitude axes)
40 dots per mm / 1000 dots per inch (time axes, @ 25 mm/s)
Paper Speed:
5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s (±3%)



Features and specifications are subject to change without prior notice. No reproduction, copy or transmission may be made without written permission. Not all products or features are available in all countries, contact Edan for local availability.

ECG Unit

Leads:	Acquisition Mode:
12 standard leads	simultaneously 12 leads
A/D Converter:	Resolution:
24 bits	0.1575 µV/LSB
Time Constant:	Frequency Response:
≥3.2s	0.01Hz ~ 300Hz (-3dB)
Sampling Frequency:	Gain:
16000 Hz	2.5, 5, 10, 20, 10/5, AGC (mm/mV)
Input Impedance:	Input Circuit Current:
≥50MΩ (10Hz)	≤0.01µA
Input Voltage Range:	Calibration Voltage:
≤±5 mVpp	1mV±3%
CMRR:	
≥140dB (AC: On)	
De la sur a la sur	

Pacemaker

Amplitude: ±2 to ±700 mV

Width: 0.1ms ~ 2.0ms

Sample Frequency

16,000/sec/channel

Filter

 AC Filter:
 DFT Filter:

 On/Off (50/60Hz)
 0.01Hz, 0.05Hz, 0.32Hz, or 0.67Hz

 EMG Filter:
 LOWPASS Filter:

 Off/25Hz/35Hz/45Hz
 300Hz / 270Hz / 150Hz / 100Hz / 75Hz

Data Transmission

Report Format:

DAT, PDF, SCP, FDA-XML, DICOM

Data Management System:

SE-1515 Data Management System, bidirectional communication

Data Storage:

800 ECGs

Data Transmission:

Wi-Fi, Ethernet, RS232, 4G Network HIS connection DICOM Worklist/DICOM Storage/HL7

Wi-Fi

Transmitting Frequency: 2.4GHz

Frequency Band: 2.400-2.500GHz (2.4 GHz ISM band)



Modulation Type: OFDM with BPSK, QPSK, 16-QAM, and 64-QAM 802.11b with CCK and DSSS

4G (Optional)

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/HSUPA/HSPA+: Band 1, Band 2, Band 5, Band 8, all bands with diversity GSM/GPRS/EDGE: 850 MHz/900MHz/1800 MHz/1900MHz

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 <10μA (AC) / <10μA (DC) SFC <50μA (AC) / <50μA (DC)

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 & Storage: 70kPa ~106kPa Working: 86kPa ~106kPa

Transmitting Power:

17 dBm for 802.11b DSSS
 17 dBm for 802.11b CCK
 15 dBm for 802.11g/n OFDM

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

Anti-electric-shock type:

Class I with internal power supply **Patient Leakage Current:** NC <10µA (AC) / <10µA (DC) SFC <50µA (AC) / <50µA (DC)

Anti-electric-shock degree:

CF type with defibrillation-proof

Relative Humidity:

Transport & Storage: 15%~95% Non-Condensing Working: 15%~95% Non-Condensing