SIMUL-G
Multipara Monitor

PC-ECG machine with Interpretation

Key Features

✓ Measurements of all 12 leads with Interpretation

✓ PC based ECG Machine with DSP Technology

✓ Full Frequency Response 0.05 to 150 Hz

✓ Simultaneous Acquisition

✓ ECG conversion possible into Image format

✓ Upgradation for telemedicine

✓ Simultaneous acquisition of 12 Leads.

✓ Display of running traces of 12 leads split into group of 6 each.

✓ Facility to send ECG data to Remote care server for expert opinion

Technical Specifications

Dimension and Weight

Dimension (L x B x H)	:	105 X 65 X 40 mm
Weight	:	150gm

Environmental

Operating Temp	:	–5 °C to +50 °C
Operating & Storage	:	0 to 95 % non-condensing Humidity

Acquisition

Frequency response	:	0.05 Hz to 150 Hz with notch at 50Hz
Filter	:	DSP, Muscle tremor filter 20, 30 or 100hzs
Input impedance	:	10 M
Time constant	:	> 3.2 sec
A/D conversion	:	12 bit
Noise	:	< 20 Vp-p
Leakage current	:	< 10 A
Patient isolation	:	Optical isolation
Sensitivity	:	5, 10 & 20 mm/mV selectable
CMRR	:	> 120 dB
Sweep speed	:	12, 25, and 50, 100 mm /S adjustable
Accuracy of HR	:	+/- 2 BPM
Sampling Frequency	:	250 samples per second simultaneous, from ADC 1000 sample/second
Model	:	Model available with blue tooth facility
Storage	:	Multiple test storage facility
Leads-Off detection	:	Yes
Printout	:	Manual print with grid On/Off facility, print Color reports on A4 paper

- ✓ Simultaneous body level acquisition of 12 Leads
- ✓ Display of running traces of 12 leads split into group of 6 each
- ✓ Frequency Response – DSP filter of 0.05 to 100Hz with notch at 50Hz
- ✓ Leads-Off detection
- ✓ Facility to store 12 lead Unaveraged ECG
- ✓ Facility to Rerun test
- ✓ Automatic measurement with detection of P+ start, P+ end, P- end, Q start, R Start, R end, S end, r' end, s' end, T Start, T End, U start, U end points on the median once

Power supply

Input	:	USB powered
Power consumption	:	< 3 Watt

Performance

Display	:	1024 x 768 pixels,
Display area	:	320 mm x 240 mm

Display

- ✓ Display of 4 seconds of ECG traces of 12 leads
- ✓ with standardization pulse and corresponding
- ✓ medians next to each lead
- ✓ Display HR
- ✓ Display long lead, QRS detection Lead, BP and gain
- ✓ Leads-Off detection with a message indicating the lead during the test
- ✓ Selectable lead colors

Acquisition settings

- ✓ Relearn the median template
- ✓ Gain: 0.5, 1.0, 2.0 mV/cm
- ✓ Facility to change long lead,QRS detection lead and amplify QRS lead

Minimum PC configuration

Operating system & CPU	:	Win7 / Windows XP / Windows 2000 P4, 2 Ghz, 40 Gb HDD 256 MB RAM, USB port for Simul-G unit connection 15" Color monitor Resolution 1024 X 768
Printer	:	HP Laser Jet 6L Gold/ Pro HP Laser Jet 1000, HP Laser Jet 1010
Stabilizer	:	1 KVA
CD ROM	:	LG. Samsung Sony, ASUS
(Recommended) Type	:	Speed 52X
Earthing connection	:	Independent

Review display modes

- ✓ Review data of selected patient
- ✓ 12 medians screen: 12 medians are displayed with ST-level
- ✓ Resting ECG display: 2.5 sec all leads with medians and 10 sec of long lead

Technical Specifications

Zoom Median

Display the amplitude in volts of all fiducial points
Displays following ECG interpretation

Rhythm statements	:	Sinus Rhythm / Junctional or NonSinus Rhythm suspected / Sinus Bradycardia / Sinus Tachycardia
PR interval statements	:	PR is normal / PR is long / PR is short
QRS interval statements	:	Normal QRS Width / Wide QRS
QT interval statements	:	Normal QT interval / QT Interval is prolonged / QT Interval - Little clinical significance
QRS Axis statements	:	QRS Axis is normal / Right axis deviation /Left axis deviation / QRS Axis is indeterminate
ST abnormalities statements	:	Normal ST level / ST Elevation / ST Depression
T wave inversion	:	Lead names of leads showing T wave inversion
ECG	:	Normal ECG / ECG not normal / Otherwise normal ECG

- ✓ Display the amplitude in volts of all fiducial points
- ✓ Displays following ECG interpretation
- ✓ ST level and ST slope
- ✓ Display intervals of PQ,PR,QRS,QTC in ms and axes in degree of P,QRS and T
- ✓ Display amplitude in volts of P, Q, R, S, r', s', T,U and QRS waves
- ✓ Display RR interval and HR
- ✓ Facility to change P+ start, P+ end, P – end, Q start, R Start, R end, S end, r' end, s' end, T Start, T End,U start, U end points
- ✓ Facility to enter comments to print on ECG reports
- ✓ Facility to send ECG data to Remote care server for expert opinion

Settings

- ✓ Hospital details
- ✓ Referring Doctor list
- ✓ Standard comment

Review settings

- ✓ Grid/Graph/No grid option on all review screens
- ✓ Facility to edit HR and BP of any stage
- ✓ Facility to edit Patient Details
- ✓ Create the bitmap (GIF) of the selected report/s and save at selected location
- ✓ Facility to backup patient data and review saved data
- ✓ Facility to Edit interpretation
- ✓ Facility select / deselect printing of interpretation

Reports

- ✓ Resting ECG report
- ✓ 12 leads(All leads) measurement report with interpretation
- ✓ 5 seconds ECG report

Click Here For Technical Specification

*Due to our continuous product development program, the specifications may change without prior notice.