صاایران

هر روز بهتر از دیروز

Healthcare

SADRA A15



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SAIRAN

Medical Equipments

Technical Specifications

General

Display	Color TFT 1024x600 ,10.1”
Weight	<3.5 Kg
Safety Standards	IEC 60601-1, IEC 80601-2-49
Power Requirements	13.8 VDC, 2.2A, 30W
Frequency	50/60 Hz
Operating Temperature	0 to 40 ºC
Storage Temperature	-20 to 60 ºC
Relative Humidity	15 to 95%
Storage Humidity	10 to 95%
Atmospheric Pressure	700hpa to 1060hpa

ECG

Number of ECG Channels	10 Channels
Available Leads	I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
Measuring Range	30-300 BPM
QRS Detection	Adult Mode: 70 -120 ms, 0.25 - 5 mV Neonate Mode: 40 - 120 ms, 0.2 - 5 mV
Accuracy	2bpm or 2% max
CMRR	At Least 115 db at 50 Hz
Defib. Protection	Yes
Leakage Current	<10 uA
Pace Detection	Amplitude ±2 to ±700 mV, Width 0.1 to 2 ms (Without Over/Undershoot)
Cable	10 wire Standard Cable
Standard	IEC 60601-2-27, AAMI EC11, IEC 60601-2-25
Input Impedance	>10 MΩ at 10 Hz
sweep Speed	12.5, 25, 50 mm/s
Frequency Response	0.67-25 Hz (Surgery Mode), 0.67-40 Hz (Monitor Mode) 0.05-100 Hz (Extended Mode), 0.05-150 Hz (Diagnose Mode)
Gain	1.25, 2, 5, 10, 20 mm/mv
Defibrillation Protection	Yes

Pulse Oximetry (SpO_2) (Optional)

Display Parameters	Saturation, Pulse Rate and Curve
SpO_2 Range	1-100%
Pulse Rate Range	20-300 bpm
Saturation Accuracy	± 3% at 70%-100 % (Unspecified at 1%-70%)
Pulse Rate Accuracy	± 3 bpm
Measuring Method	Absorption Spectrophotometry
Modes	Adult and Neonate Mode
Low perfusion	Improved Performance with Low
Measurement	Perfusion Patients
Standard	ISO 80601-2-61

Respiration

Sensing Lead	I
Measuring Method	Impedance Pneumography
Displayed Parameters	Respiration Rate and Curve
Breath Rate Range	15-120 Brpm
Dynamic Range	0.5-3 Ω
Accuracy	2 Brpm or 4% max

NIBP (Optional)

Displayed Parameters	Systolic, Mean and Diastolic Pressure HR on Measuring Time
Measuring Range	20-280mmHg (Adult/Pediatric Mode) 5-155mmHg (Neonate Mode)
Accuracy	Maximum Mean Error ±5 mmHg with maximum 8 mmHg SD
Memory	Up to 100 Records
Standard	IEC 80601-2-30

IBP (Optional)

Number of Channels	2
Displayed Parameters	Systolic, Mean and Diastolic Pressure (Number and Curve)
Linear Input Range	-30 to +300 mmHg After Zeroing
Accuracy	±2mmHg or 2% Without Transducer
Zero Accuracy	±1mmHg
Pressure Sensor Sensitivity	5uV/V/mmHg
Standard	IEC 60601-2-34

Temperature (Optional)

Number of Channels	2
Displayed Parameter	Temperature
Measuring Range	10 to 50 ºC
Accuracy	±0.1 (25-45 ºC), ±0.2 ºC (Otherwise), Exclusive Probe Error
Resolution	0.1 ºC
Probe Type	YSI -400 Compatible
Standard	ISO 80601-2-56

CO_2 (Optional)

Transducer Type	SAIRAN Air Way Main Stream
Displayed Parameters	AWRR, Waveform Data and Inspired/ Expired Concentrations of CO2
Measuring Range	EtCO2: 2-20 % FiCO2: 0-20 %
Sampling Frequency	40 HZ
Respiration Rate	0 - 120 bpm
Respiration Accuracy	±2 bpm
Warm-up Time	< 15 Seconds
Total System Response Time	< 1 Seconds
Typical Rise Time (@ 16 l/min)	< 250 ms
Calibration	No Routine User Calibration Required
Storage Temperature	-20 - 60 °C, -4 – 140 °F
Operating Temperature	10 - 35 °C, 50 – 95 °F
Operating Humidity	10- 93 % RH at 30°C, Non-Condensing
Atmosphere Pressure	64 - 100 kPa
Supply Voltage	5V ± 0.2 V
Supply Current	400 mA
Dimensions	55 × 38.5 × 26.5 mm
Total Weight	90 ± 5 gr
Standard	ISO 80601-2-55

Recorder

Model	IOI Thermal Printer
Printing Speed	25mm/sec

GPS/GPRS

Frequency Band	1.5GHz
Power	<400 mVA
Update Rate	1 Hz
GPRS Band	GSM900/GSM1800/2100

PCG

Number of Channels	1
Displayed Parameters	Phonocardiogram, Heart's Voice
Record	Recordable Graph

Examination Camera

Resolution	1.3~5 MPixel
Zoom	OPTICAL
Output	USB
Video Frame Rate	30 fps

Others

Audio and Video Call Between Clients and Server
Sending Data to Server Online or Offline
Using LAN or Wi-Fi to Send Data