صاایران

هر روز بهتر از دیروز

Healthcare

AFRA A10



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SAIRAN

Medical Equipments

هر روز بهتر از دیروز

Technical Specifications

General

Display	Color TFT 1200x800 ,10.1”
Weight	<3.5 Kg
Safety Standards	IEC 60601-1, IEC 80601-2-49
Power Requirements	15 VDC, 4A, 60W
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 Measurement	Improved Performance with Low 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	5uV/V/mmHg
Sensitivity	IEC 60601-2-34
Standard	

Temperature (Optional)

Number of Channels	2
Displayed Parameter	Temperature
Measuring Range	10 to 50º C
Accuracy	±0.1ºC (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

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

Three Functional Mode (Bed-side Monitor, Ambulatory Mode, Homecare Mode)
Audio and Video Call Between Clients or Client-server
Using LAN or Wi-Fi to Send Data
Capability to Connect the Sonography Probe Wirelessly and Send Images to PACS Server
Using BLE to Connect to Different Types of Accessories
Capability to Connect to EHR for Sending and Receiving Patient Data
Capability to Connect to Insurance Systems
Capability to Set an Appointment with Doctor