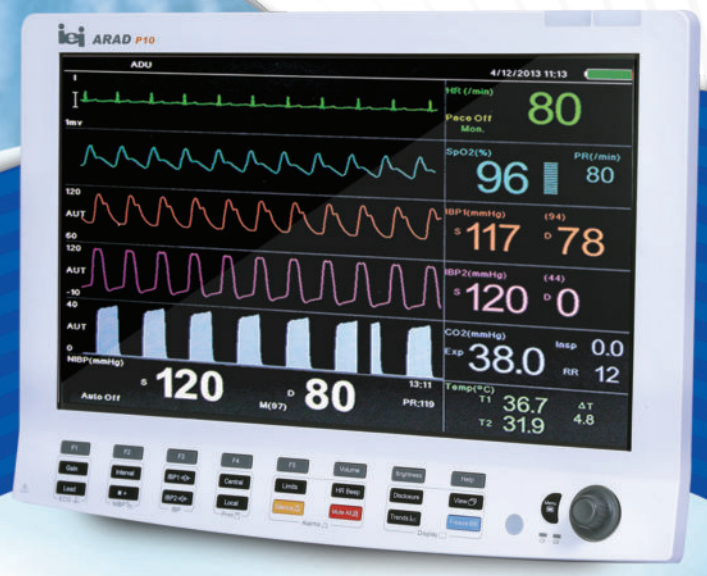
صاایران

هر روز بهتر از دیروز

Patient Monitor

ARAD P10





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SAIRAN

Medical Equipments

هر روز بهتر از دیروز

Technical Specifications

General

Equipment Class	Class I or II (Depend on External Power Adaptor Class), Internally Powered, IPX1, Continuous Operation
Display	High Contrast Color TFT Flat Panel
Display Size	19" Diagonal
Display Resolution	1366×768
Viewing Angle	A 80°
Sweep Speed	12.5, 25, 50 mm/s User Selectable for ECG 25 mm/s for SpO_2 and IBP 12.5 mm/s for Respiration
Aspect Ratio	1.6 S/mv max
Dimensions	303×460×67 mm
Weight	5.4 Kg (Including Battery)
Safety Standards	IEC 60601-1, EN 60601-2-49
EMC Standard	IEC 60601-1-2
Power Specification	External Adaptor Input: 110-240 VAC, 0.29-0.16 A, 47-63Hz Output:12 VDC, 3A Frequency: 50/60 Hz
Operating Temperature	0 to 40 °C
Storage Temperature	-30 to 60 °C
Relative Humidity	25 to 95%
Storage Humidity	10 to 95%
Atmospheric Pressure	700hpa to 1060hpa

ECG

Number of ECG Channels	4 Channels
Available Leads	I, I, III, aVR, aVL, aVF, V (5 wire) I, II, III (3 Wire)
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 98 db at 50 Hz or 60Hz
Defib. Protection	Yes
Leakage Current	<10 uA
Patient Isolation	>4000 VAC
Pace Detect & Reject	Amplitude 2 -700 mV, Width 0.1-2 ms
Filter Modes	Monitor: 0.5 - 40 Hz Extended: 0.05 - 100 Hz Surgery: 0.5 - 25 Hz
Cable	3-lead and 5-Lead Standard Cables
Standard	EN60601-2-27, ANSI/AAMI EC13

Pulse Oximetry

Displayed Parameters	Saturation, Pulse Rate and Curve
Measuring Method	Absorption Spectrophotometry
SpO_2 Range	1-100%
Pulse Rate Range	20-250 BPM
Saturation Accuracy	At 70 - 100%: 3% At 1 - 70%: Unspecified
PR Accuracy	At 20 bpm to 250 bpm: ± 3 bpm
Modes	Adult, Pediatric and Neonate Mode Improved Performance with Low Perfusion Patients
Standard	EN ISO 9919

Respiration

Sensing Lead	I or II
Measuring Method	Impedance Pneumography
Displayed Parameters	Respiration Rate and Curve
Breath Rate Range	5-150 BPM
Dynamic Range	0.5 - 2 Ω
Accuracy	2BrPM or 5% Max

Respiration

Sensing Lead	I or II
Measuring Method	Impedance Pneumography
Displayed Parameters	Respiration Rate and Curve
Breath Rate Range	5-150 BPM
Dynamic Range	0.5 - 2 Ω
Accuracy	2BrPM or 5% Max

NIBP

Displayed Parameters	Systolic, Mean and Diastolic Pressure HR on Measuring Time
Measuring Range	20-280 mmHg (Adult/Pediatric Mode) 5-140 mmHg (Neonate Mode)
Accuracy	±3mmHg or ±2% (Whichever Is Greater) Full Range
Memory	Up to 100 Records

IBP (optional)

Number of channels	2 (4 Channels Optional)
Displayed Parameters	Systolic, Mean and Diastolic Pressure (Number and Curve)
Linear Input Range	-30 to +300 mmHg After Zeroing
Accuracy	±2mmHg with Transducer
Zero Accuracy	±1mmHg
Pressure sensor sensitivity	5uV/V/mmHg

Temperature (Optional)

Number of Channels	2
Displayed Parameter	Temperature
Measuring Range	10 to 50 °C
Accuracy	±0.1 °C (10-50 °C), Exclusive of Probe Errors
Inclusive Accuracy	±0.1 °C (32-42 °C), ±0.2 C (otherwise)
Resolution	0.1 °C
Probe Type	YSI-400 Compatible
Standard	EN 12470-4

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

Storage

ECG Signal	96 h of Master Lead
NIBP	Up to 100 Records During 96h
Parameters	96h All Parameters

Recorder (Optional)

Model	IOI Thermal Printer
Printing Speed	25 mm/sec

IOC (Optional)

EEG	±475µV, 16- bit Resolution
Burst Suppression Rate (BSR)	0 - 100%
EMG	0 - 100 Unit Less
Signal Quality Index (SQI)	0 - 100%
Lead Off Detection	15s Interval
Electrode Impedance Measurement	0 - 15 kOhm, (+/- 1kOhm)
Data Logging	Yes
EEG Sampling Frequency	1024 Hz
CMRR	>100 dB
Power Supply	5VDC, 130mA
Index and Display Update	0 -99, 1 s
Total Index Update Delay	10 s