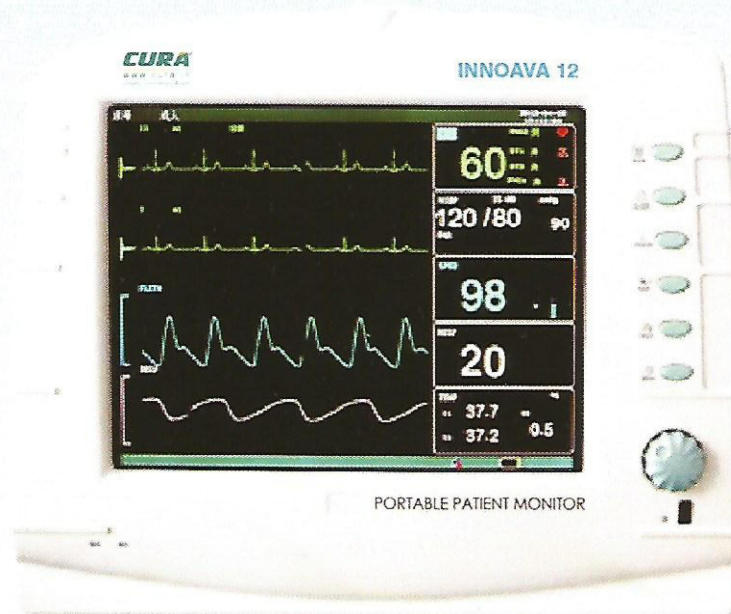


# INNOAVA 12

## Portable Patient Monitor



### Features

- 12.1 " TFT , CRT can be connected simultaneously
- Portable, compact, AC power and internal rechargeable battery
- Anti-high-frequency electrosurgical equipment
- In-built printer (recorder) with 3 channels wave or external printer
- 13 kinds of Arrhythmia analysis, S-T segment and HRV analysis
- 300 seconds ECG waveforms review, 100 items alarm event records
- 72-hour Trend for NIBP, SpO2, HR, ST and 72-hour data records
- Display 9 waveforms most in the screen
- Display 7-lead ECG waveforms in one screen simultaneously
- 3-level audible and visual alarm
- Adjust volume more accurately by digital system
- User Friendly Menu Operations, operating more effectively
- Support Ethernet, wireless LAN and could connect with Central monitoring system
- Multi-language version: English, Spanish, Turkish, German, Polish, etc.
- Dual-IBP, Et-CO2, Built-in thermal recorder (Optional)





# Specifications

## Safety

Meets the requirements of applicable IEC 60601  
Series standards Device Class: Class II b as per MDD 93/42/EEC

## Displayed Parameters

Time	Battery-backed quartz crystal clock
Alarms	High and low limits selectable on patient parameters
ECG	ECG Waveform Scale
Heart Rate	Derived from ECG or SpO2
NIBP	Pressure (systolic, mean and diastolic)
Pulse Oximeter	Pulse Rate, Pulse waveform, and percent saturation.
Respiration	Respiration rate derived from ECG.
Trends	HR, RR, NIBP, ST,TEMP, CO2 and SpO2
Temperatures	Two channels
Trace Freeze	Trace A or B

## ECG

Protection	Protected against defibrillator and electro surgery potentials
Standard Lead:	I, II, III, aVL, aVR, aVF, V
Display Gain	2.5mm/mV, 5mm/mV, 7mm/mV, 10mm/mV, Scales
Scopes	15mm/mV, 20mm/mV, 25mm/mV, 50mm/mV
Sweep Speed	12mm/s, 25mm/s, 50mm/s
Frequency Response	Operation mode, bandwidth: 1 ~ 25 Hz, Monitor mode, bandwidth: 0.5 ~75 Hz, Diagnosis mode, bandwidth: 0.05 ~120 Hz
CMRR	> 89 dB (at 50Hz, 20V)
ECG signal	± 5 mV (Vp-p)
Standard signal	1mV ± 5%
Heart Rate	15 to 300bpm
Resolution	1bpm
Accuracy	<100bpm ±1; >100bpm ±2%
Input Impedance	> 5M Ohm (at 10 Hz, excluding patient cable)
Patient Safety	Input circuit current: <0.1 uA, Leakage Current : < 10 uA
Isolation	4kV; Supply and Patient Connections
Recovery	<5s after 5KV defibrillation
Alarm	Heart rate high and low limits alarm delay<12s

## ST segment

ST segment	-0.8mV to +0.8mV
Accuracy	±0.02mV

## TEMP

Channel2	(T1 and T2)
Units	°C or °F
Range	0~60 °C
Resolution	0.1 °C
Accuracy	+/- 0.1 °C

## RR

Technique	Trans-thoracic impedance (RA-LL, RA-LA)
Range	0-100 rpm
Resolution	1 rpm
Accuracy	± 2 rpm or ± 2%
Apnea alarm	5-90 seconds

## SpO2

SPO2 Range	0 to 100%
Accuracy	80%~100%:±2; 70%~79%:±3; 0~69% Unspecified

Resolution 1%

Pulse Rate Measurement Range 0 to 255bpm

Resolution 1bpm  
Accuracy ±2bpm or ±2%  
Alarm delay <7s

## NIBP

Technique	Oscillometric
Patient Types	Adult and Infant
Cuff Inflation Time	3-15 seconds depending on cuff size
Cuff Inflation Pressure	Adult/Infant, inflation pressures determined by the settings.
Operating Modes	Manual/Auto/Stat, Auto

The Initial Inflation Pressure Adult: 140,150,160,180mmHg; Infant: 70,100,120mmHg

Measurement Interval Time 1-240min  
Step:1min(1-10min),5min(10-30min), 10min(30-90min), 30min(90-240min)

Measurement Range Adult:15 to 255 mmHg  
Infant:15 to 135 mmHg

Pressure Resolution 1mmHg  
Cuff Pressure Accuracy ±3mmHg for 0 to 280mmHg,  
Over pressure Software: 280±10 mmHg (Adult) / 145±5 mmHg (Infant)  
Hardware: 300±10 mmHg (Adult) / 150±10 mmHg (Infant)

Zero transducer Before every measuring

Overtime Protection (Adult/Infant) Stop determinates if the measurement time exceeds 120s/90s

## Et-CO2 (Optional)

Sampling Method	Sidestream sampling system with a 50 ml/minute low sampling rate
Measurement Mode	Sidestream
RR Range	0-150 rpm
EtCO2 Range	0-100 mmHg
Accuracy	0 - 40 mmHg, ± 2 mmHg 41 - 70 mmHg, ± 5% of reading 71 - 100 mmHg, ± 8% of reading * NOTE: Gas temperature at 25° C
Resolution	1 mmHg

## Dual-IBP (Optional)

Range	-6.67kPa(-50mmHg)~46.67kPa (350mmHg)
Accuracy	≤ 13.33kPa (100mmHg) ±0.27kPa (2mmHg), ≥ 13.33kPa (100mmHg) ±2%
Gain Accuracy	0.5%
Bandwidth	0 to 12 Hz
Sensitivity	5uV/V/mmHg
Excitation Voltage	5V (DC)
Isolation Voltage	4 kV

## General Specifications

Dimension	380mmX220mmX330mm
Weight	4.5 Kg
Operating Conditions	Temperature:5°C~40°C Relative Humidity: ≤ 80%, non-condensing Atmospheric pressure: 86kPa~106kPa

The transport and storage conditions Storage Temperature: -20°C~55°C  
Relative Humidity: ≤ 93%, non-condensing  
Atmospheric pressure: 50kPa~106kPa

Power Supply 100~230VAC,50/60Hz, 1.6A max;  
Internal Battery 12V;

Operating Time 2 hours typical at 25°C, No printing,  
(fully charged battery) one NIBP Measurement per 15 min.

**CURA**

www.cura.in

Growth Innovation Reach

## CURA HEALTHCARE PRIVATE LIMITED

PINNACLE BUILDING  
No A-32, Phase-1, MEPZ SEZ,  
Tambaram Kadapperi, Chennai – 600 045, India  
Ph: 91 44 6679 2600 Fax: +91 44 4214 5444  
W: www.cura.in E: cura@cura.in

\*All other brand names trade marks in the brochure are properties of their respective holders and are used for reference only.  
\*Specifications subject to change without any prior notice.