



**UNI-EM**

*Redefining Cardiac Care*

**MULTIPARA PATIENT MONITOR**

**Multiscope 3**



### **Features :**

- 12.1 Inch High Resolution LED Display with 8 waveforms.
- Parameters ECG, SPO2, NIBP, RESP. & TEMP.
- ST Segment, arrhythmia analysis, auto detection of lead drop.
- Function of OXY-CRG Analysis.
- Optional parameters : 2IBP
- Inbuilt Printer Optional
- Wave reviews for all parameters.

**Technical specifications:**

Safety : Meets the requirement of IEC60601  
 Dimension : 330mm (W) x 280mm (H) x 150mm (D)  
 Weight : 4.5 kg

**Operation Environment:**

Power : AC 230v  $\pm$  10% , 50 Hz  $\pm$  3%  
 Temperature : 0 – 50 °C  
 Humidity :  $\leq$  80 %

Application Scope  
 Adult, Pediatric and neonatal

**Performance Specifications**

Display : 12.1" Color LED screen  
 Resolution : 800 x 600  
 Trace : 8 waveforms  
 Battery : Rechargeable  
 Trend Time : 1– 24 hours  
 Alarm : 3—level audible and visual alarm

**ECG**

3/5—lead : Selectable  
 Input : 5—Lead: RA, LA, RL, LL, V  
 ECG Waveform : 6 channels  
 Sweep Speed : 12.5mm/s, 25mm/s, 50mm/s  
 Gain Selection : x0.5 ; x1 ; x2 ; x 4, Automatic  
 Heart Rate range : Adult: 15—350bpm  
 Accuracy :  $\pm$  1 bpm  
 Resolution : 1 bpm  
 Protection : Withstand 4000VAC/50Hz Voltage in isolation. Against electrosurgical Interference and defibrillation.  
 CMRR : 85 dB  
 Calibration signal: 1mV  $\pm$  5%  
 Operation Modes : Diagnostic, Monitor, surgery  
 Bandwidth : 0.05— 130 Hz  
 Alarm range : Adult : 0—300 bpm  
 S-T Detection : YES  
 Arrhythmia analysis : YES  
 Pacemaking analysis : YES

**EtCO2 (Optional)**

Initiation time : Capnograph display in less than 20 sec  
 Co2 Measurement Range : 0—150 mmHg  
 unit : mmHg, % Kpa  
 Accuracy :  $\pm$  1 %  
 Apnea alarm : 10 s—40 s (selectable & delayed)  
 Waveform speed : 25/12/6.25 (mm per second)  
 Average : Breath to Breath

**NIBP**

Method : Oscillometric  
 Operation modes : Manual/ Automatic / Stat  
 Measurement unit : mmHg/ Kpa selectable  
 Measurement types : Systolic , Diastolic, Mean  
 Measurement range : 20— 300 mmHg (

Measurement interval : 2,3,5,10,15,30, upto 4 hrs.  
 Over pressure : YES

Protection  
 Resolution : 1mmHg  
 Mean error and standard deviation  
 Accuracy : per ANSI/AAMI SP—10

**Temperature**

Measurement Range : 0—50 °C  
 Resolution : 0.1 °C  
 Accuracy :  $\pm$  0.1 °C (including probe)  
 Temperature : Dual Channel

**Respiration:**

Method : RA, LA Impedance  
 Impedance measurement : 0.3— 3 ohms  
 Range  
 Respiration rate : 0—150 breath/minute  
 Asphyxia alarm : 10-40seconds  
 Accuracy :  $\pm$  2 breaths/minute

**SPO2:**

O2 Saturation Range : 0 to 99  
 Accuracy :  $\pm$  2% between ranges  
 40 to 100%  
 Average Time : 1 to 8 seconds  
 Resolution : 1%  
 Precision : 70 ~ 100%  $\pm$  2 DIGIT  
 0~ 69% : no definition given  
 PR Range : 0—300

**IBP (Optional)**

Actualization Interval : About 1 Sec.  
 Label : ART, PA, CVP, RAP, LAP, ICP, P1/P2  
 ART ; 0 ~ 300 mmHg  
 PA ; - 6 ~ 120 mmHg  
 CVP/RAP/ LAP/ICP ; - 10 ~ 40 mmHg  
 Measuring & Alarm range ; P1/P2 ; -10 ~ 300 mmHg  
 Press Sensor ;  
 Sensitivity ; : 5uV/V/mmHg  
 Impedance ; 300—3000 ohms  
 Resolution ; 1 mmHg  
 Accuracy ;  $\pm$  2 % or  $\pm$  1 mmHg, which Great

Printer : Thermal Array (Optional)  
 Record trace : ECG, SPO2 & NIBP. Time & Date

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**Technical specifications are subject to change without notice..**