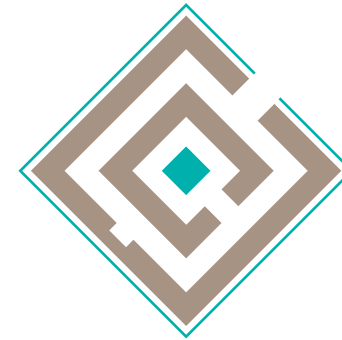




**URUK**

[www.urukmed.com](http://www.urukmed.com)

Uruk Medical Equipment  
Zone 6, Block 16/3,  
Awareej Industrial Area,  
Baghdad, Iraq  
Phone Number: +9647806443322



**URUK**

*Technology that cares...*

[www.urukmed.com](http://www.urukmed.com)



## Index

About Us	4
Ventilator	6
Vital Signs Monitor	8
Central Monitoring System	10
Portable Monitor	12
Electrocardiograph	14
Electrosurgical Unit	16
Defibrillator	18





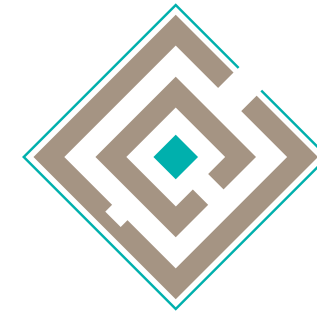
 **URUK**  
www.urukmed.com

*Technology that cares...*



*Technology that cares...*

About Us



Uruk Medical Equipment is a pioneer in the manufacturing of life saving medical equipment in the Arab World. Based in Baghdad, Iraq; Uruk utilizes the latest technology, state of the art manufacturing methods and extensive joint venture and partner network to manufacture and supply the latest in medical equipment and hospital furniture. Uruk is committed to support customers with high quality, affordable prices and fast services in accordance with CE and ISO13485 standards.



# VL100 VENTILATOR

### Features :

- Volume and pressure controlled ventilation
- Invasive and Non-invasive
- Smart user- friendly interface with touch screen color display
- Full range of ventilation features with graphs and numerical values
- Smart alarm system
- 72 hours trend storage
- IBW calculator provides a quick and safe start to ventilation
- Pediatric through adult (20-2000 ml Tidal volume)
- Automatic leak and compliance compensation
- Modern pressure and flow triggering
- Battery backup of up to 1 hour

### Volume and pressure controlled ventilation

VL100 ventilator helps patients to breathe more naturally through a new breath delivery technology. This new ventilator presents volume and pressure controlled ventilation plus spontaneous breathing modes. Moreover, it is equipped with great weaning functionalities.

### Smart user- friendly interface

The high — resolution full- color touch screen display shows comprehensive information including ventilation curves and monitored values. Also screen configuration can be customized to display the most important measurement values.

### Full range of ventilation features

VL100 ventilator possesses some extra advantages: NIV, Apnea, modern pressure and flow triggering. These features allow making the ventilation even more precise and effective.

### 72 hours trend storage

Some mistakes in treatment can be crucial for the patient and the specialist must know all the details of patient history case to prevent the fault. VL100 ventilator offers trending all patient data available for 3 days.

### IBW calculator

Ideal Body Weight start up setting gives the clinician a quick and safe initiation to ventilation.

### Modes of ventilation

- Assisted control mandatory ventilation
- Synchronized intermittent ventilation
- Spontaneous ventilation

### Breath types

- Volume controlled: VCV, V-SIMV
- Pressure controlled: PCV, P-SIMV, PS
- Volume targeted pressure controlled: PRVC-CMV, PRVC-SIMV, VS
- APRV

### Breath triggering :

- Pressure triggering: (-2) — (-20) cmH2O
- Flow triggering: 2 — 20 l/min

### Respiratory settings

- Respiratory rate: 2- 120 b/min
- Tidal volume: 20- 2000 ml
- PEEP/ CPAP: 0- 40 cmH2O
- Pcontrol: 2- 80 cmH2O
- Psupport: 0- 60 cmH2O
- I-Time (Ti): 0.2- 5.0 Sec
- Pause (Inspiratory plateau): 0-75% of Ti
- Flow Pat. : square, Dec.
- Phigh : 5-40 cm H2O
- Plow: 0-37 cm H2O
- Thigh: 0.2-29.8 Sec
- Tlow: 0.2-2.0 Sec
- Auto Tlow: off or 10-80%
- Oxygen (FiO2): 21- 100%
- Rise time: Fast, Med, Slow
- Exhalation sensitivity: 10- 80 % of peak flow

### Respiratory monitored parameters

- PEEP
- I:E
  - Ppeak
  - Ti/ Ttot
  - Pmean
  - Cstat
  - PendInsp
  - Cdyn
  - Vte
  - R insp
  - Vti
  - Rexp
  - MV
  - Auto PEEP
  - MVspont
  - Pplateau
  - Leak
  - RSBI
  - pF
  - O2%
  - PFe
  - WOB
  - Rate
  - P0.1
  - Rate Sp.
  - NIF
  - Inspiration time (Ti)
  - P0.1/NIF
  - Expiration time (Te)
  - RCE
  - HiL

### Real Time Curves

- Pressure over time, Flow over time, Volume over time
- Pressure- Volume loop, Flow- Volume loop

### Additional features

- Maneuvers: P0.1, NIF, Insp. Hold, Exp.Hold, Suction Support
- Apnea backup ventilation (PS, VS and APRV)
- IBW calculator
- NIV On/ Off (PS and P-SIMV)
- Automatic leak compensation
- Automatic compliance compensation
- Active exhalation Valve
- Dual control in the breath (VCV and V-SIMV)
- Auto Tlow in APRV

### User initiated functions

- Manual breath
- Nebulizer
- 100% Oxygen
- Alarm silence
- Humidification selection: HME, Humidifier, None

### User configurable interface

- Multiple easy view tabs: (Main, Settings, Monitoring, Alarms, Configuration)
- Graphic display: 2 loops and 3 curves

### Prioritized alarms (High, Medium, Low)

- Auto- Set alarm feature
- 2000 Events log

### Physical data

- Battery backup (with fully charged batteries): up to 60 minutes
- Screen: LCD 12.1" wide
- Gas supply: 2.4- 6.0 bar clean, dry and oil- free medical grade (also works within 1.0 - 2.4 bar, some degraded performances)
- Width x depth x height: 45x35x29 cm
- Weight: 11 kg





# ◆ LM1810 VITAL SIGNS MONITOR

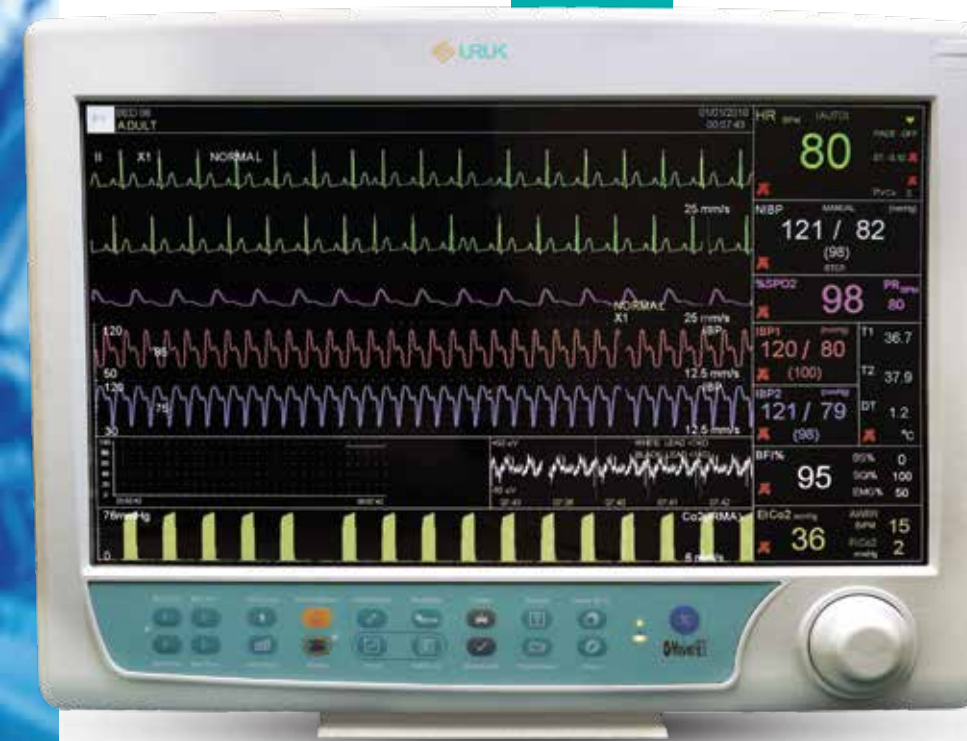
### TECHNICAL INFORMATION :

- 18.5" screen color LED with 1366 X 768 resolution and 170-degree view angle
- ECG/HR/SPO2 (Masimo)/NIBP/RESP/2TEMPs/2IBPs/ Gas & BFA modules
- Capability to display 6 to 8 signal traces (only ECG:12-Leads) and 10 parameters in one page (Six parameters have been added for Rainbow parameters)
- 96-hours trend storage (displaying 6 parameters in one page) and 500 NIBP records
- ALARM RECALL (Displaying occurred alarms along with ECG/SPO2/2IBPs/RESP/GAS waveforms)
- ARR and ST Segment Analyzer software and displaying numbers of PVCs in a minute
- Drug calculation (to calculate the dose and time of medication)
- Rechargeable internal battery and capability to run on AC Power
- Three types of filters to eliminate cauter and environment noise
- Configuring parameters in different pages (Multi-Page)
- Displaying of OXY-CRG signal trace
- ADULT, NEONATE, and PEDIATRIC modes
- Visual and Auditory alarms
- Parameters/Signals color selection (Except for ECG)
- 260 seconds review of ECG signal (Sigma)
- Pace pulse detection and elimination
- Convertibility to the Central system network
- VGA Output

### Optional Features :

- Upgrade SPO2 Masimo to SPO2 Masimo Rainbow in order to measure blood parameters: SpCO, PI, PVI, SpHb, SpMet, SpOc
- Brain Function Assessment module (BFA)
- Upgrade 2IBPs module to 4IBPs
- Recording of 3 waveforms simultaneously using thermal printer
- Touch screen • ECG 12-Leads
- AWRR, Multi Gas Analyzer, EtcO2 measurement
- ICP measurement • Cardiac Output measurement
- Controlling system by rotary knob and touch screen simultaneously

Specific page for open-heart surgery (Pump Page) Advanced design of internal circuits without fan PI (Perfusion Index) measurement through SPO2 Probe Quick Startup Anti-shock and anti-scratch screen Displaying of 7 ECG Leads simultaneously 18 shortcut keys







# CS110

## CENTRAL MONITORING SYSTEM

### TECHNICAL INFORMATION

- Optional one or two color screens with 1920 x 1080(FULL HD) resolution
- Integrated hardware system (all in one)
- Touch screen and capability to use mouse
- Displaying the magnified patient information on a separate monitor (Bed View)
- Quick startup
- Simultaneous connection to 32 beds
- Connection to PACS server to create and display DICOM file
- Connection to HIS server to send data
- Sending NIBP measurement command to the bedside monitor
- Backing up data of each bed (Disclosure, Trend, NIBP List, Alarm List) and saving the data in the flash memory
- Inputting data via keyboard and barcode scanner
- Equipped with thermal recorder
- Display the patient's DICOM files on a separate monitor (DICOM Web Viewer)
- Parameter data storage (TREND) for 96-hours in chart and table format and capability to store on Data Server permanently
- Storage and displaying 720 alarms including ECG display at the time of alarm for each patient (Alarm Recall)
- Capability to store graphic data waveforms (Disclosure) for 48-hours and store on data server permanently
- Storage and displaying of 1000 NIBP measurements for each patient
- Optional displaying of ECG, SPO2, IBP1, IBP2, CO2, RESP signals
- Optional displaying of parameters
- Visual and Auditory alarm

### Optional Features

- Laser printer instead of thermal recorder
- Usage of more pages
- Ability of connecting to second monitor (Dual Screen – 32 Beds view)





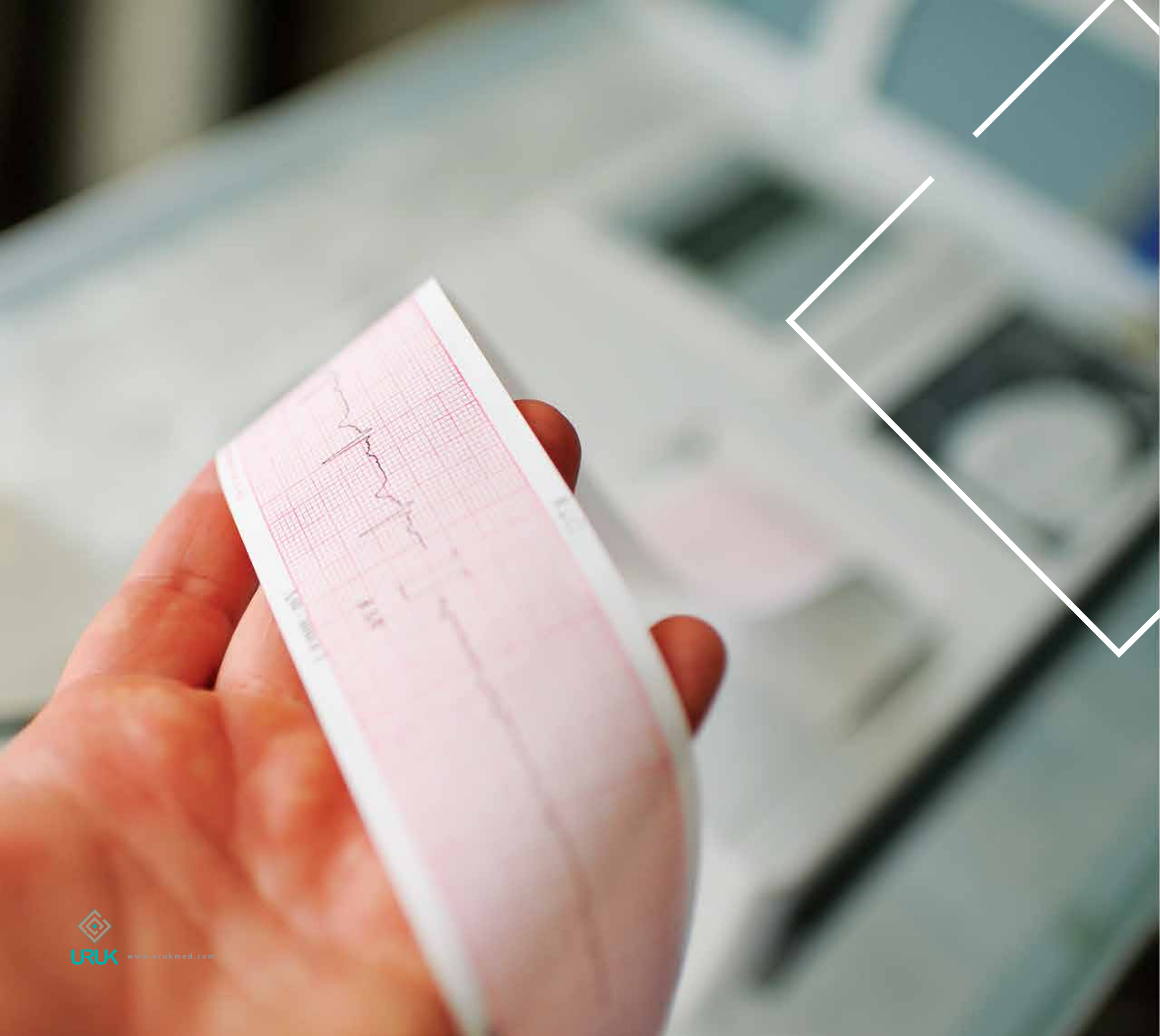
# ◆ PM4010

## PORTABLE MONITOR



- 5" screen touch color LCD with 480 X 272 resolution and 170-degree view angle
- ECG/HR/SPO2(Masimo)/NIBP/RESP/1TEMPs/2IBPs modules
- Capability to display 3 to 5 signal traces (only ECG:7-Leads) and 6 parameters in one page (Six parameters have been added for Rainbow parameters)
- 96-hours trend storage and 100 NIBP records
- Configuring parameters in different pages (Multi-Page)
- Rechargeable internal battery in the monitor, F1 and F1R stations and capability to run on AC Power
- ADULT,NEONATE, and PEDIATRIC modes
- Visual and Auditory alarms
- Three types of filters to eliminate cauter and environment noise
- 35 seconds review of ECG signal (Sigma)
- Pace pulse detection and elimination
- Battery function of 12 hours through F1 and F1R stations
- Compact and light-weight (<800g) design
- Advanced design of internal circuits without fan
- PI (Perfusion Index) measurement through SPO2 Probe Quick Startup
- Displaying of 7 ECG Leads simultaneously
- 4 shortcut keys
- Touch screen
- Optional Features:
  - > Upgrade SPO2 Masimo to SP02 Masimo Rainbow in order to measure blood parameters: SpCO, PI, PVI, SpHb, SpMet, SpOc
  - Recording of 2 waveforms simultaneously using thermal printer
  - ICP measurement
  - AWRR and Etco2 measurement
  - SF-Box for transferring data to slave monitor and connection to remote controller, etc
  - Connectivity to the Central System Via Wi-fi (Wireless)
  - Connectivity to the Central System Via SF-Box (Wired)





# ◆ EM650

## ELECTROCARDIOGRAPH

### 6 Channels

#### TECHNICAL INFORMATION

- 6-channel ECG and adjustable for 2,3 and 4 channels
- Simultaneous displaying of 12 leads ECG waveform
- User friendly
- Color display and 5" touch screen
- Ability to record up to 6 channels simultaneously with the paper size of 110mm
- Data storage of 100 records and capability to copy of the last stored data (Save & Copy)
- Rechargeable lithium battery with 8 hours of operation and more than 150 record
- Filter types: EMG (reject muscular noise), Drift (reduce signal oscillations), HUM (50/60 Hz), Low Pass filter(25, 35, 75 Hz)
- Upgradeable software
- Comply with IEC 60601-2-25
- 16-key keyboard
- Protected against electroshock
- Displaying Rhythm-lead waveform on the screen
- Lightweight and compact design
- Different modes of recording (Manual/ Auto/ Rhythm)





## VESSEL SEALING SYSTEM

### ADVANTAGES OF VESSEL SEALING SYSTEM AT A GLANCE:

- Ability of reliable sealing of large vessels, up to 7 mm in diameter
- Seals created in this system can withstand pressure more than 3 times normal systolic pressure
- Pulsed output in vessel sealing system reduces thermal spread and tissue sticking
- Less tissue damage and reduced sticking and charring
- Reduction in surgery duration
- No foreign materials:
- This technology uses the body's own collagen to seal the vessels. All traditional sealing methods involve leaving foreign material inside the patient body that may cause some complications (e.g. interference with future diagnosis)
- High-Burst-Strength
- Reduced needle stick injuries

### FEATURES:

- Argon Plasma Coagulation (Continuous Output) (Optional)
- Argon Plasma Coagulation (Pulsed Output) (Optional)
- Argon Cut (Optional)
- Vessel Sealing (Seal 1) - Permanent sealing up to 7mm
- Vessel Sealing (Seal 2) - Permanent sealing up to 7mm
- Bipolar Cut
- Bipolar Coagulation (Auto-Start Bipolar & Manual Bipolar)
- Monopolar Cut (Pure)
- Monopolar Cut (Blend1)
- Monopolar Cut (Blend2)
- Monopolar Cut (Blend3)
- Monopolar Coagulation (Swift)
- Monopolar Coagulation (Forced)
- Monopolar Coagulation (Spray)
- Monopolar Coagulation (Soft)
- TUR Mode
- Automatic Self Checking (Spotting the system's internal problems)
- Permanent HF Leakage current monitoring
- Auto Stop Mode for Optimum tissue Coagulation (Preventing tissue Carbonization)
- Utilizing a microprocessor system to control the current in vessel sealing, based on measuring the impedance of the tissue
- Permits two surgeons to coagulate at the same time independently in Spray Mode
- Possibility of connecting both Monopolar & Bipolar foot switches independently
- 75 Programmable memory locations

Main Voltage: 220Vac  $\pm$  10%, 50Hz or 110Vac  $\pm$  10%, 50-60Hz  
Maximum Power Consumption: 800V.A  
Protection Class: Class I  
Type of Output: CF  
Weight: 8 kg  
Dimensions (W.H.D): 40 x 17 x 44 cm

### ALL IN ONE ESU + VESSEL SEALING SYSTEM

HF Electrosurgical Units equipped with Vessel Sealing System are designed as state-of-the-art products to meet the needs of modern surgery. The variety of available operating modes enables versatile applications for Open surgery and MIS (Minimally Invasive Surgery) including Gastroenterology, Transplantation, ENT, Urology, Bronchoscopy, Orthopedic, Cardiac Surgery, Plastic Surgery, Colon-proctology, Oncology and other Laparoscopic surgeries.



 **IC200s**  
**ELECTROSURGERY**



# ◆ DE 100 DEFIBRILLATOR

## TECHNICAL INFORMATION

- Simple User-interface
- Automated Self-test
- Easy access to electrode pads
- Suitable for both adults and pediatrics  
adults : 120J to 200J  
pediatrics : 50J to 85J
- Keeping you alert to battery exchange
- non-chargeable (LiMnO<sub>2</sub>) battery pack with a life cycle up to 5 years
- 5/7-inch Touch Screen LCD provides visual prompts and information
- Rectilinear Biphasic waveform which changes with patient's impedance
- Providing guidelines according to CPR guidelines of AHA/ERC
- Accurate ECG Analysis by SAADAT Shock Algorithm
- Resistant to any environment with IP22
- Wi-Fi connectivity
- Store data in Cloud
- USB connectivity







**URUK**  
www.urukmed.com

*Technology that cares...*