Technical Specifications

Safety
ISO 13485:2003 approved
CE marking according to MDD93/42/EEC
Degree of protection against harmful ingress of water: IP X 1

Dimension and Weight

Dimension:	9.8in x 8.66in x 5.24in (249mm x 220mm x 133mm)
Net Weight:	6.3lbs (2.9kg)
Gross Weight:	12lbs (5.5kg)

Operation Environment

Power:	AC100-250V, 50/60Hz
Temperature:	32°F-104°F (5°C-40°C)
Humidity:	15%-93%

Patient Range

Patients:	Neonate, Pediatric, or Adult

Performance Specifications

Display:	8.4inch TFT Color Touch Screen
Resolution:	800 X 600
Trace:	Maximum 8 waveforms display
Indicator:	Power, Battery, Alarm lights and QRS, Operating Key, Alarm sounds
Interface:	Parameter cable interface AC power input socket Network interface USB port
Battery:	Lithium polymer plug & play rechargeable battery (4 hours of continuous working time)
Trend Time:	120 hours
Alarm:	Audible and visual alarms with user-adjustable high and low limits
Networking:	Connects to central monitoring system (LAN or Wireless)
Recorder (Optional):	Built-in thermal array, 2 channels
Record Mode:	Manual, Upon alarm, Continual, or Time-defined
Record Speed:	25mm/s or 50mm/s
Paper Width:	1.97in (50mm)

ECG

Lead Selection:	3-lead, 5-lead, 12-lead
Gain Selection:	X1/4, X1/2, X1, X2, X4, Auto
Sweep Speed:	6.25mm/s, 12.5mm/s, 25mm/s, or 50mm/s
Filter Bandwidth:	Mon: 0.5-40Hz DIA: 0.05-130Hz OPE: 1-20Hz
HR Range:	Adu: 15-300bpm Ped/Neo: 15-350bpm
HR Resolution:	1bpm
HR Accuracy:	±1% or ±2bpm
HR Alarming Time:	<12s
ST Segment Detection Alarm:	-0.20mV-0.20mV (default)
Arrhythmia Analysis:	Yes
Alarm:	User-adjustable high, mid, low limit ranges
Anti-Electrical Interference	Line frequency, electro-surgery and defibrillation protection, pacemaker detection

Respiration
Measurement Method: Thoracic impedance

RR Range:	Adu/Ped: 0-120rpm Neo: 0-150rpm
RR Resoultion:	1rpm
RRate Accuracy:	±1rpm
Apnea Alarm:	Yes, 10-40s
Alarm:	User-adjustable high and low limits

Lutech SpO_2

Saturation Range:	1-100%
Saturation Resolution:	1%
Saturation Accuracy:	±2% (70-100%, Adu/Ped) ±3% (70-100%, Neo) Unspecified (0-69%)
PR Range:	20-250bpm
PR Accuracy:	±3bpm (non-motion) ±5bpm (motion)
Alarm:	User-adjustable high, mid, low limit ranges

Nellcor SpO_2 (Optional)

Saturation Accuracy:	±3% (70-100%) Unspecified (0-69%)
PR Range:	20-250bpm
PR Accuracy:	±3bpm

Masimo SpO_2 (Optional)

Saturation Accuracy:	±2% (70-100%, Adu/Ped) ±3% (70-100%, Neo) Unspecified (0-69%)
PR Range:	25-240bpm
PR Accuracy:	±3bpm (non-motion) ±5bpm (motion)

NIBP

Measurement Method:	Automatic oscillometric
Measurement Modes:	Manual, Automatic
Auto Mode Times:	Adjustable 1-480min
Pressure Types:	Systolic, Diastolic, Mean
Pressure Units:	mmHg/kPa selectable
Pressure Range:	
Range for Systolic Pressure:	Adu: 40-270mmHg Ped: 40-200mmHg Neo: 40-135mmHg
Range for Diastolic Pressure:	Adu: 10-215m mHg Ped: 10-150mmHg Neo: 10-100mmHg
Range for Mean Pressure:	Adu: 20-235mmHg Ped: 20-165mmHg Neo: 20-110mmHg
Alarm Type:	Systolic, Diastolic, Mean
Pressure Accuracy:	±5mmHg
PR Range:	40-240bpm
Over-Pressure Protection:	Adu: 300mmHg Ped: 240mmHg Neo: 150mmHg

Temperature

Temp Units:	°C/°F selectable
Temp Range:	32-122°F (0-50°C)
Temp Resolution:	0.1°F (0.1°C)
Temp Accuracy:	±0.3°F (±0.1°C)

IBP (Optional)

Measured Pressures:	P1, P2, ART, PA, CVP, LAP, RAP, ICP
Pressure Units:	mmHg/kPa selectable
Pressure Range:	0-300mmHg
Pressure Accuracy:	±2% (100-300mmHg) ±4% (0-100mmHg)

CO_2 (Optional)
Measurement Method: Non-dispersive infrared (NDIR)

Respironics CO_2

Mainstream (Capnostat 5):	
CO_2 Range:	0-150mmHg (at 760mmHg) 0-19.7% (at 760mmHg)
CO_2 Accuracy:	±2mmHg (0-40mmHg) ±5% of reading (41-70mmHg) ±8% of reading (71-100mmHg) ±10% of reading (101-150mmHg)
RR Range:	0-150rpm
Sidestream (LoFlo):	
CO_2 Range:	0-150mmHg (at 760mmHg) 0-19.7% (at 760mmHg)
CO_2 Accuracy:	±2mmHg (0-40mmHg) ±5% of reading (41-70mmHg) ±8% of reading (71-100mmHg) ±10% of reading (101-150mmHg)
RR Range:	2-150rpm

Phasein CO_2 Mainstream (IRMA) or Sidestream (ISA)

CO_2 Range:	0-15vol%
CO_2 Accuracy:	±2mmHg (0-40mmHg)
RR Range:	0-150rpm

Phasein Anaesthetic Gas (Optional)
Measurement Method: Non-dispersive infrared (NDIR)

Mainstream (IRMA AX+):	
AG Range:	CO_2: 0-10vol% N_2O: 0-100vol% HAL: 0-8vol% ISO: 0-8vol% ENF: 0-8vol% SEV: 0-10vol% DES: 0-22vol%
AG Accuracy:	CO_2: ±0.3vol%+2% of reading N_2O: ±0.2vol%+2% of reading HAL: ±0.15vol%+5% of reading ISO: ±0.15vol%+5% of reading ENF: ±0.15vol%+5% of reading SEV: ±0.15vol%+5% of reading DES: ±0.15vol%+5% of reading
RR Range:	0-150rpm
Sidestream (ISA AX+/OR+):	
AG Range:	CO_2: 0-10vol% N_2O: 0-100vol% HAL: 0-8vol% ISO: 0-8vol% ENF: 0-8vol% SEV: 0-10vol% DES: 0-22vol% O_2: 0-100% (for ISA OR+ only)
AG Accuracy:	CO_2: ±0.2vol%+2% of reading N_2O: ±0.2vol%+2% of reading HAL: ±0.15vol%+5% of reading ISO: ±0.15vol%+5% of reading ENF: ±0.15vol%+5% of reading SEV: ±0.15vol%+5% of reading DES: ±0.15vol%+5% of reading O_2: ±1vol%+2% of reading (for ISA OR+ only)
RR Range:	0-150rpm

Standard Configuration
ECG/HR, Lutech SpO_2, NIBP, Resp., Temp., and Pulse Rate.

Optional Configuration
Nellcor SpO_2, Masimo SpO_2, IBP, Respironics or Phasein CO_2 (Mainstream or Sidestream), Phasein Anaesthetic Gas (Mainstream or Sidestream), Recorder, Central Monitoring System (LAN or Wireless, HL-7), Special parameters for neonate and pediatric patients.

LUTECH INDUSTRIES, INC.

105 Remington Blvd., Suite C, Ronkonkoma, NY 11779 U.S.A.

Ph: 631-676-7432 Fx: 631-619-0723 Website: www.lutechmedical.com E-mail: info@lutechmedical.com

V2.1 - 03/05/2019

Lutech®

Your Partner in Advancing Medical Care

Datalys™ 750

Mobile...Versatile...
Multi-Parameter Patient Monitor.

CE 0434

Datalys™ 750

User-friendly Interface

Multi interface support, including standard display, large-font display, trend coexist display, bed-to-bed view display, and OxyCRG dynamic view display, color of waveform and parameter is changeable.

Super Reliability

The design and production of product strictly comply with the CE standards. The safety, stability and durability of the product are well guaranteed. At least 10 days of aging inspection to maintain product's reliability.

Rich Clinical Information

Excellent software processing techniques, including arrhythmia analysis, pacemaker analysis, OxyCRG, S-T segment analysis, drug close calculation etc.

Power-off Protection

24 hours of full data, alarm recall and trend graphic saving in case of power failure.

Alarm System

3-levels if audible/visual alarm, breath asphyxia alarm and alarm recall function. It can transfer the change of illness accurately and timely

Patient Information System

Powerful information system, including patient information input, multi-language selection, and 96 hours trend graphic storage and review. It can meet the requirements of clinic analysis and data management.

Network System

Bi-directional communications with central monitoring system, both wired and wireless solution support.

- Lightweight and compact, 6.3 lbs
- Li-ion battery provides 4 hours of continous working time

Lutech™

Features

- 8.4" TFT Color Touch Screen
- Specially designed for easy transport in ambulances
- Anti-Shaking, stablized working system
- Car Inverter support
- Built-in Lithium battery allows for up to 4 hours of continuous working time
- ST segment analysis and arrhythmia analysis
- 120 hours of graphical trend and data records
- Multi-optional functions support, can be used in ICU and OR

- Big font Display
- OxyCRG: Display the interactive relationship between heart rate, respiration and oxygen on the same screen, convenient for observing the clinical changes of neonates.
- ST analysis
- Arr. analysis
- Drug-dose calculations.etc

- USB socket: extend memory capacity, convenient for computer data saving and file recording
- Net Port: Maximum 128 Units bedside monitors to connect the central monitoring system, wired or wireless network supportable

Various Mounting Solutions