

# 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: 11.5in x 9.8in x 5.8in  
292mm x 250mm x 147mm  
Net Weight: 8.5lbs (4.0kg)  
Gross Weight: 15.5lbs (7.1kg)

## Operation Environment

Power: AC100-240V, 50/60Hz  
Temperature: 41-104°F (5°C-40°C)  
Humidity: 15%-93%

## Patient Range

Patients: Adult, Pediatric, Neonate

## Performance Specifications

Display: 10.4 inch color TFT touch screen  
Resolution: 800x600  
Trace: maximum 12 waveforms display  
Sweep Speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s

Indicator: Power, Battery, Alarm lights and QRS, Operating Key, Alarm sounds

Interface: Parameter cable interface  
AC power input socket  
Network interface  
External VGA interface  
Nurse call interface  
USB port  
SD card socket

Battery: Lithium polymer plug & play rechargeable battery (4 hours of continuous working time)

Trend Time: 120 hours

Alarm: User-adjustable high and low limits for audible and visual alarm

Networking: Connects to central monitoring system (wired and wireless)

Recorder (Optional): Built-in, thermal array, 2 channels  
Record Mode: Manual, Upon alarm, Continual, Time-defined

Record Speed: 25mm/s, 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 Resolution: 1rpm  
RR Accuracy: ±1rpm

Apnea Alarm: Yes, 10-40s  
Alarm: User-adjustable high and low limits

## Lutech SpO<sub>2</sub>

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<sub>2</sub> (Optional)

Saturation Accuracy: ±2% (70-100%)  
±3% (50-69%)  
PR Range: 20-250bpm  
PR Accuracy: ±3bpm

## Masimo SpO<sub>2</sub> (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 1-720min  
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: 10-215mmHg  
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: ±0.1kPa or ±1mmHg, whichever is greater.

Pulse Rate 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<sub>2</sub> (Optional)

Measurement Method: Non-dispersive infrared (NDIR)

## Respiroics CO<sub>2</sub>

Mainstream (Capnostat 5):  
CO<sub>2</sub> Range: 0-150mmHg (at 760mmHg)  
0-19.7% (at 760mmHg)  
CO<sub>2</sub> Accuracy: ±2mmHg (0-40mmHg)  
±5% of reading (41-70mmHg)  
±8% of reading (71-100mmHg)

RR Range: ±10% of reading (101-150mmHg)  
0-150rpm

Sidestream (LoFlo): 0-150mmHg (at 760mmHg)  
CO<sub>2</sub> Range: ±2mmHg (0-40mmHg)  
±5% of reading (41-70mmHg)  
CO<sub>2</sub> Accuracy: ±8% of reading (71-100mmHg)  
±10% of reading (101-150mmHg)  
RR Range: 2-150rpm

## PhaseIn CO<sub>2</sub> Mainstream (IRMA) or Sidestream (ISA)

CO<sub>2</sub> Range: 0-15vol%  
CO<sub>2</sub> Accuracy: ±2mmHg (0-40mmHg)  
RR Range: 0-150rpm

## PhaseIn Anaesthetic Gas (Optional)

Measurement Method: Non-dispersive infrared (NDIR)  
Mainstream (IRMA AX+):  
AG Range:

CO<sub>2</sub>: 0-10vol%  
N<sub>2</sub>O: 0-100vol%  
HAL: 0-8vol%  
ISO: 0-8vol%  
ENF: 0-8vol%  
SEV: 0-10vol%  
DES: 0-22vol%  
AG Accuracy: CO<sub>2</sub>: ±0.3vol%+2% of reading  
N<sub>2</sub>O: ±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<sub>2</sub>: 0-10vol%  
N<sub>2</sub>O: 0-100vol%  
HAL: 0-8vol%  
ISO: 0-8vol%  
ENF: 0-8vol%  
SEV: 0-10vol%  
DES: 0-22vol%

AG Accuracy: O<sub>2</sub>: 0-100% (for ISA OR+ only)  
CO<sub>2</sub>: ±0.2vol%+2% of reading  
N<sub>2</sub>O: ±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<sub>2</sub>: ±1vol%+2% of reading (for ISA OR+ only)

RR Range: 0-150rpm

## Cardiac Output (Optional)

Measurement Method: Thermodilution  
C.O. Range: 0.1-20L/min  
C.O. Resolution: 0.1L/min  
C.O. Accuracy: ±5% or ±0.1L/min  
Blood Temp (BT) Range: 77-109.4°F (25-43°C)  
Injection Temp (IT) Range: 32-77°F (0-25°C)  
BT/IT Resolution: 0.1°F (0.1°C)  
BT/IT Accuracy: ±0.3°F (0.1°C, no sensor)

## Standard Configuration

ECG/HR, Lutech SpO<sub>2</sub>, NIBP, Resp., Temp., and Pulse Rate.

## Optional Configuration

Nellcor SpO<sub>2</sub>, Masimo SpO<sub>2</sub>, IBP, Respiroics or PhaseIn CO<sub>2</sub> (Mainstream or Sidestream), PhaseIn Anaesthetic Gas (Mainstream or Sidestream), Cardiac Output, Recorder, Central Monitoring System (LAN or Wireless, HL-7).



# Datalys™ 760

## Multiparameter

## Patient Monitor.

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



# Datalys™ 760

## Features

- 10.4" TFT Color Touch Screen
- Operating methods: Trim knob/buttons, and touch screen
- Advanced patient file management system
- High capacity storage allows for power-off data protection
- Inclined screen for easy observation
- Built-in Lithium battery allows for up to 4 hours of continuous working time



- Fixed handle for easy mobility
- 4400mAh Lithium battery allows for 4 hours of continuous working time.

- Aesthetically pleasing new interface design
- USB, VGA, network and multifunctional interface



## Standard Accessories

- 5-lead ECG cable set w/ electrodes (Adu)
- Lutech SpO2 sensor (Adu)
- Stylus pen
- NIBP cuff w/ extension tubing (Adu)
- Skin temperature probe (Adu)
- User manual
- Grounding cable
- Battery
- Power cord

Monitoring you  
can count on!



## Various Mounting Solutions

- Pole Mount
- Wall Mount
- Mobile vertical stand



- IPX1 waterproof design. Great for performance in various environments
- Compliant with CE standards
- Sleek appearance of a professionally designed frame
- I-Klok™ Intelligent alarm management, automatic-identification of alarm level. Self adjust proper alarm time to reduce false alarms.



- ARR analysis, RESP Apnea alarm, OxyCRG
- CMRR≥105 dB, outstanding ECG anti-interference capability

