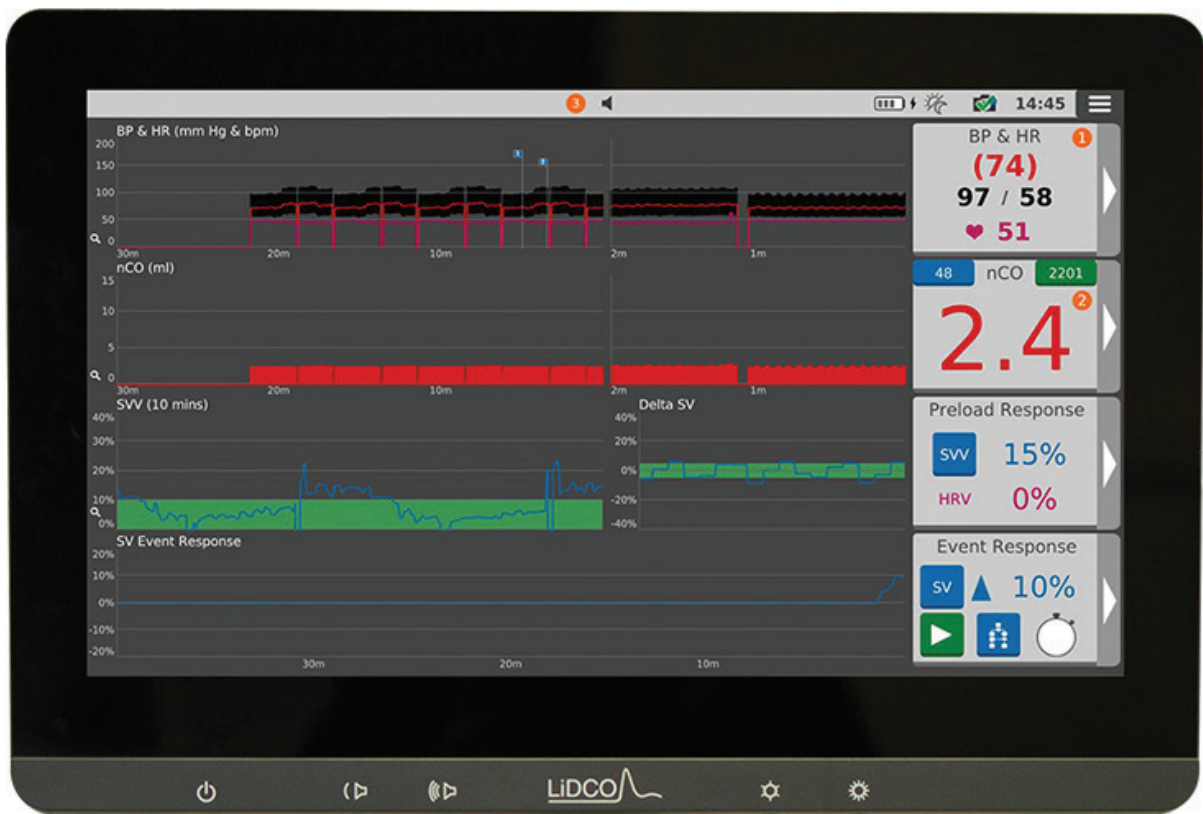


# Masimo LiDCO™ Haemodynamic Monitoring System



The LiDCO Haemodynamic Monitoring System provides beat-to-beat advanced haemodynamic monitoring to support informed decision making in high-acuity care areas such as the Operating Room.

- > Uses existing arterial line and blood pressure transducer to monitor haemodynamic parameters
- > PulseCO™ algorithm converts beat-to-beat blood pressure into its constituent parts, flow and resistance, scaled to each patient's age, height, and weight
- > Proven to be reliable on patients on vasoactive drugs<sup>1</sup>

## Key Features

**Trend Notifications**  
Alerts user to significant haemodynamic changes (>10%) to encourage an immediate response to patient deterioration

**3-Hour Battery**  
For portability around the bed space and seamless transition to different clinical areas

**Day/Night Mode**  
Switch between day and night mode to best suit your environment

**Short-term Trend**  
2-minute window for greater focus on the immediate response to interventions

**Long-term Trend**  
Facilitates interpretation of trends from the start of monitoring, which can be customised to show only the parameters you need

**Event Response**  
Allows you to mark and monitor specific events, like a fluid challenge

**Guided Protocols**  
To help you assess fluid responsiveness (Fluid Challenge, Passive Leg Raise and New Ventilator Tests)

**Education**  
On-screen educational screens for calibration

**Preload Response**  
Displays volume status indications for Pulse Pressure Variation (PPV%) and Stroke Volume Variation (SVV%)

## Easy Setup and Operation

The LiDCO Monitor is designed for efficient setup and simple operation, with an intuitive, easy-to-interpret display—facilitating effective haemodynamic management even on those patients who are haemodynamically unstable and require fluid and drug support.

- > Plug-and-play operations using the invasive blood pressure output port on the vital signs monitor
- > Monitor using the existing blood pressure transducer, eliminating the need for an additional disposable

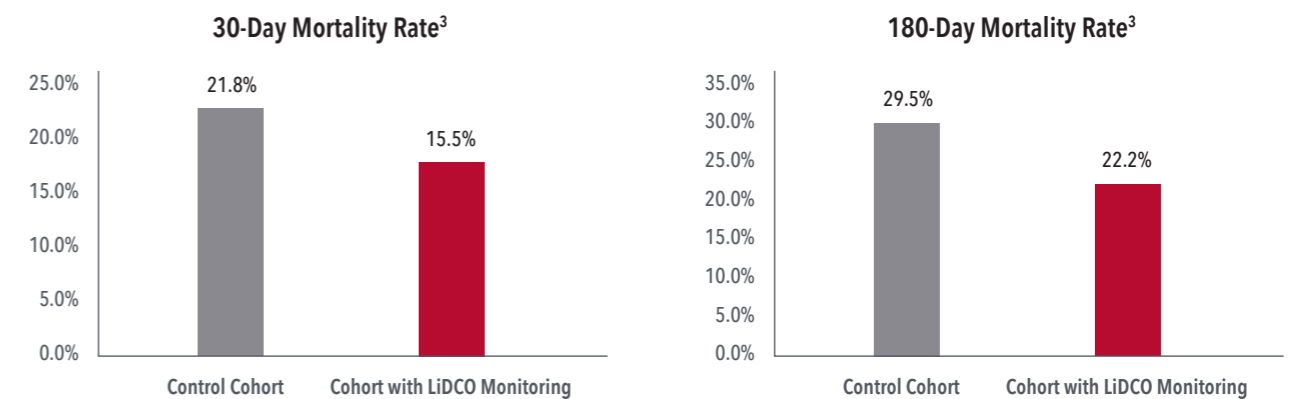
## Clinical Evidence

### Reductions in Postoperative Complications and Costs

> In a randomised, controlled trial of 743 patients undergoing major abdominal surgery, researchers found haemodynamic optimisation with LiDCO led to a 20% reduction in postoperative complications and, as a result, patients monitored with LiDCO were on average \$530 less expensive to treat than control patients who were not monitored.<sup>2</sup>

### Reductions in 30-Day and 180-Day Mortality

> In a study comparing the outcomes of 600 emergency laparotomy patients, researchers found that, following the implementation of a program including LiDCO technology, there was a significant decrease in mortality at 30 days (from 21.8 to 15.5%) and 180 days (from 29.5 to 22.2%).<sup>3</sup>



## Parameters and Indicators

The beat-to-beat parameters displayed by the LiDCO monitor provide immediate feedback on a patient's fluid and haemodynamic status.

### The LiDCO monitor provides the following parameters:

- > **Stroke Volume (SV):** The amount of blood pumped by the left ventricle of the heart in one contraction
- > **Cardiac Output (CO):** The amount of blood the heart pumps through the circulatory system in a minute, calculated by multiplying the stroke volume by the patient's heart rate
- > **Systemic Vascular Resistance (SVR):** Reflects the resistance to flow and is calculated as the quotient of pressure and cardiac output
- > **Oxygen Delivery (DO<sub>2</sub>):** The amount of oxygen delivered to the tissues, calculated as the product of cardiac output and oxygen concentration
- > **Stroke Volume Variation (SVV):** A dynamic variable that can predict fluid responsiveness in mechanically ventilated patients, SVV is the variation in stroke volume across at least one respiratory cycle
- > **Pulse Pressure Variation (PPV):** Another dynamic variable that can predict fluid responsiveness in mechanically ventilated patients, PPV is the variation in arterial pulse pressure across at least one respiratory cycle

# Monitor Specifications

## PHYSICAL CHARACTERISTICS

Weight ..... 4.7 kg  
Dimensions ..... 406 x 274 x 61 mm

## ENVIRONMENTAL

Operating Temperature ..... 10–40°C (50–104°F)  
Operating Humidity ..... 30–75 % RH non-condensing  
Operating Atmospheric Pressure ..... 700–1060 mbar

## ORDERING INFORMATION

LiDCO Hemodynamic Monitor Kit ..... PN 99026

## PARAMETERS SUPPORTED

Stroke Volume (SV)  
Cardiac Output (CO)  
Systemic Vascular Resistance (SVR)  
Oxygen Delivery (DO<sub>2</sub>)  
Stroke Volume Variation (SVV)  
Pulse Pressure Variation (PPV)

LiDCO is not licensed for sale in Canada.

<sup>1</sup> LiDCO data on file. <sup>2</sup> Pearse R et al. Effect of a perioperative, cardiac output-guided hemodynamic therapy algorithm on outcomes following major gastrointestinal surgery: a randomized clinical trial and systematic review. *JAMA* 2014; 311(21):2181-90. <sup>3</sup> Tengberg LT et al. Multidisciplinary perioperative protocol in patients undergoing acute high-risk abdominal surgery. *Br J Surg* 2017; 104:463-471.

For professional use. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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