The LiDOCO Hemodynamic Monitoring System provides beat-to-beat advanced hemodynamic 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 hemodynamic 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 drugs¹
Key Features

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

**Internal Battery**
For portability around the bed space and seamless transition to different clinical areas

**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 customized to show only the parameters you need

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

**Internal 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

**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 hemodynamic management even on those patients who are hemodynamically 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 randomized, controlled trial of 743 patients undergoing major abdominal surgery, researchers found hemodynamic optimization 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.²

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%).³

![Graph showing 30-Day and 180-Day Mortality Rates](image)

Parameters and Indicators

The beat–to–beat parameters displayed by the LiDCO monitor provide immediate feedback on a patient’s fluid and hemodynamic 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 (DO2):** 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**: 50–104°F (10–40°C)
- **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 (DO2)
- Stroke Volume Variation (SVV)
- Pulse Pressure Variation (PPV)

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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