

Convincing flexibility ...

Optimal readability

- Brilliant 8" LED colour screen with high resolution
- Dark background and wide reading angle (>170°)

Easy to use

- Glass touch screen and intuitive user interface
- Various graphic displays for facilitated interpretation

Comfortable handling

- Minimised dimensions and low weight
- Flexible mounting and installation possibilities

Future-proof platform concept

- Modular expandability with automatic module detection
- Network compatible e.g. print function via clinic network



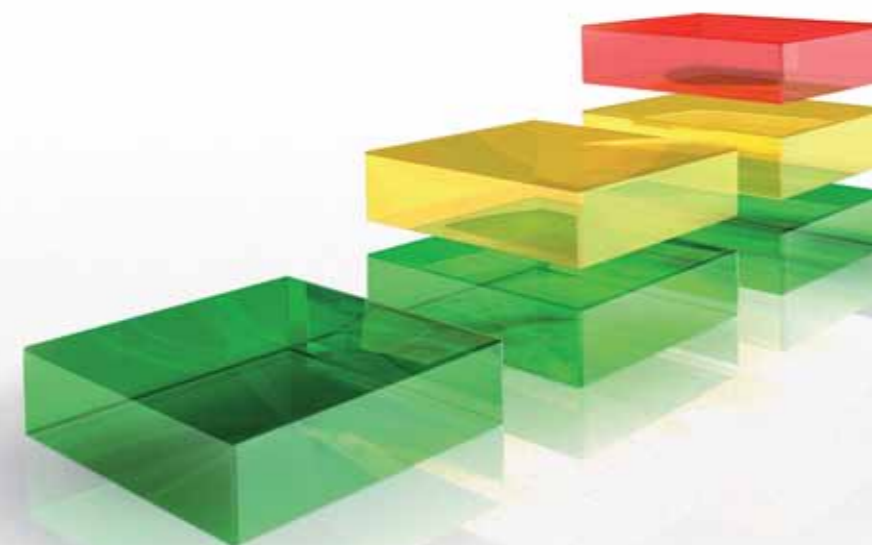
PulsioFlex and StepWISE

With the PulsioFlex® platform the StepWISE® monitoring concept will be implemented consistently in the peri-operative field. Through modular expandability and the availability of efficient PULSION monitoring technologies, the system is able to be adapted to each patient's individual need at any time.

The PulsioFlex® monitoring platform is optimised for the use in the peri-operative environment. Its integrated core technology ProAQT for cardiac output trending is part of the middle level of the StepWISE® monitoring concept. ProAQT is an indicator and monitoring tool for early recognition of haemodynamic instability in high risk surgery patients.

The PulsioFlex® platform can also be used as a stand-alone monitor without affecting its ability to be upgraded at a later stage if necessary.

StepWISE Intelligent Patient Monitoring

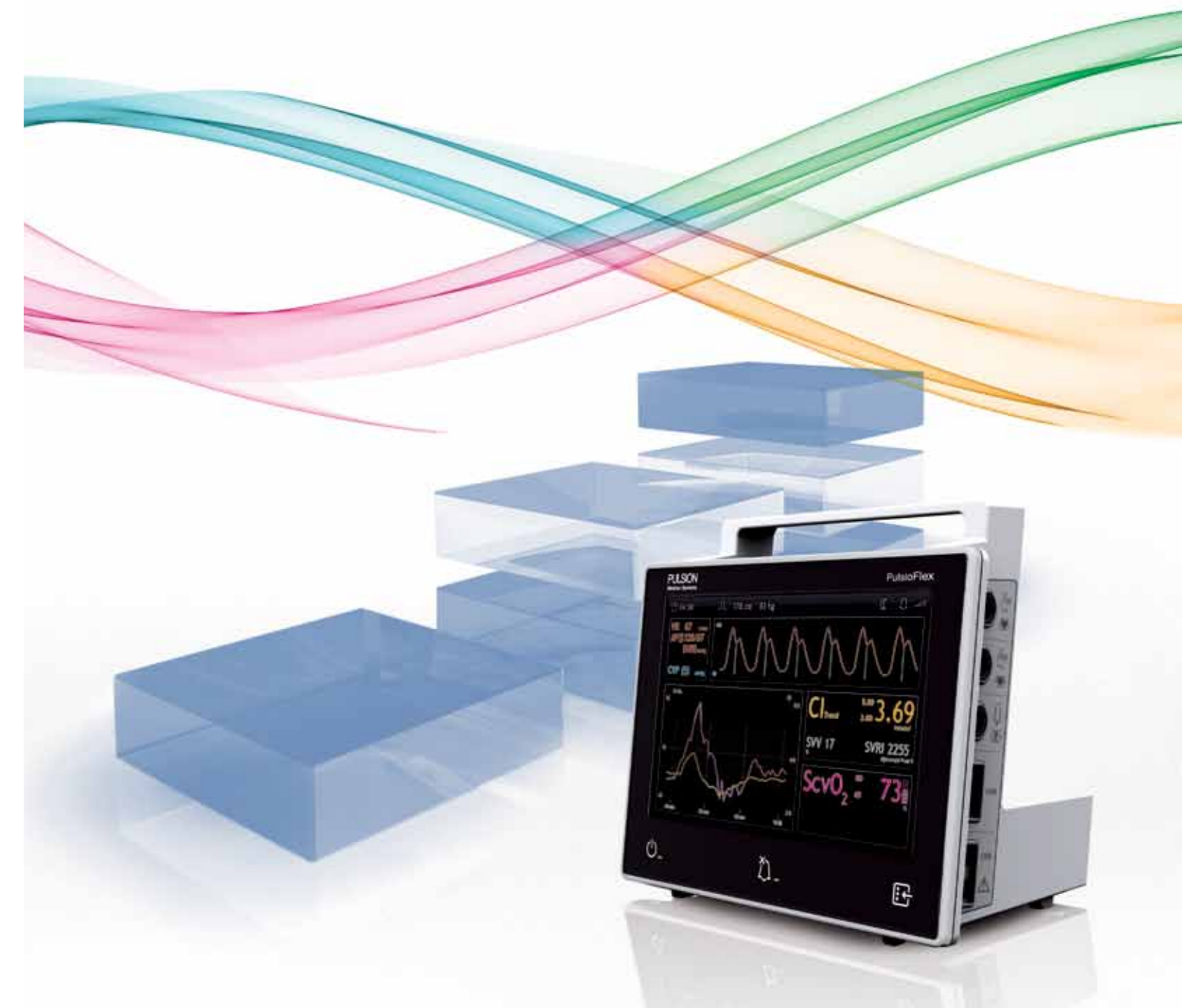


The patient is the focus of PULSION's StepWISE® monitoring.

- StepWISE® offers patient-customised monitoring.
- StepWISE® considers the patient's clinical status, the locations in the hospital and the information needs of nursing and medical staff.
- StepWISE® provides the optimal parameters for any situation from the range of different PULSION monitoring technologies.

PulsioFlex

Patient Centered Flexibility



Optimised for flexible peri-operative monitoring:

- Integrated CO Trend monitoring (ProAQT)
- Expandable modular monitoring platform
- PulsioFlex® is part of StepWISE® Intelligent Patient Monitoring

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PULSION
Medical Systems

So many different questions require flexible solutions ...

PulsioFlex® is a flexible monitoring platform optimised for peri-operative monitoring. It can be adapted to individual needs in order to answer the following questions:

Detection of peri-operative deterioration of haemodynamics:

- Is the systemic oxygen supply stable?
- Does an increase in preload lead to a higher CO?

ProAQT **CeVOX**

CO Trend, ScvO₂
Volume responsiveness SVV/PPV

Pre- and intra-operative volume optimisation:

- Is the patient adequately filled?

PiCCO **ProAQT**

CO, preload, lung water, volume responsiveness

Detection of patients with increased post-operative risk profile:

- Is there or was there hypoxia?
- Is there increased risk due to liver dysfunction/ reduced splanchnic perfusion?

CeVOX **LiMON**

Continuous ScvO₂ monitoring
PDR_{ICG}

Post-operative management of haemodynamic complications:

- Adequate oxygen supply?
- Volume or catecholamines?
- Does an increase in preload lead to a higher CO?
- Risk of volume overload?

PiCCO **CeVOX**

CO, ScvO₂
CO, preload, contractility, afterload
Volume responsiveness
Lung water

Special risk and function monitoring in liver surgery:

- Is there graft dysfunction post liver transplantation?
- Is the remaining liver function enough to withstand a planned liver resection?
- Is there liver dysfunction post surgery?

LiMON

PDR_{ICG}
PDR_{ICG}
PDR_{ICG}

Flexibility meets design ...



PULSION's monitoring solutions provide the flexibility you need ...

ProAQT



Professional arterial flow* trending (CO trend monitoring):

- CO trend monitoring via a standard arterial catheter
- Manual and automatic calibration possible
- Validated start value determination and PiCCO based pulse contour algorithm

* the Q of ProAQT is the physical symbol for flow

Integrated in PulsioFlex platform

Fields of application:

- Peri-operative monitoring of patients who are at high risk and/or having high risk interventions

PiCCO



Complete haemodynamic monitoring:

- Calibrated real-time CO and stroke volume
- Determination of preload volume and diagnosis of pulmonary oedema
- Afterload, contractility and volume responsiveness

Fields of application:

- Peri-operative volume optimisation
- Post-operative management of haemodynamically unstable intensive care patients
- Diagnosis of pulmonary oedema in critically ill patients

Module planned for 2011

LiMON



Liver function monitoring:

- Liver function test available at the bedside
- Non-invasive measurement of the plasma disappearance rate of indocyanine green (PDR_{ICG})
- High specificity and sensitivity for liver dysfunction

Fields of application:

- Peri-operative monitoring of liver transplantations
- Risk assessment before liver surgery
- Liver function monitoring in critically ill patients

Available as module

CeVOX



Continuous ScvO₂ monitoring:

- Fiberoptic measurement via standard CVC
- Calculation of oxygen extraction O₂ER
- Assessment of oxygen balance (O₂ delivery vs. O₂ consumption)

Fields of application:

- Peri-operative monitoring of patients who are at high risk and /or having high risk interventions
- "Early goal directed therapy" in septic shock and other intensive care patients

Available as module