Zeus® Infinity® Empowered reinforces its position as “the innovative anaesthesia workstation” with new hardware and software enhancements. Beside the 20” HD touch screen, two new options are available: Smart Ventilation Control, an exceptionally outstanding ventilation assistance system, and integrated SmartPilot® View, a software to visualise and predict the anaesthesia level.

**SMART VENTILATION CONTROL (SVC)**

“YOUR VENTILATION ASSISTANT”

Smart Ventilation Control is a clinical-knowledge based assistance system which adapts ventilation to physiology from intubation until extubation. Once you defined the target ranges for tidal volume and end-tidal carbon dioxide (etCO$_2$), your ventilation assistant SVC helps to ensure that ventilation stays within these ranges.

**Safe** – Lung-Protective Ventilation during Anaesthesia

Designed to control ventilation settings using evidence-based rule sets and to deploy protective ventilation in the OR

**Spontaneous** – Maximise Spontaneous Breathing

Anaesthesia Designed for smoothly and individualised transition from controlled ventilation to spontaneous breathing

**Simple** – The Intuitive Approach to Ventilation

Designed to achieve ventilation therapy goal just by one setting

**SMARTPILOT® VIEW**

“KEEP YOUR TARGET IN SIGHT”

SmartPilot® View turns raw data into straightforward visual information which supports fast compilation of data to support decision making for more precise titration of anaesthesia. Based on pharma kokinetic and pharma-kodynamic patient models, the software calculates and visualises the combined effects of analgesics and hypnotics both for the current and the predicted course of anaesthesia. SmartPilot View can be displayed as a split screen application on the Zeus IE screen.

- Prediction of the depth of anaesthesia for the next 15 minutes in a dynamic 2D-diagram
- Indicates the time until the tolerance of shake-and-shout (TOSS) is reached
- Consideration of dosage information from DIVA and infusion pumps
- Assistance system which supports to:
  - steer depth of anaesthesia
  - apply drugs in a reasonable mix and amount
  - estimate wake-up time of the patient
SOFTWARE ENHANCEMENT FOR BETTER “IMPACT”

Workflow Support

The new Pause Mode (formerly named Ventilator Standby Mode) is for pausing the ventilator and the gas delivery when the patient is disconnected (e.g. intubation or repositioning of the patient). Timer functionality displays the total pause time and issues an alarm when pause time is elapsed.

The related xMAC value is displayed above the target end-tidal concentration setting*. Thus, the impact of the end-tidal anaesthetic agent setting becomes instantly visible and supports the clinical decision process.

* in Auto control-mode with carrier gas “AIR”

ADVANCED MONITORING AND ALARM MANAGEMENT

– Improved indication when refilling of the agent-dosing modules (DIVA) is required – low filling level alarm of DIVA receives higher priority if module is active
– Configurable alarm classification for apnoea ventilation during pressure support helps to reduce alarm fatigue

Not all products, features, or services are for sale in all countries.
Mentioned Trademarks are only registered in certain countries and not necessarily in the country in which this material is released. Go to www.draeger.com/trademarks to find the current status.

Screen layout can be configured to display the gas measurement values on the upper left corner of the screen. This enables to standardise the screen layout among Dräger anaesthesia devices which would enhance the ease-of-use of mixed installations (e.g. hospitals with Perseus and Zeus IE).

In Fresh-gas control with carrier gas “AIR”, the O₂ concentration can be set at 21% to deliver pure air. The sensitive oxygen ratio controller (ORC) still ensures that at least 250 mL/min of oxygen is delivered to the system.

– Further parameter boxes can be displayed
– Trend of MVxCO₂ (product of minute volume and difference of expiratory and inspiratory CO₂) as indicator for CO₂ production by the patient
– Resistance- and Patient-Compliance trend