



Redefining anesthesia

DRÄGER ZEUS®
INFINITY® EMPOWERED

“The potential to do more”

Target controlled anesthesia



CHALLENGING TIMES

Today, modern anesthesia is faced with important challenges such as increased patient throughput, spiraling costs and new, more demanding procedures. In this setting, the reliability, ease of use and efficiency of the medical technology you work with are factors which can have a significant impact on both therapeutic outcome and economic results.

PROCESS SUPPORT MEANS EFFICIENCY

Process optimization is an important factor in the efficiency equation; a modern anesthesia workstation has to do more than offer state-of-the-art ventilation therapy and monitoring capabilities. It should also provide support for essential perioperative processes such as preparation, documentation, information management, pre- and postoperative routines, self-testing and maintenance.

INTEGRATION MEANS EFFICIENCY

A truly advanced anesthesia workstation should help you plan and maintain the desired level of anesthesia with the highest possible safety, accuracy and efficiency and provide you with access to any information you need. It should include comprehensive monitoring capabilities and features which enhance your ability to make timely, informed decisions. Perhaps just as important, it should also be highly intuitive, to ensure that, in spite of its advanced technology, it is still easy to use.



THE ZEUS IE ANESTHESIA WORKSTATION OUR ULTIMATE ANESTHESIA SOLUTION

The Dräger Zeus® Infinity® Empowered (IE) gives you seamless integration of several products: ventilation, therapy, monitoring, information management and decision support in a single, state-of-the-art solution. Taking the anesthesia process well beyond present frontiers, the Zeus IE represents a technological milestone which gives you the kind of systems integration and workflow control no other workstation can offer. The Dräger Zeus IE lets you concentrate on your patient, not on your workstation.

TARGETING THE HIGHEST POSSIBLE EFFICIENCY

The Zeus IE features Target Controlled Anesthesia (TCA) technology. After setting targets for parameters such as expiratory anesthetic and inspiratory oxygen concentrations, the Zeus IE then calculates the most efficient route to success, while redundant gas sensors and intelligent safeguards work together for enhanced patient safety. TCA can even be used in conjunction with closed loop anesthesia, a powerful combination which can substantially reduce consumption of costly anesthetic agents.

UNCOMPROMISING VENTILATION THERAPY

The Zeus IE offers high ventilation quality in the OR on ICU level. The innovative, turbine-driven TurboVent² ventilation concept can provide practically unlimited inspiratory flow, regardless of the ventilation mode while giving you all the advantages of spontaneous breathing and active PEEP.

IMPROVED WORKFLOW AND PATIENT OUTCOME

The Zeus IE assists you with smart and decision supporting functionalities to improve workflow and patient outcome. Smart Ventilation Control (SVC), an exceptionally outstanding ventilation assistance system, 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, SVC helps to ensure that ventilation stays within these ranges. The integrated SmartPilot View uses pharmacokinetic and pharmacodynamic patient models to visualise and predict anaesthesia level to support decision making for more precise titration of anaesthesia.

HIGH LEVEL OF INTEGRATION

Zeus® IE is an outstanding high level integrated anaesthesia workstation which supports your workflow. It combines intensive care ventilation quality and performance for all kind of patients, automated anaesthesia gas delivery, integrated patient monitoring, assisting and decision supporting software technologies in one anaesthesia workstation.

VENTILATION PERFORMANCE

The high performance blower unit TurboVent2 offers ventilation performance on ICU level especially for pressure oriented breathing modes and spontaneous breathing.

SMART VENTILATION CONTROL

The option Smart Ventilation Control (SVC) of Zeus® IE is able to adapt the ventilation settings according to the therapeutic goal given by the clinician to ensure lung-protective ventilation, reduce necessary user interactions and smoothen the transition from controlled ventilation to spontaneous breathing.





STANDARDISED USER INTERFACE

The Zeus® IE features the well-known user interface, same as you find on the Infinity® Acute Care System monitoring and Däger ICU ventilators. The 20" touch screen stands for optimal legibility of parameters.

The standardised user interface and personalised screen layouts support an intuitive and easy use of the Zeus® IE.

QUANTITATIVE ANESTHESIA

The closed-loop anaesthesia mode allows target oriented anaesthesia and enables to replace the exact amount of O₂ and anaesthetic agent which is metabolised by the patient. This reduces the waste gas to a minimum and optimises the temperature and humidity of the inhaled gas.



At Dräger, we know that the OR process is more than just an operation. Preparation, documentation, postoperative routines and maintenance are also essential components. The Zeus® IE was designed to help you increase your perioperative productivity – one of the most important factors in creating the most cost-effective working environment possible.

ERGONOMIC, FINGERTIP CONTROL

Ventilation parameters, anesthetic gas delivery and integrated patient monitoring (optional) are all clearly visualized and easily controlled from the same touch screen*. A clear and intuitive common menu structure makes operation easy and helps you streamline your workflow.

INFORMATION MANAGEMENT AND SUPPORT

Comprehensive information access is provided through the Infinity Acute Care System monitoring. This dual-screen concept allows you to access patient formation without interrupting the stream of vital patient monitoring data. An integrated drug library automatically sets default values, provides color coding and dosage boundaries.

* Only with Integrated Patient Monitoring option

Build your own Zeus[®] Infinity[®] Empowered workstation



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WITH INFINITY[®] ACUTE CARE SYSTEM MONITORING

Zeus IE when combined with IACS patient monitoring and IT applications provides a comprehensive set of data. The instant access possibility to further patient data, diagnostic images or lab results, enables the consolidation of data to support therapy decisions at point of care.



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WITH INTEGRATED PATIENT MONITORING

Zeus IE has a pioneering role when it comes to system integration. With optional integrated patient monitoring in addition to the ventilation, fresh-gas and anaesthetic gas data, the haemodynamic parameters can also be monitored on the 20" touch screen. All the information needed to make decisions is available at a glance, thus helping you to improve workflow efficiency.



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The integrated patient monitoring option also allows to set and monitor OR specific parameters e.g. NMT and BIS, via the same user interface to improve quality of care. Additionally intelligent alarm management and data output contributes to streamlined workflow while avoiding redundant input of patient data.



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