

Press Release

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Precision lighting with the new Dräger Polaris

Medical light system with LED technology provides shadow control, color fidelity and optimal depth-of-OR-field illumination

Lübeck – A natural color spectrum, ensuring almost shadowless illumination of the OR field, is what virtually every surgeon wants. Dräger meets this customer requirement with the new Polaris family of light systems.

To enable surgeons to do the best job possible, hospitals require a neutral white light that illuminates depths, casts virtually no shadows, is easy to use and clean, and can be adapted to future LED technologies – not only in the operating room, but also in emergency and multifunction rooms. These criteria are all possible with the new Dräger Polaris family of light systems.

Compared with conventional light sources, the smaller LEDs of the Polaris system are considerably more energy-efficient than conventional light sources. An LED light source has a life span of about 30,000 hours (corresponding to about seven to ten years of service life in the operating room), while the life span of a conventional light source is about 1,000 hours (corresponding to about four months of service life in the operating room). The slight amount of lost heat from the LEDs is dispensed through the top of the housing.

The different Polaris models are distinguished by their illuminating power. They can be used as an individual OR light or as a satellite in multiple-light systems, and can also be equipped with an integrated camera.

This new product design received the *red dot design award 2008* which, according to the Design Zentrum Nordrhein Westfalen, is based on criteria such as innovation, functionality, quality and ergonomics.

Focused light

The 108 light-emitting diodes of the Polaris (700 model) distribute light with a color temperature of 4,600 Kelvin. "Cold light" (without long-wave infrared content) is generated by means of a phosphor layer on the semiconductor and focused via an optical system. The LEDs are installed in the reflectors in pairs.

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The individual light paths form a light cylinder which has an illumination depth of about 1,100 millimeters and a variable diameter of 220 to 290 millimeters. This ensures that the light of each LED can be focused on the OR field and that several surgeons can work simultaneously on the OR field without noticeably reducing the brightness.

(Characters incl. spaces: 2,383)

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