

## Dräger Polaris® Simply good light!

Polaris® medical lighting systems deliver cool, efficient and powerful illumination for almost any situation. Highly efficient, state of the art and designed for compatibility, these lights can be upgraded to our future developments and were engineered to protect your investment. The Polaris® is simple to handle and operate, easy to clean, safe and reliable.



### TRUE BRILLIANCE

The Dräger Polaris line of medical illumination systems represents a union of innovation and proven technology. The Polaris provides the kind of dependable, high-quality light you have always wanted. A source of light that is brilliant, cool, efficient and economical.

### THE LED ADVANTAGE

High-power LEDs last up to 25 times longer than conventional halogen or gas discharge lamps while consuming just a fraction of the energy. This translates to significant savings for both you and the environment. The LEDs used by the Polaris will provide approximately 30,000 hours of quality illumination.

### POLARIS® 700

The Polaris 700 features 54 precision reflectors, each holding two LEDs, giving you a total of 108 LEDs. These are bundled together in 6 separate arrays that move in unison when the central handle is rotated. This reflector array design provides adequate shadow control and depth illumination.

### POLARIS® 500

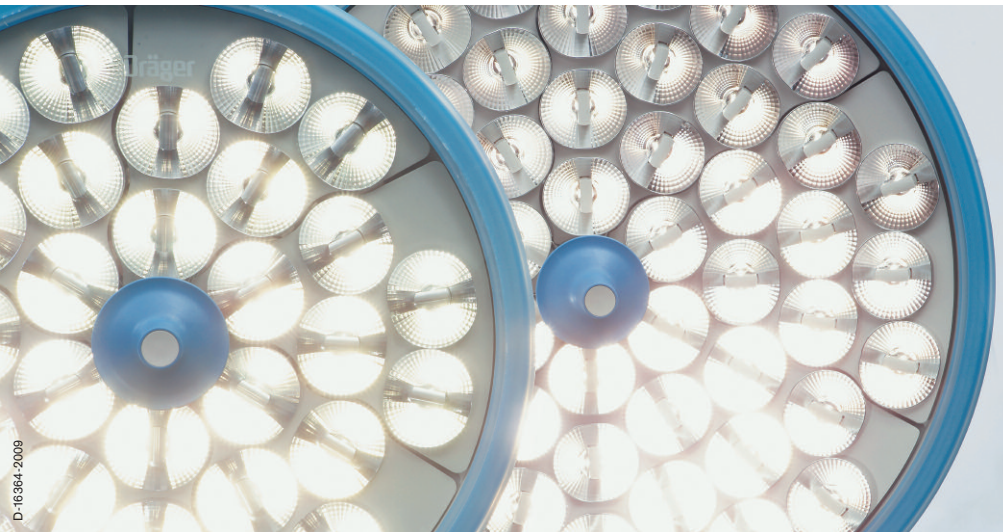
The Polaris 500 is a good choice to expand the performance of the surgical light system Polaris. Featuring a total of 60 LEDs the light head provides you with additional illumination capacity. The Polaris 500 can be used as single minor surgical light as well as in several combinations.

### STAY COOL – GET REAL

The Dräger Polaris 700 lighting system puts 40,000 - 160,000 lx of light at your fingertips. The Polaris 500 satellite produces 40,000 - 110,000 lx. The colour temperature of both lights is 4,600 K neutral white, giving the surgeon a realistic, detailed and undisturbed view of the operating field. The light beam projected by the LEDs is inherently cool; the thermal energy produced is dissipated by the integrated thermal management system TMS™. The result is a cool operating field and a modern, compact, lightweight casing design.



reddot design award  
winner 2008



## Ready for the present, fit for the future

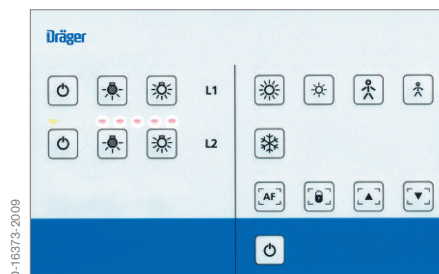
The LEDs can be simply and easily exchanged. This will help you save both time and money. Because progress in LED technology is so rapid, we expect even more efficient diodes will be available in the near future. The modular design of the Polaris means that upgrading to these new LEDs will be easier and more economical.

### CASE CLOSED

The lightweight casing design features smooth, seamless surfaces and large, integrated, easy-access handles for enhanced ergonomics. The Polaris conforms to the hygiene standard\* and is approved for use with laminar flow. The Polaris comes with a proven suspension system which includes a simple, straightforward operating concept.

### AWARD WINNING DESIGN

In 2008, the Dräger Polaris received both the esteemed reddot design award and the Good Design Award, which are based on criteria such as innovation, functionality, quality, ergonomics and sustainability. It has also been nominated for the German Federal Design Prize 2009, an equally prestigious award based on similar criteria.



The functions of the Polaris® can be accessed by unsterile personnel using the intuitive and hygienic control panel.

\*DIN 1946-4:2008-12



D-16347-2009



D-16861-2010

Polaris with integrated camera and display

#### CAMERA OPTION

With the Polaris 750 and Polaris 550 models, you have the option to equip the light heads with a quick-mounting camera which lets you capture procedures whenever the need arises. Just replace the sterile central handle with the camera and you're ready to go. The camera functions can be easily controlled by non-sterile personnel from a wall panel.

#### PUTTING IT ALL TOGETHER

When it comes to planning and designing medical workspaces, Dräger can look back on decades of experience and a thorough understanding of hospital workflow and customer needs. We at Dräger will work closely with you to find and realize the best possible solution. In addition to that our world-renowned DrägerService® is there for you.

## TECHNICAL DATA DRÄGER POLARIS®

| Technical Data                              | Dimensions        | Polaris 700 <sup>1</sup> /Polaris 750 <sup>1</sup> | Polaris 500 <sup>1</sup> /Polaris 550 <sup>1</sup> |
|---|-------------------|--|--|
| Diameter of light heads                     | [mm]              | 785  | 630  |
| Max. illuminance in 1 m distance at 4,600 K | [lux]             | 160.000  | 110.000  |
| Light field diameter adjustable             | [mm]              | 220–290  | 220–290  |
| Colour temperature                          | [K]               | 4.600  | 4.600  |
| Colour rendering-index R <sub>a</sub>       | [R <sub>a</sub> ] | 93   | 93   |
| Depth of illumination (L1 + L2)             | [mm]              | 1.100  | 1.300  |
| Light sources                               | [pcs]             | 108 high performance LED                           | 60 high performance LED                            |
| Life time light sources                     | [h]               | app. 30.000  | app. 30.000  |
| Max. Power consumption of all light sources | [W]               | 108  | 60   |
| Power supply                                |                   | 24 V AC/DC, 100 V - 240 V AC, 50 Hz/60 Hz          | 24 V AC/DC, 100 V - 240 V AC, 50 Hz/60 Hz          |
| Input into universal switch unit            | [V]               |  |  |
| Camera                                      |                   | Camera SD  | Camera SD  |

<sup>1</sup> Polaris 700 and Polaris 500 – light heads without preparation for integrated camera  
Polaris 750 and Polaris 550 – light heads prepared for camera integration



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Dräger Medical GmbH is certified  
according to ISO 13485, ISO 9001  
and Annex II.3 of Directive 93/42/EEC  
(Medical devices).