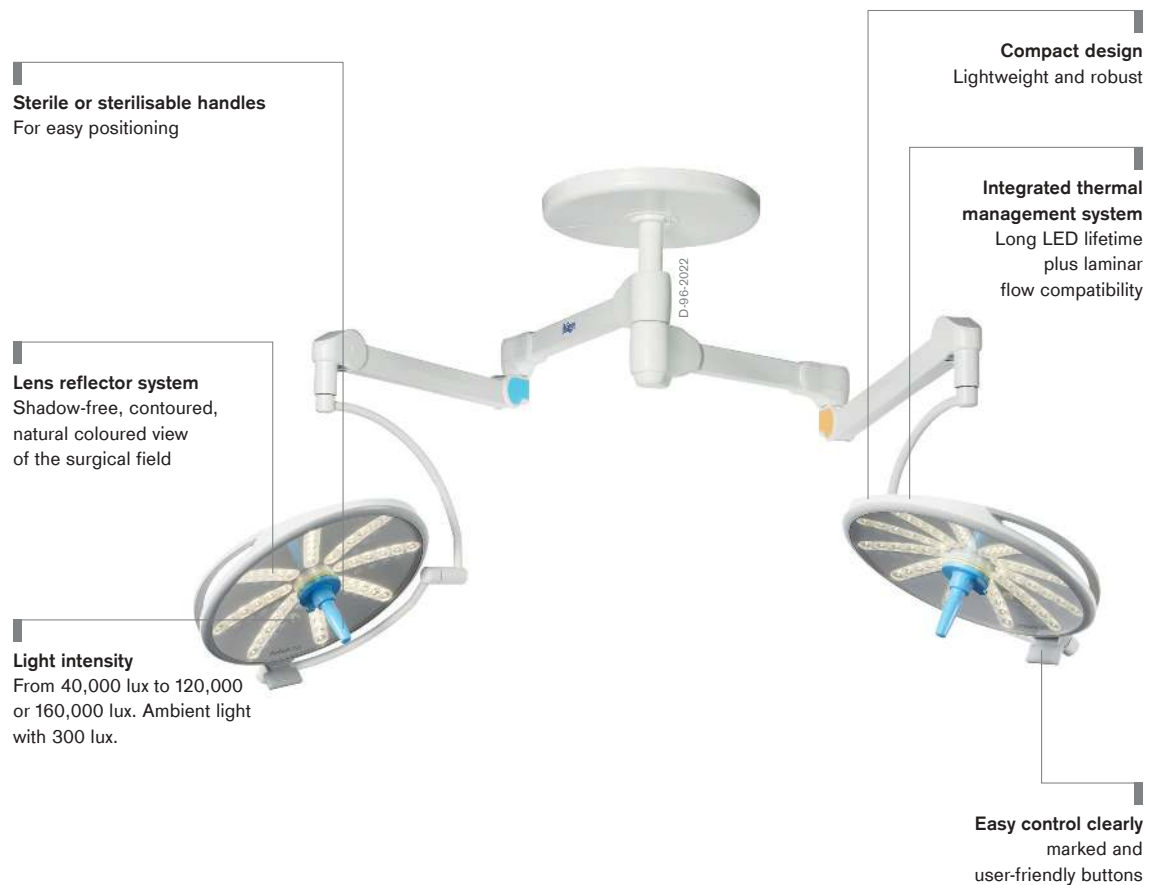


Dräger Polaris® 100/200 Operating Lights

In the operating room, the right illumination is essential for success. The Polaris® 100/200 surgical illumination systems provide cool light with natural colours and rich-contrast for thousands of hours of carefree operation without straining on your hospital's budget.



Benefits

LED technology in the OR

LEDs are highly efficient light sources for surgical applications. Dräger has now combined the advantages of this innovative light source with a new, extremely compact, lightweight yet robust design that includes individual lens reflectors for enhanced output and shadow control. Even the little heat produced by the LEDs is regulated and dissipated by an integrated Thermal Management System. The maximum light head temperature (upper surface) will not exceed 35 °C*. With an average operational lifetime of 50,000 hours, this LED technology is as reliable as affordable.

* At a room temperature of 20 °C.

The Polaris 100

The all new, highly compact Polaris® 100 features 48 LEDs with an output range of 40,000 to 120,000 lux. A special mode provides ambient light from a single LED to support minimal invasive procedures. The sleek yet very sturdy light head weighs just 13 kg and makes positioning extremely easy and comfortable. Without any moving parts in the light head this system requires almost no maintenance. With a colour-rendering index Ra of 95 and a colour-rendering index R9 93, the Polaris system offers you a contrast-rich and natural illumination without compromising red tones. The Polaris 100/200 lighting system can be equipped with warm white, neutral white or cold white (4,400 K, 5,000 K or 5,600 K) LED lights.

The Polaris 200

Without changing the external dimensions or design, the Polaris 200 gives you additional 18 LEDs for a total of 66. This translates to a maximum output of 160,000 lux. The light intensity can be easily dimmed down to 40,000 lux. Color temperature and rendering index are identical to those of the Polaris 100.

Each LED is equipped with its own lens reflector system. The homogenous light column of both lights provides the surgeon with a shadow-controlled, contour-rich, natural color view of the surgical field.

Compact design, simple operation

The classic round design includes integrated handles for nonsterile personnel and touch panel controls for easy handling and operation. Sterile personnel can position the Polaris 100/200 easily with the central sterile handle. You can either choose between the sterilisable or sterile handle, depending on your infection prevention concept. Each of the four clearly marked control buttons performs a single function, and an optional, wall-mounted control panel is also available. The smooth, seamless casing makes cleaning quick and simple, while its lightweight construction ensures practically effortless positioning.

Easy installation and maintenance

The straightforward design philosophy of the Polaris 100/200 makes installation and maintenance very easy. The light heads are controlled by the proven Powerline Communication (PLC) system.

Benefits

The Polaris 100/200: Simply good light!

The Polaris 100/200 surgical illumination system is an economical, high-performance solution for your daily surgical routine. This workhorse is designed for years of carefree operation and minimal maintenance. Its exceptional reliability and price/performance ratio will help you reduce investment costs today as well as maintenance and operating costs tomorrow.

The mobile Polaris 100/200

The mobile Polaris light can be used as an additional single light in the OR – for example, for cardiovascular interventions where the patient has to undergo several procedures at the same time. Of course the high-quality mobile light can also be used in the ER or in treatment rooms. The mobile Polaris 100/200 is especially useful when it is not possible to install a fixed, ceiling-mounted light due to unsuitable infrastructure. The trolley features a fully closed cover, which ensures the light is easy to clean. The rear double castors are equipped with locking brakes.

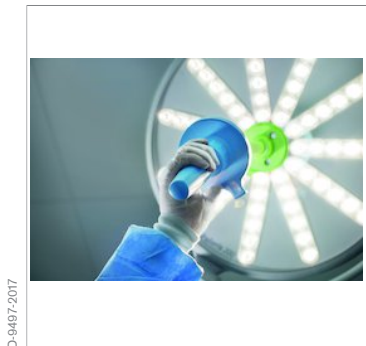
With the Polaris light your hospital is equipped with state of the art, high performance LED technology combined with a functional, high quality design. The Polaris is approved as both a surgical light and a treatment light and is available with a choice of light intensity and colour temperature. With up to 160,000 lux and a smooth cardanic mounting for exact positioning, the mobile version has no functional limitations. Height adjustment supported by pneumatic springs allows for effortless adaptation to transport and operating conditions. In the fully extended position a working height of 2,175 mm is reached under the light head – ideal also for tall surgeons. The transport height of the Polaris 100/200 Mobile, however, is only 1,850 mm.

In the event of a mains power failure, the integrated battery provides uninterrupted power to the light with at least three hours guaranteed supply. As soon as the battery falls below a charging state of 25 % – this equals a remaining operating time of approx. 45 minutes – you will be warned by an integrated, acoustic reminder message. LED status indicators on the trolley also show the status of the power supply and state of charge of the battery.

Details



Accessories



Sterilisable Handle

The replaceable handle allows the surgeon to adjust the OR light easily and independently from non-sterile personnel. Manufactured as a single piece, it is easy to sterilise and can be operated with surgical gloves.

Accessories



D-26851-2017

Sterile Handle

The disposable handle is easy to mount and remove, and allows for comfortable handling. It is only available for Polaris OR lights and display holders.

Related Products



D-17428-2014

Dräger Polaris® 600

Our OR light is state of the art: The Dräger Polaris® 600 makes your working day a lot easier – with intuitive controls and versatile configuration options. The future-proof system concept remains true to the philosophy of the product family providing you with simply good light.



D-4254-2022

Dräger Polaris® Multimedia

Document surgical procedures in standard or professional quality with one of several flexible, standard or high resolution video solutions.

Technical Data

Dräger Polaris® 100/200

	Polaris® 100	Polaris® 200
Light intensity in 1 m distance	40,000 – 120,000 lx	40,000 – 160,000 lx
Ee/Ec ratio	3,5 (mW/m ²)/ lx	3,5 (mW/m ²)/ lx
Ambient light intensity	300 lx	300 lx
Light field diameter	200 mm	200 mm
Depth of illumination L1 + L2 (20 %)	1,300 mm	1,300 mm
Depth of illumination L1 + L2 (60 %)	750 mm	750 mm
Colour temperature ¹	4,400, 5,000, 5,600 Kelvin	4,400, 5,000, 5,600 Kelvin
Colour rendering index Ra	95	95
Colour rendering index R9	93	93
Number of LEDs	48 LEDs in 8 modules	66 LEDs in 11 modules
Service life of LEDs ²	approx. 50,000 hours	approx. 50,000 hours
Ergonomically shaped sterilisable handle	available	available
Ergonomically shaped sterile handle	available	available
Light head diameter	620 mm	620 mm

¹ Lights are produced with the desired colour temperature.

² All LEDs loose 20 % of their intensity during this time.

Options

Display holder for 1-fold 19"-42" Displays, or 2-fold 19" – 32" Displays	available
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Mechanical data mobile Polaris® 100/200

Trolley width	approx. 760 mm
Height adjustment telescopic tube	400 mm
Trolley height in transport position	1,850 mm
Working height	2,175 mm
Weight ³	130 kg

³ mobile trolley, spring arm and light head

Electrical data

Battery charging time	ca. 24 Stunden
Bridging time in case of power supply failure (for fully charged battery)	approx. 180 minutes

Notes

Notes

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.

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