



CHROMOPHARE® LED

E-series surgical lights
with LED technology

CHROMOPHARE® LED

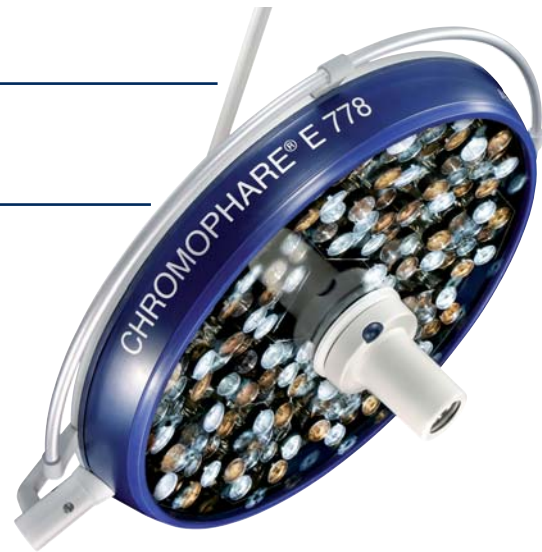


A new way to illuminate the OR

With the introduction of CHROMOPHARE® LED lights, the BERCHTOLD E-series of surgical lights has now been expanded. Complementing its excellent BRITe™ (halogen) and HID (high-intensity discharge) surgical lights, BERCHTOLD offers an extensive selection of products for illuminating the surgical field that can meet any user's requirements and preferences.

The innovative BERCHTOLD CHROMOPHARE® LED lights have ultra-modern, high-performance LEDs to provide outstanding illumination of the surgical field.

innovative



High-performance LEDs

excellent colour properties

Every single LED element within the light modules generates its own light field.

By superimposing all the LED light fields we create a light spot with even illumination to meet with diverse surgical situations. The Spectronixx colour optimisation filter ensures a correct distribution of light. A deliberate combination of cool and warm white LEDs prevents coloured hue shadows from being cast, providing optimal views of all tissue types.

A light without infrared

keeps you cool

A cool light without any transmitted infrared eliminates the problem of heating the area around the surgeon's head providing a comfortable working environment even for surgeries lasting a long time.

Limitless service life

extremely cost-effective

With the nearly limitless 25,000-hour service life of the LED light sources, the CHROMOPHARE® LED lights are efficient and economical at the same time.

economical



Color Select

**you choose the colour properties,
from a range of 3,600 – 5,000 K**

Depending on the surgical situation, the surgeon can select to have natural daylight illumination at 4,500 K or from a range of lower and higher colour temperatures. This helps the surgeon distinguish different tissue types and to recognise true colours. Colour selection also increases the ability for the surgeon to perform consistently and safely with better concentration and lower risks of errors.

An ergonomic and intuitive concept

easy to use

You can control all functions quickly and intuitively via the operating panel on the light head and/or the wall:

- On / off switch
- Illumination
- GuideLite™
- Light field adjustment
- Color Select

With a centrally mounted sterilizable handle and a rail that runs around the lighthead, positioning for correct illumination is easy. Integrated inside the handle, a sensor system allows the lighthead position to be adjusted without unwanted alteration to the light field spot size. With 360° along three axis and feather light positioning control the lighthead is very easy to move.

reliable



A compact design

giving you more space to move

The flat and compact design is optimal for LED light sources and guarantees excellent illumination of the entire surgical field. The enclosed design and smooth surface make hygienic cleaning simple and reduce flow turbulence.

Reliability

lower costs

With 25,000 hours of service life these long lasting light sources have especially low maintenance requirements. Mechanical malfunctions in the lighthouse can be entirely ruled out as light field adjustment is purely electronic. High quality LED optics and materials together with the proven BERCHTOLD standards of quality make CHROMOPHARE® LED an extremely reliable surgical light.

The technology

	CHROMOPHARE® E 778	CHROMOPHARE® E 558*
Light head diameter	78 cm	58 cm
Intensity	80 - 160,000 Lux	60 - 120,000 Lux
Light field diameter	15 - 29 cm	15 - 29 cm
Light field depth (L1+L2)	75 cm	85 cm
Colour rendering index (Ra)	94	94
Colour temperature (default)	4,500 K	4,500 K
Color Select (optional)	3,600 - 5,000 K	3,600 - 5,000 K
GuideLite™	Default	Default
Lights	168 LEDs, warm / cool white	72 LEDs, warm / cool white
Average LED service life	25,000 hrs	25,000 hrs
Light head power consumption	< 290 W	< 230 W
Radiant energy	3.7 mW/m²lx	3.7 mW/m²lx
Electricity	100/120/127 V(AC), 220/230/240 V(AC)	100/120/127 V(AC), 220/230/240 V(AC)
UL listing, CE	Yes	Yes
ChromoVision® 1 C	Optional	Optional

Measurements as per EN 60 601-2-41.

All technical lighting data max.+/- 10% tolerance.

* Available in the 1st quarter of 2009.

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For over 85 years, BERCHTOLD has been a specialist in equipping surgical theatres. We offer best-in-class products, global experience in planning and project management, and individual service. Our products and services include:

- CHROMOPHARE® surgical and examination lights
- ChromoVision® video and camera systems
- ChromoView™ monitor arms
- OPERON® operating tables and accessories
- ORICS® telemedicine
- SUPERSUITE® all-round, customised OR solutions
- TELETOM® ceiling supply units
- 3D-OR™ design software
- Development, consulting, project management
- Service and installation by the best-trained specialists

We look forward to hearing from you and helping you in planning and undertaking your next OR equipping project.



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80783/M-C/A/11.2008