



ChromaZona

Ergonomic lighting

Improved screen display, reduced fatigue, and increased safety



Zone-divided, colored light enhances work environment and quality

Chroma Zona Ergonomic Light is a zone-divided, colored, and white light solution designed for operating rooms and examination rooms with screen work.

The lighting solution combines red and green tones of light to reduce fatigue and eye strain, resulting in documented improvements in quality and patient safety.

The light concept is tailored to the users' needs in each room, with customized light settings for selected zones and workflow before, during, and after procedures.

Chroma Zona Ergonomic Light was developed in 2006 by Chromaviso, a company specializing in health-promoting lighting for the healthcare sector. The light concept is implemented in over 130 hospitals throughout Scandinavia.

Benefits of ergonomic lighting

With the right lighting, we create a better working environment for the staff and provide favorable surroundings for the patients.

- Minimizes reflections and glare on screens - optimizes screen display and work environment
- Reduces eye strain and tension
- Decreases fatigue and improves concentration for surgeons
- Zone-divided lighting provides appropriate illumination for all professional groups simultaneously
- High user satisfaction and user-friendly operation
- High-quality LED fixtures calibrated to ensure accurate color rendering in relation to room conditions
- Based on over 16 years of experience, latest knowledge, and user documentation from over 3000 installations.

BEFORE SURGERY

Warm light calms the patient



DURING SURGERY

Green light and red light for optimal screen display and environment



AFTER SURGERY

Intense white light for cleaning purposes



Results of user survey

Ergonomic Lighting is an important part of the user's everyday life

- 92%** Users utilize Ergonomic Lighting daily or frequently
- 81%** They stand in Ergonomic Lighting for 2-8 hours daily (40% stand in the light for over 5 hours daily)

Promotes work environment and quality

- 95%** Less screen reflection
- 95%** Clearer contrasts on screens
- 89%** Better visual conditions for all work functions
- 65%** Reduced fatigue (85% among surgeons)
- 75%** Increased concentration (92% among surgeons)
- 68%** Increased safety
- 89%** Improved quality (92% among surgeons)

The ergonomic settings are important for the user

- 97%** Experience value in having the light tailored to the room's work
- 92%** Cleaning or daylight
- 92%** Zone-divided lighting
- 93%** Flexible lighting (before-during-after)
- 92%** Patient lighting
- 93%** Colored light (red-green)

User-friendly operation



- 97%** Are satisfied or very satisfied with Ergonomic Lighting
- 92%** Would recommend Ergonomic Lighting to others
- 92%** Find the operation user-friendly

User survey among 30 hospitals in Denmark.

“We spend many hours in a row in surgeries. I feel less tired in the new light, and my eyes are less strained. It makes a big difference”



“I can see the structures better in the images and my eyes feel more relaxed“



“Good work lighting makes a difference in being able to perform optimal work”



Zone-divided lighting provides optimal lighting for all professional groups simultaneously

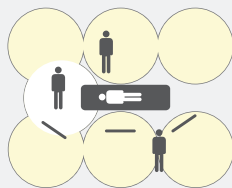
The system is flexible, and we have the ability to adjust the lighting to the specific situation. It is also easy to use and switch the lighting.

Chromaviso divides an operating room into lighting zones tailored to different work functions.

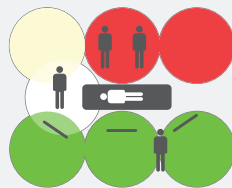
Examples of zones:

- White light for anesthesia - good light for reading, writing, and examining the patient
- Colored light
 - **green light:** green light behind the screen improves image quality, minimizes reflection, and reduces eye strain
 - **red light:** minimizes glare and reflections on the screen and enhances grayscale in X-ray images.
- White spotlight for medication cabinet and for venipuncture
- Open surgery - strong white light zones around the sterile field to minimize glare.

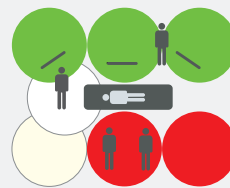
Patient in/out



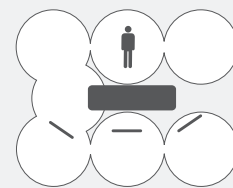
Procedure 1



Procedure 2



Open surgery

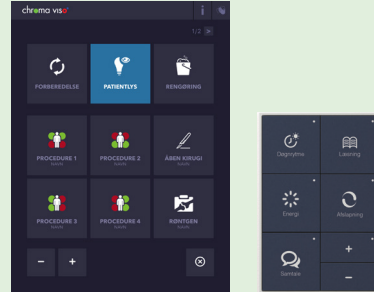


User-friendly operation

Up to 9 settings

The light is operated via a specially designed control panel, making it easy and quick to change light settings.

It is possible to operate the light both inside and outside the sterile field, as well as to interface with other systems.



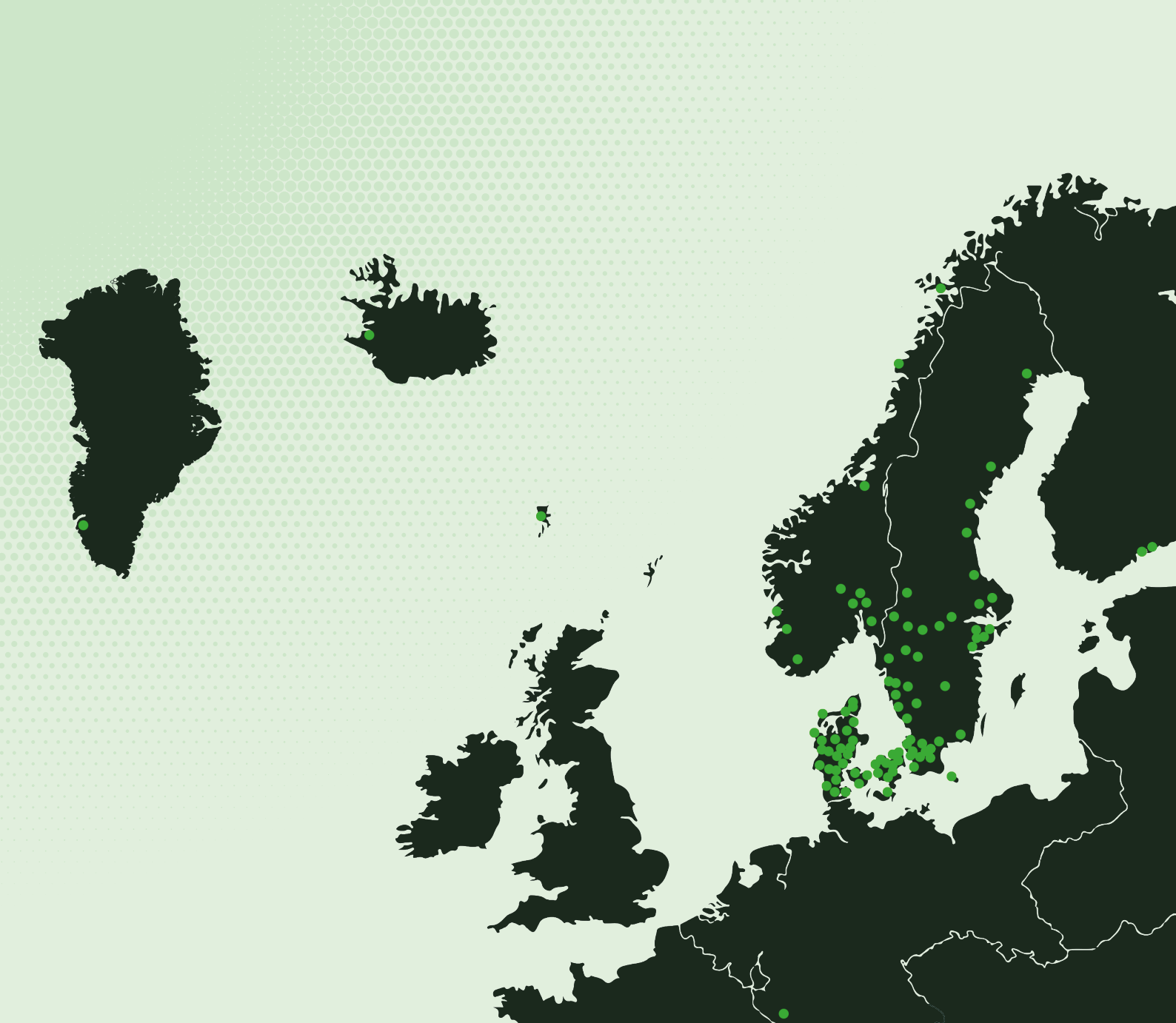
Ergonomic lighting is used here

Chroma Zona Ergonomic Lighting is the preferred lighting for operating rooms throughout Scandinavia.

A selection of hospitals includes:

- Rigshospitalet
- Aarhus University Hospital
- Sygehus Lillebælt
- Odense University Hospital
- Hospital Sønderjylland
- Holbæk Hospital
- Aalborg University Hospital
- Centralsjukhuset Karlstad
- Södersjukhuset, Huddinge, Karolinska
- Östra Hospital
- Skånes University Hospital
- St. Olav Hospital
- Helsinki University Hospital
- Rigshospitalet Oslo





CONTACT US

+45 72 40 60 07 | info@chromaviso.com

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