

Chroma Zona

Evidence-based Ergonomic Lighting at Sygehus Lillebælt, Vejle

Ergonomic Lighting in the Department of Radiology and Imaging

With custom-designed lighting and a control system for ultrasound, control and reading rooms, fluoroscopy, and injection rooms, the Radiology and Imaging Department has improved the working environment for the staff and created calming surroundings for the patients.

Colors distract the mind and create calmness

“We work for many hours in front of the screen, so here we had the opportunity to do something for the working environment. We have colleagues who talk about less fatigue and fewer headaches after the introduction of the new lighting,” explains Torben Sørensen, Chief Physician. With Chroma Zona ergonomic lighting, the department has the opportunity to use colored and white light settings, specifically designed for the department’s needs and workflows.

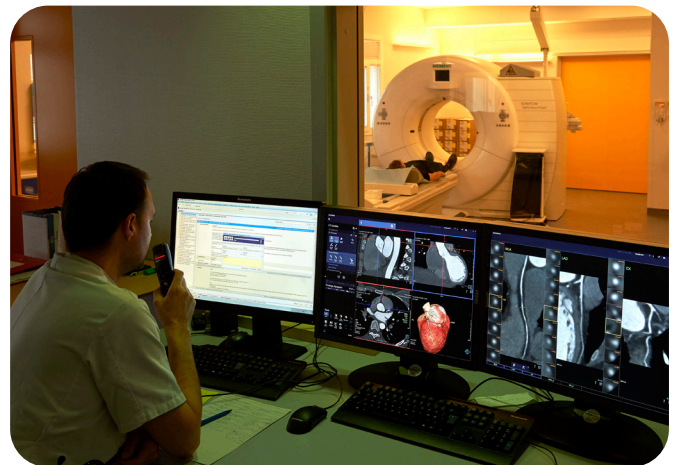
“The colored light highlights contrasts and details in the images. The light is tailored to our various radiological procedures” explains Jens Thagaard, Project Manager and Specialist Radiographer.

Flexible and intuitive lighting

The lighting is controlled by a user-friendly operating system on the wall.

“The light settings make the room dynamic and the patients experience a natural flow in the procedure. Simultaneously the staff can vary the lighting during their shift. It is very flexible and easy to use.”

Jens Thagaard, Project Manager



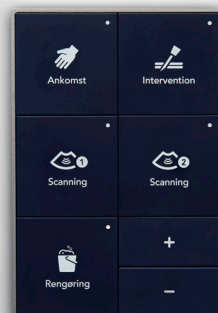
Consultation and Customization

The solution is the result of a carefully planned process where Chromaviso has engaged in multiple dialogues with the department’s staff to understand their needs and workflows. Chromaviso has provided guidance on the lighting design for room categories and custom-designed light zones for individual workstations and functions.

The controls are also tailored to the radiological environment, and the department has actively participated in developing intuitive icons and texts for the panel.

Ultrasound

The patient arrives in a warm light which creates a sense of tranquility in the room. During the scan a calming pink light is used that enhances the grey tones in the image. A bright white light is used for cleaning and emergency situations.



Control and reading room

Chroma Zona ergonomic lighting separates the room in different light zones that caters to the tasks performed at the various workstations.

Multiple settings make it easy for the staff to adjust the lighting depending on the image on the screen. It is possible to control the lighting individually for each zone.



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I primarily use the green light when looking at the screen. It is comfortable, and I can see the image and contrasts more clearly. I can also take notes on my paper. There is less glare, and the grayscale in the images stand out better.



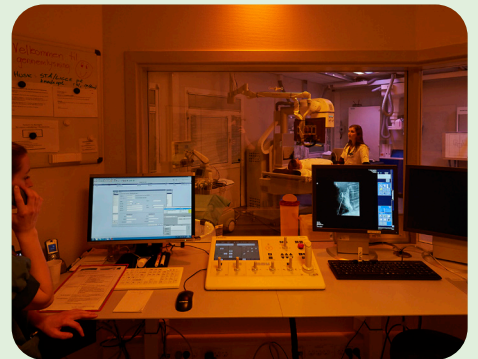
Fluoroscopy and injection rooms

In the fluoroscopy room, tasks vary, and multiple professional groups need to be accommodated simultaneously. Therefore, the zoning of the lighting is important.

During X-rays, the specially adapted red light above the table helps to see the screen image more clearly, while the radiographer requires white light for preparation.

During interventions, there is a need for a well-lit white zone above the table, while the rest of the lighting is calming for the patient.

In the injection room, a specially designed venipuncture light illuminates, highlighting the veins.



About Chromaviso

Chromaviso is changing the standards of lighting to improve health, treatment quality, care, work environment, and efficiency within the healthcare sector. Through technological innovation and close collaboration with healthcare professionals, we create and apply integrated and highly preferred lighting solutions with proven effectiveness.

Learn more at

www.chromaviso.com, [LinkedIn/Chromaviso](https://www.linkedin.com/company/chromaviso), [Youtube/Chromaviso](https://www.youtube.com/channel/UCv8v8v8v8v8v8v8v8v8v8v8) or [X/Chromaviso](https://twitter.com/Chromaviso).