

A Helvar Case Study

Hospital Nova Finland

Helvar

Finland's largest hospital project, Hospital Nova, installed with Helvar's intelligent lighting controls



Hospital Nova located in Kukkumäki, Jyväskylä is the first central hospital built in Finland in the 21st century. It is among the largest hospital projects in Finland and the county's largest public investment. The design of the hospital began in 2011 and was completed in 2020. Hospital Nova benefits from 360 examination and reception rooms, 24 surgery rooms and 10 delivery rooms.

Helvar assisted in both the design and implementation phases. Hospital Nova wanted lighting that would improve

patient comfort and staff work without compromising on energy efficiency. "People are always the starting point when we design our solutions. At Hospital Nova, Helvar solutions and services are used to create intelligent spaces designed for wellbeing which are easy to service and maintain with different systems working together seamlessly" explains Jukka Riikkula, Sales Director, Helvar Oy Ab.

Helvar's energy-saving system responds to both light level fluctuations and seasons. In this way, all of the refreshing and health-promoting features of good light were made available to Hospital Nova while at the same time creating appropriately lit, wellbeing-supporting facilities.



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Intelligent Hospital of the Future
Nova Hospital has access to the full range of Helvar lighting control solutions, whether router-based or wireless and Helvar's expertise and experience in intelligent buildings' various requirements. "Such a solution has not been implemented so widely anywhere in Finland before. Because our system is freely programmable, the customer can tailor what they want from the lighting. We can bring out everything else that can be accomplished with modern intelligent lighting control and automation" expresses Jukka Riikkula.

DALI controls all indoor, and outdoor lighting at Hospital Nova and the project has over 30,000 controlled DALI addresses. Controlled areas include patient rooms, corridor lobbies, operation theatres, helicopter landing areas and outdoor lighting. There is also lighting art in the main entrance lobby

"Helvar offers us great tools for managing lighting. One of the greatest benefits is having an immediate overall view of the system with Helvar Insights. The hospital floorplan is also integrated in Insights so if we have let's say a driver failure, Insights shows me exactly where it is located, which saves hours searching time. I know right away if a router is down or there is a ballast offline. Overall, our maintenance has become more efficient with Insights, and most of it can be done before users or patients have even noticed anything."

Antti Lehtinen
Electrician, Hospital Nova

where there is DALI controlled colour lighting. "Nova Hospital is one of the most advanced and newest hospitals in the world. It's one of the first cloud-based, fully monitored projects of its size. Online controlling is fully protected at a high level, but at the same time, it's very user friendly, providing all control possibilities using a computer, tablet or mobile phone" explains Jukka Riikkula.

The hospital is installed with the latest Helvar Insights, which automatically monitors the system's status 24/7 and notifies maintenance engineers of any faults that require attention.

"Helvar Insights further enhance

energy efficiency and energy savings and bring a new kind of efficiency to the hospital by monitoring the occupancy rate of the property. Hospital Nova is now able to get even closer to a people-centred service by understanding how their facilities are used. By understanding people's movements and how spaces are used, the lighting can be adjusted to save energy as the system can detect the most optimal lighting setting of all based on the collected data" describes Ilkka Mäkelä, Global Service Sales Director, Helvar.

Photography:
Tuomas Uusheimo

