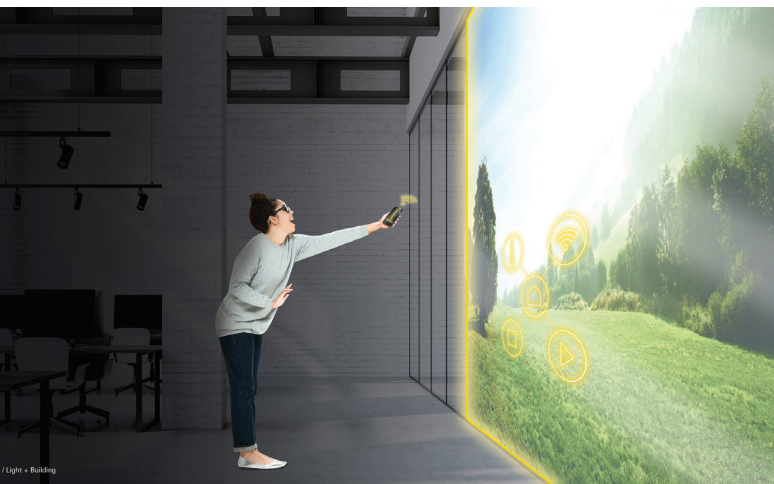


Efficient, digital and safe light

„Light & Design“ is one of the three top themes of Light + Building 2022. Even if various well-known manufacturers are not represented as exhibitors this time due to pandemics and deadlines, visitors can still expect an exciting range of lighting technology.



Since the LED has become established as a light source, light has become digital and thus controllable. This now enables digital services, among other things. System components of lighting installations with LEDs are able to output operating data. This makes it possible to monitor, analyze and optimize energy consumption. Based on the data output, maintenance requirements can also be identified in advance and maintenance cycles can be adapted to system usage.

Lighting and energy efficiency

Buildings are responsible for around 30% of Co2 emissions in Germany and the EU. That's why the issue of sustainability is playing an important role for more and more clients. This no longer applies only to the application, where, for example, energy savings of up to 80% can be achieved by refurbishing old systems from the 1980s, including presence and daylight control, as well as professional lighting design. Sustainability now also extends to the product design of luminaires, for example through the use of natural materials or the recyclability of components.

Light and safety

The issue of safety is also gaining in importance in connection with light. In addition to emergency and safety lighting solutions, general lighting can also help make workplaces safer, for example, by avoiding light-dark zones. In connection with the Corona pandemic, the disinfection of air and surfaces has come to the fore, which is possible with devices based on UVC light.

Light and health

The controllability of LEDs makes applications possible that were previously impossible or could only be realized at disproportionately high expense, such as Human Centric Lighting (HCL). This approach focuses on the physical effect of light on people. The spectral composition of light changes during the course of the day. The organism reacts to this. The high blue component in the morning has an activating and invigorating effect. Towards evening, this decreases again. The light becomes warmer, so that the person comes to rest and a natural tiredness sets in.

This knowledge is used in a targeted manner with HCL - in each case in relation to the specific application or visual task. If it is a matter of learning situations in schools or universities, it is a matter of the ability to concentrate, which light with a higher blue content positively stimulates. Similar light is also needed in hospital treatment rooms. The recovery of the sick, on the other hand, requires warmer light in order to recover well. Different target groups also have different requirements. For example, older people need more light than younger people.

Light and more

Today, luminaires can also perform tasks that go beyond actual lighting. Since luminaires are present almost everywhere in buildings, they can serve well as carriers for sensors, for example, to measure and evaluate customer frequency in stores and, for example, adjust personnel control accordingly. Additional benefits can also be generated in outdoor lighting. Sensors in luminaires and poles can help people find parking spaces, WLAN antennas can provide wireless Internet access, and charging facilities for e-bikes and electric cars can be added.

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