

# Press Release



**TRUMPF Group**  
**Press and Public Relations**

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**Hall 3, Booth F30**

## **Highlights for patients, physicians and attendants**

Light can heal if used correctly. But too much or the wrong light can also delay patient healing and disturb care givers' workflows. The purpose of an innovative concept from TRUMPF is to help light be used more effectively in the OR and the ICU.

Patients are frequently exposed to extreme lighting situations, especially in the ICU. In addition to other physical stress factors, lighting is often a hindrance to patients' speedy recovery, a fact proven in a study conducted by the Friedrich-Wilhelms University in Bonn, Germany. Bright lights that are constantly on disturb the patients' natural circadian rhythms just as much as the frequent monitoring of their vital functions, which is also done at night and usually requires turning on all the lights. Most patients lack private space and the chance to be alone. More than one-third of intensive care patients suffer from depression, anxiety and confusion often after only two to five days.

Based on findings concerning the biological and psychological influences of light, TRUMPF has developed a new and unique lighting concept. "AmbientLine" focuses on the patient and makes the work of the physicians and care givers more ergonomic. For the new lighting concept, TRUMPF has expanded its ceiling pendants to include LED lighting elements. A flexible ceiling pendant has indirect ceiling and floor lights which are mounted onto its arms and head. These lights are easy to turn on and off, even from the door. This helps attendants get to a patient's bed easily without waking up other patients since all the lights in the room don't have to be turned on. A special LED light designed for platforms and drawers allows

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for easy and secure access to necessary instruments, even in the dark. In an emergency, all lights can be turned on to maximum brightness at the press of a button.

The colour of the floor and ceiling lights used in the OR can also be adjusted. This feature can be beneficial, especially during minimally invasive surgery because the soft, colourful ambient light relieves eye strain. Physicians' eyes do not have to continually adjust between light and dark, and images in monitors appear clearer with better contrast. All current TRUMPF pendant models can also be retrofitted to include the new lighting concept.

TRUMPF is currently studying additional light functions, including a new kind of sail light mounted above the patient, and indirect wall lighting designed to promote patient well-being and recovery or even support colour therapy. The sail mounted above the bed allows photos, films or websites to be projected. This opens up communications and information options for patients and therefore a kind of private space. Lights integrated into the ceiling pendant are specially adjusted to various zones of the bed to aid in exams and treatments. A glare-free reading light for the patient is also integrated into the system. Additional features and lighting functions have not been ruled out.

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