

TruLight 5000:

Light
where
it's needed



The intelligent LED surgical light.

Machine tools/Power tools
Laser technology/Electronics
Medical technology



Precision without compromise.

TruLight 5000 – the ideal combination of comfort and power.

Our engineers and designers are dedicated to and motivated by their goal of recognizing requirements early on and finding innovative solutions. This results in products that set standards today for the operating room environment of the future. The result is a new generation of highly efficient TruLight 5000 surgical LED lights, a generation which has innovative properties to satisfy exacting customers!

In addition to flexibility and energy efficiency, the new TruLight 5000 has improved lighting characteristics with an extremely high level of user comfort. This translates into a higher illumination level of 160,000 lux, innovative possibilities for the sterile control of lighting functions, and optimum light distribution, thanks to Adaptive Light Control Plus technology.



Wolfartklinik Gräfelfing / Munich

Lightweight, slim, and unique.

The TruLight 5000 surgical lighting solution won a **Good Design Award** in the “Medical” category for its combination of efficient LED technology, slim design, and simple use.



TruLight 5000 – experience value.

Intelligence

Constant illumination: Thanks to Adaptive Light Control Plus technology, TruLight 5000 automatically ensures constant illumination at different working distances.

User comfort

Intuitive operation: Sensors allow the user to adjust the lighting intensity with the sterile handle.

Efficiency

High level of efficiency: The use and unique positioning of innovative LEDs within the light head ensure minimal heat build-up and a high light output.

Environmentally friendly

Making a contribution: Powerful LEDs and a highly efficient lighting system minimize energy consumption. In addition, the use of toxic elements during the manufacturing process is eliminated.

Flexibility

Can be used anywhere: The flat, compact light head enables the efficient use of space (critical in low ceiling height applications and hybrid rooms) and, thanks to an LAF-optimized design, ensures the highest level of hygiene during operation.

Communication

More than just light: The integration of video systems for high-definition digital transmission provides an optimum communication platform.

Perfect interaction.

Cutting-edge technology in the spotlight.

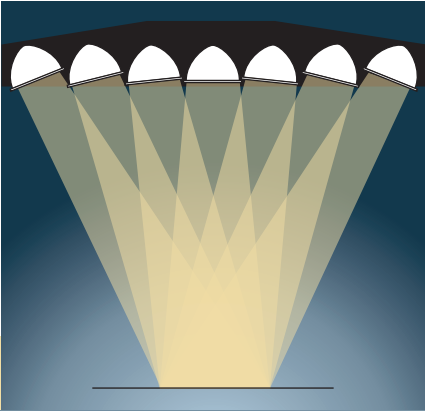
The optical TruLight 5000 lighting system is based on extremely intensive research and many years of experience in LED technology, lens geometry, and LED elements positioning within the light head. The result is a highly sophisticated, multi-lens matrix that guarantees excellent lighting quality.



Extremely high energy efficiency: With an illumination level of 160,000 lux, a power consumption of 65 watts, and a lighting system with an unrivalled light output, TruLight 5000 is one of the most efficient surgical lighting systems in the marketplace.

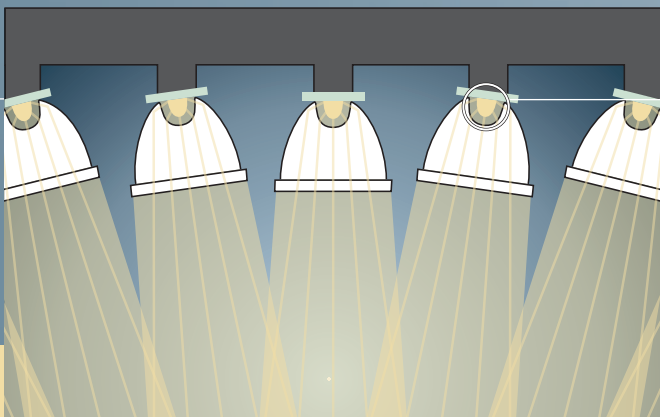
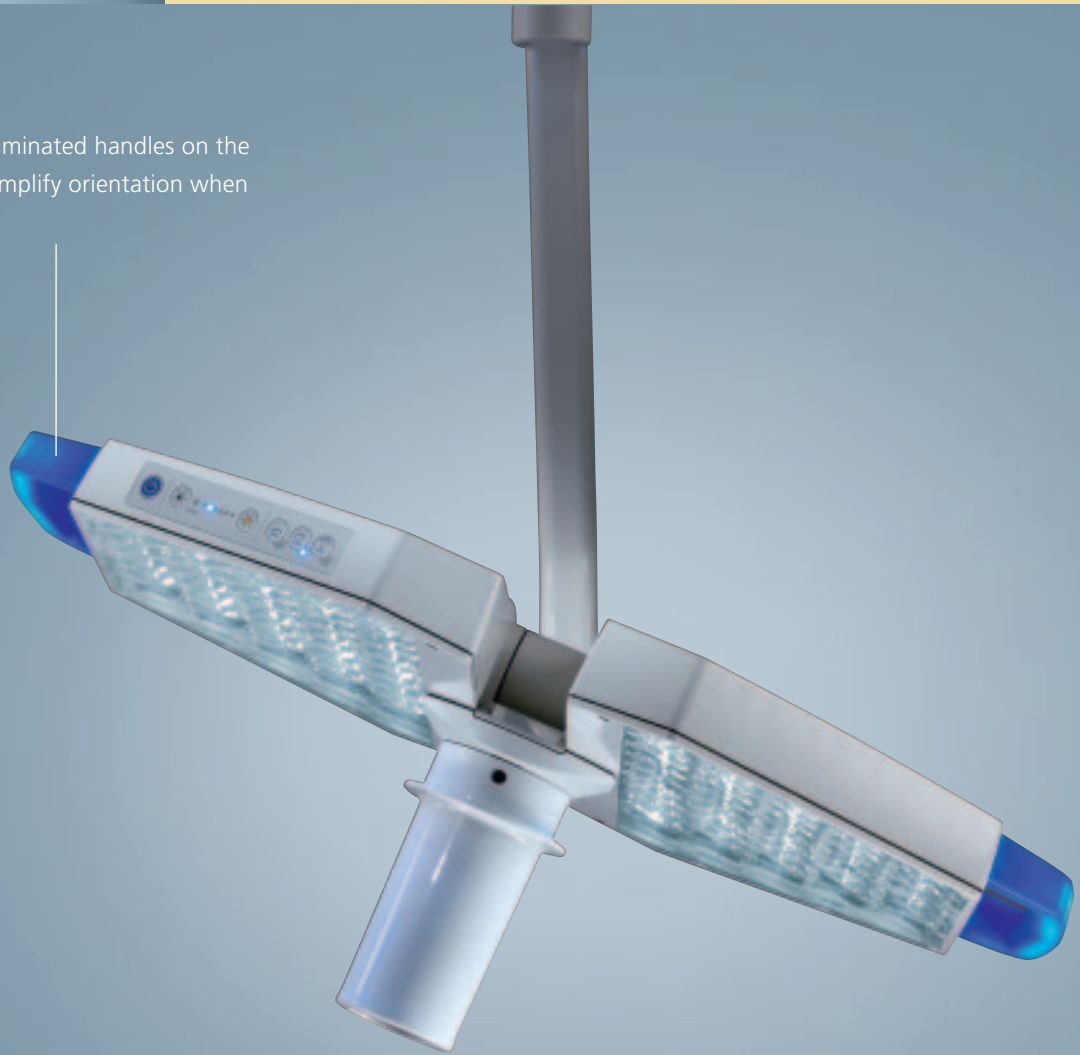
Light where it's needed: There is no need to make adjustments to the TruLight 5000 system during a surgical procedure. The Adaptive Light Control Plus technology measures the distance to the operative field and adjusts the illumination level in line with the current working distance.

A flexible combination: Depending on the working distance, Adaptive Light Control activates certain groups of lenses in the multi-lens matrix. The activated lenses provide optimum illumination, thanks to their angle and position in the light head.



Focused illuminating power: The positioning of the LEDs within the light head enables the precise direction of rays of light with minimal shadowing effects in the operative field area. This ensures the homogenous distribution of light throughout the different planes of illumination.

Really practical: The illuminated handles on the outside of the housing simplify orientation when working in endo mode.

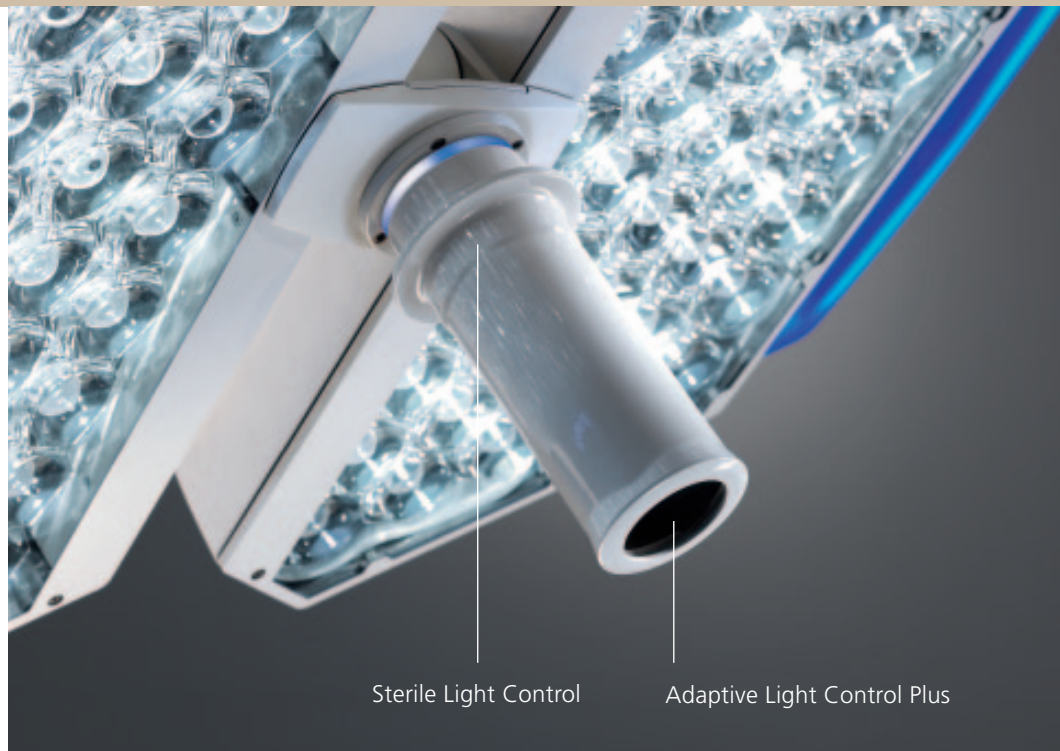


Optimum light output: The intelligent, multi-lens matrix is based on individually embedded LEDs in TRUMPF-designed convergence lenses. Because the LEDs are completely surrounded by the lens, all the light from each individual LED is directed to the surgical site.

Maximum user comfort.

A world first: Adaptive Light Control Plus.

Adaptive Light Control Plus (ALC Plus) ensures optimum lighting of the surgical site. If the TruLight 5000 is moved during surgery, the integrated motion detector automatically measures the distance to the wound area and accurately adjusts the lighting so the surgeon can concentrate completely on the patient.



Sterile Light Control

Adaptive Light Control Plus



Sterile Light Control.

Noticeably easy: Dimming with Sterile Light Control.

TRUMPF also demonstrates its innovation capabilities in its new Sterile Light Control (SLC) concept for adjusting light intensity. The integration of capacitive sensors on the sterile handle of the light head means that the surgeon can quickly and intuitively control the lighting during surgery.





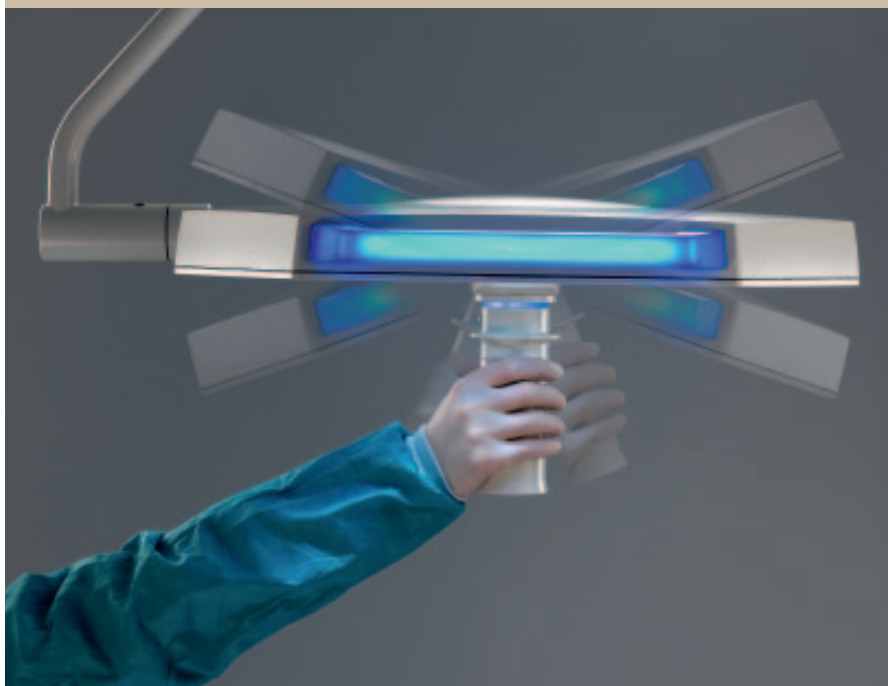
Adaptive Light Control Plus.

Ease-of-use and simplified positioning.

In addition to the central sterile handle, TruLight 5000 has non-sterile outer handles with integrated LEDs for improved “visibility” in endo mode. In addition, there is a control panel integrated into the outside of the light head to provide non-sterile control at the light head (e.g. Emergency Department or Trauma applications).

Its efficient equipment and compact design make TruLight 5000 a lightweight surgical lighting system. It is easy to position and readily adapts to the requirements of the surgery being performed.

Simple Positioning thanks to lightweight light heads.



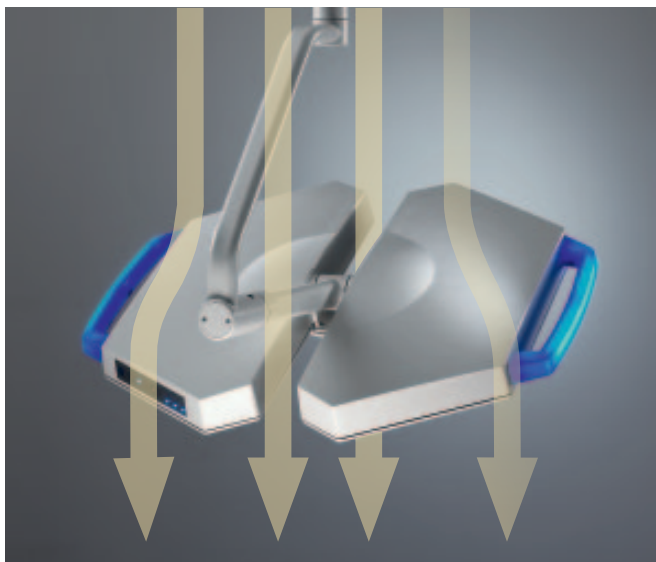
Extremely flat design for superior hygiene.

The sophisticated heat management system ensures efficient and even heat dissipation within the light head. It prevents spot overheating and makes a significant contribution to the longevity and efficiency of the LEDs by reducing heat levels.

In addition, thanks to the low levels of heat generation, the air flow-optimized housing is ideal for clean room ceilings (laminar air flow). The open and compact design reduces the flow surface beneath the air-handling ceiling. At the same time, the cool light head minimizes uplift effects and turbulence.



Heat distribution on surface of light head housing.



Ideally compatible with air-handling ceilings, thanks to its open design.



TruLight 5500/5300 can be combined with various VidiaPort/TruVidia solutions.



Sophisticated communication in a new light: TruLight 5000.

For TRUMPF, value means setting new standards. For this reason, the innovative TruLight 5000 surgical lighting portfolio offers the integration of high-quality camera solutions – with digital SD to True HD and HD-quality communication via LAN networks and the Internet.

With a choice of integration in the light head or on a separate arm, the cameras can be quickly and easily installed and/or removed, depending on the application. This design is an ideal platform for research, teaching, and documentation purposes.

For more information on the innovative TruVidia camera system, see our product brochure.



Progress over its peers.

All TruLight 5000 models with the TruVidia camera solution are automatically fitted with the new Adaptive Light Control Plus technology.

The specialist:
The wall-mounted version of the TruLight 5000.



The compact solution:
The low-room version of the TruLight 5000.



As flexible as your requirements.

Thanks to a diverse scope of application, TruLight 5000 offers real investment protection: Three different configurations enable the flexible use of the surgical lighting system in various spaces and its optimum application in different surgical situations.

Low-ceiling version.

This version of the TruLight 5500 is a great alternative to the standard configuration. Because of its flatter design, it allows personnel freedom of movement, even in rooms with lower ceiling heights.

Mobile version.

The mobile version of the TruLight 5000 enables unrestricted usage possibilities throughout the hospital (for use as back-up in an operating room, Labor & Delivery, when moving to a different location, and in emergencies).

Wall-mounted version.

The wall-mounted version is suitable for special infrastructure requirements, and for work processes where either a traditional ceiling-mounted system is impossible, or where space constraints make the mobile version not ideal.



The perfect companion:
The mobile version of the
TruLight 5000.

An overview of the various TruLight models:

	TruLight 5500	TruLight 5300
Central Illuminance (lux)	160,000	130,000
Light Field Diameter (cm/in)	20/7.9	20/7.9
Color Rendering Index (Ra)	93	94
Color temperature (K)	4,500	4,500
Dimming range (%)	5–100	5–100
Power consumption of light head (W)	65	60
LED life expectancy (h)	> 30,000	> 30,000

Meeting the most stringent requirements.

Even during the development and production phases, TRUMPF meets the most up-to-date quality standards as per DIN EN ISO 9001. In order to fulfill the high demands placed on the lighting quality, the LEDs are installed in clean room conditions.

At the same time, TRUMPF utilizes comprehensive testing for the entire system to ensure that products deliver what they promise: Extremely efficient surgical LED lighting that meets the most stringent requirements.



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