





CLEAR VISUALISATION FOR BETTER RESULTS



Clear Visualization For **Better Results**

Leds offer better shadow control compared to conventional halogen bulbs. Halogen systems consist of a single bulb and multidirectional reflectors. Unfortunately, each direction requires a different setting and a different distance from the bulb. These differences may lead to unwanted "hot" and "cool" spots in the light pattern. A typical LED end-piece focuses LEDs at a single point. During this process it forms a block in order to avoid overlapping LEDs, therefore, LED points are round and consistent. There is no shadow cast on the patient during the surgery as the surgeons move in the lighted area. This can be tested with the surgeon moving their hands between the lamp and the operated area.

| Performance | Units | LD5S | LD4S |
|------------------------------------|----------------------|------------------------------|-------------------------|
| Technology | - | LED | |
| Lighting at the center, Ec@ 100 cm | lx | 160.000 | 120.000 |
| Number of LEDs | pcs | 60 | 48 |
| Light field diameter | mm | 220-320(adjustable 5 steps) | |
| Light field depth L1+L2 (@60% Ec) | mm | 600 | |
| Colour Renderig Index (CRI Ra) | - | min.90 (typ. 95)(R9: typ.90) | |
| Colour Temperature | K | 4.500 | |
| Electircal dimmability from/to | lx | 60.000-160.000(6 steps) | 40.000-120.000(6 steps) |
| Light parameters control | - | 5" TFT LCD Touch Panel | |
| Service life | hrs | >54.000 | |
| Handle | - | Removable and sterilizable | |
| Temperature increase in head area | С | <1 | |
| Rotation | o | 360 | |
| Radiant energy | mW/m ² lx | <3.4 | |
| Shadowless | - | %99 | |
| Endo light mode | - | yes (adjustable 5 steps) | |

Electical Data

| Power supply input voltage | V | 100-240 VAC / 120-360VDC / 24VDC Backup or Battery | |
|--------------------------------|-----------|----------------------------------------------------|----|
| Frequency of AC input voltage | Hz | 50-60 | |
| Power Consumption at Lighthead | W @ 24VDC | 60 | 50 |

Mechanical Data

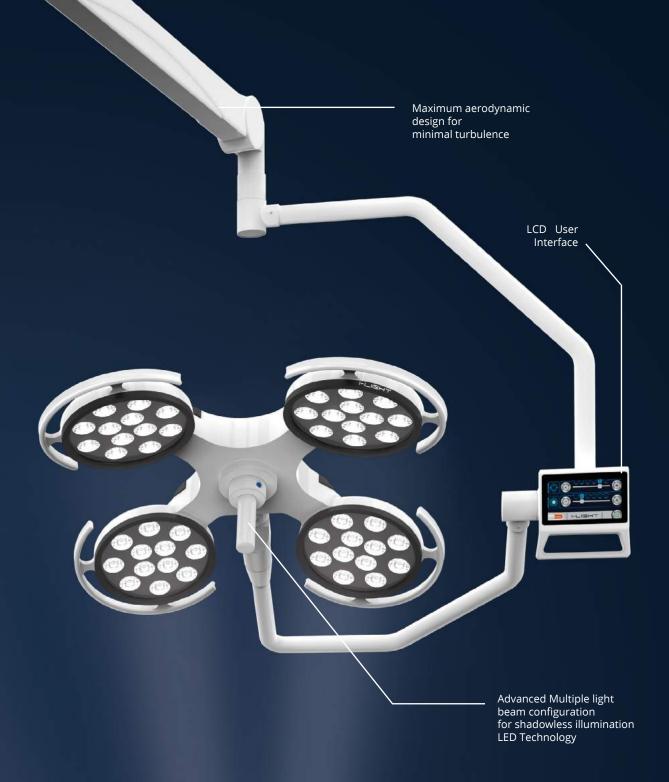
| Light head weight | kg | 19 | 17 |
|------------------------|----|-----------------------------------------------|----|
| Diameter of light head | mm | 770 | |
| Housing | - | Aluminum Alloy | |
| Design | | Aerodynamically designed for Laminar Air flow | |
| Glass | - | Tempered Crystal Glass | |
| IP protection class | - | IP44 | |





Clear Visualization For Better Results

Aygün is furthering a number of R&D projects simultaneously thanks to its advanced R&D infrastructure, team of engineers and technical personnel specialized in their field. Thus, the company holds many patents and models actively used in the medical sector.



- Multiple Light Beam Configuration for Shadowless Illumination
- Improved Beam Technology
- No flicker effect
- Quality Light
- Super Optical Performance
- 5" TFT LCD Touch Screen Panel

- Memory function
- Easy to clean
- Endo Mode
- Ergonomic and practical design
- Laminar Air Flow
- Quick and comfortable usage
- Extra Protection



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Quick and Comfortable Usage

Thanks to sterilizable handle, surgeon can do reposition easily and change the lighting field and ENDO mode quickly.



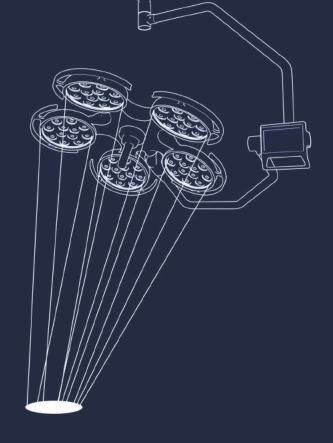


Multiple Light Beam Configuration for Shadowless Illumination

I-LIGHT boasts the ideal design for shadowless illumination thanks to its precise multiple light beam configuration.

Improved Beam Technology

Special lens technology designed for surgical lighting fully compatible with LED, provides homogeneous light field; when the light field is changed, the light intensity does not change.







Quality Light

Special alloy body design and LED driving technology minimize the heating of the light head. High quality LEDs with the lowest infrared or ultraviolet emissions, protects the patient from drying out of the tissue and provides a high quality working condition with the constant high-class lighting temperature to the operator.



No flicker effect

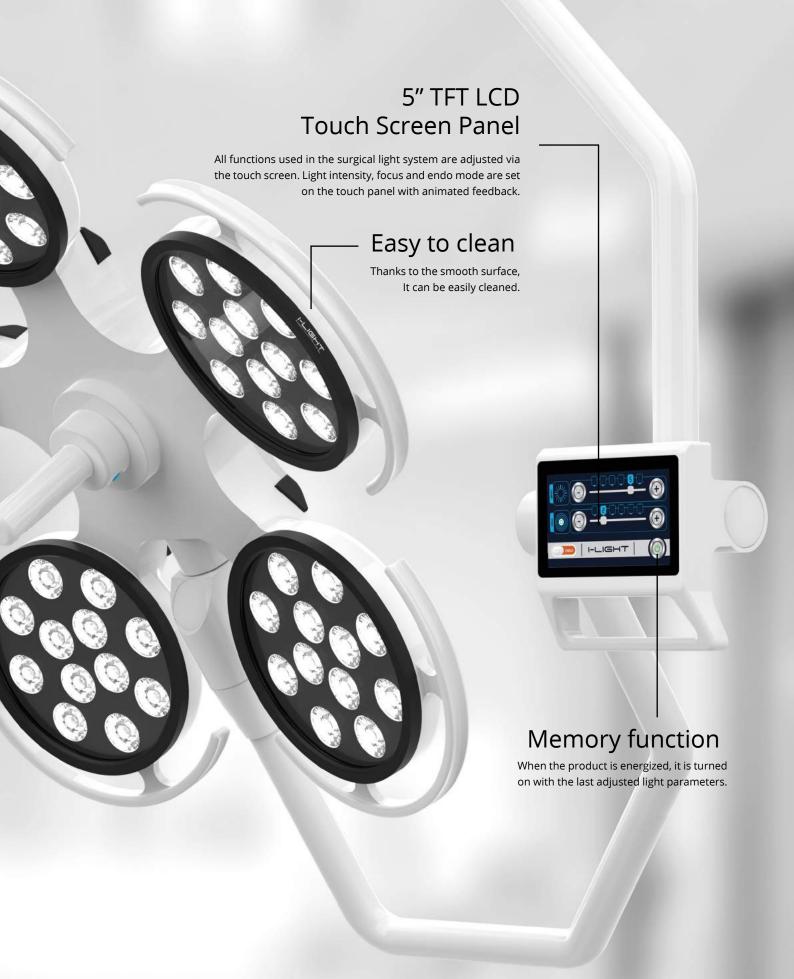
Thanks to the smooth LED driving technology no flicker effect is generated. Flicker effect can cause eye strain, headaches, blurred vision. Also light flicker causes corruption in photos or videos.



Super Optical Performance

Lighting functions are governed by microcontroller based electronic systems. By ensuring perfect LED and Lens compatibility, light quality is improved. By designed protected LED module, safer lighting is provided in case of failure of any LEDs the other LEDs are not effected. Each LED module can be replaced independently of the others and also they can be reached easily thanks to the independent Glass cover design of the Light head.









Endo Mode

Provides the environment lighting necessary for endoscopic surgery with only one button and the system is switched back to the last surgical lighting settings with only one button.

