

Datasheet iLED™ 7 Surgical Light

The World in a New Light



Features

| | |
|---|---|
| Adaptive Light Control Plus (ALC plus) | X |
| Sterile Light Control (SLC) | X |
| Compatible with 3D HD Camera | - |
| Automatic Light Condition and Shadow Management | X |
| Adjustable Color Temperature and Pattern Size | X |
| Preparation for Wireless HD Camera Technologie | X |

Registration Data

| | |
|----------------------|--------|
| Classification (MDD) | 1 |
| Classification (FDA) | 2 |
| Mark of Conformity | CE, UL |

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Flyer ID: 2070391, February 2018

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Lighting Data

| | |
|---|-----------------------|
| Illumination Level at 0.8 m (Lux) | 160,000 |
| Illumination Level at 1.0 m (Lux) | 160,000 |
| Illumination Level at 1.3 m (Lux) | 160,000 |
| Is there an automatic adjustment of illumination level when adjusting pattern size? | yes |
| Is there an automatic adjustment of illumination level when adjusting the working distance? | yes |
| Is there an automatic adjustment of illumination level when adjusting color temperature? | yes |
| Dimmable from / to | 100 – 30%; < 10% endo |

| | |
|---|-------------------------------|
| Pattern Size (d10) at 1.0 m (cm) | ca. 16 - 25 (6.3" – 9.8") |
| Pattern Size | ca. 16 – 30 (6.3" – 11.8") |
| Illumination Level at 1.0 m (Lux) | 160,000 |
| d50 / d10 ratio | ≥ 0.5 |
| Color Temperature (K) | 3,500 / 4,000 / 4,500 / 5,000 |
| Color Rendering Index Ra | max. 97 |
| Color Rendering Index R9 (blood) | max. 96 |
| Color Rendering Index R13 (skin) | max. 99 |
| Irradiance (W/m ²) ¹ | 623 |
| Irradiance / Intensity Ratio (mW/m ² lx) | 3.84 |

Depth of Illumination

| | |
|---|-------------------------|
| Depth of Illumination (L1 + L2) at 20% Ec / 2 nd Edition (cm) ² | 193 (76") with ALC plus |
| Depth of Illumination (L1 + L2) at 60% Ec / 3 rd Edition (cm) ² | 109 (43") with ALC plus |
| Average Service Life of the LEDs (h) | 60,000 |

¹ In a Distance of 1.3 m at 160,000 lux.

² For illumination of 160,000 lux at a distance of 1.0m.
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Remaining Illumination with Shadow Management

| | Small Pattern | |
|---|----------------------------------|-------------------------------|
| Remaining Illumination with 1 Mask (Lux) | 92 % | 147,200 |
| Remaining Illumination with 2 Masks (Lux) | 68 % | 108,800 |
| Remaining Illumination with Tube (Lux) | 98 % | 156,800 |
| Remaining Illumination with Tube and 1 Mask (Lux) | 91 % | 145,600 |
| Remaining Illumination with Tube and 2 Masks (Lux) | 66 % | 105,600 |
| Comparison | Without Shadow Management | With Shadow Management |
| Remaining Illumination with 2 Masks (Lux), small Pattern Size | 49% | Factor 1.4 68% |

Electrical Data

| | |
|---|--|
| Power Pack Supply Voltage | 100 - 240 V AC 50/60 Hz |
| Power Pack Supply Voltage DC-DC Box | 22 - 32 V DC 22 - 28 V AC 50/60 Hz |
| Dimensions (mm x mm x mm) | 300 x 215 x 110 (L x W x H) incl. cover |
| Maximum Power Consumption (Total System) (VA) | < 160 |
| Voltage at Ceiling Mounting Point (V) | 48 |

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Mechanical Data

| | | |
|--|---|---|
| Light Emitting Surface (cm ²) | 1,996 (309in ²) | |
| Laminar Flow Surface (cm ²) | 3,300 (512 in ²) | |
| Area of Light Head Opening (cm ²) | 200 (31 in ²) | |
| Diameter of Ceiling Plate (square) (mm) | 340 (13.4") | |
| Light Head Size (mm) | 710 (28") | |
| Weight of Light Head (incl. cardanic)(kg) | ca. 15.5 (34 lb) | |
| Maximum Weight for Single Light System (N) ³ | 1,600 (360 lbf) | |
| Maximum Torque for Single Light System (Nm) ³ | 1,600 (1180 lbf ft) | |
| Maximum Weight for Duo Light System (N) ³ | 2,500 (562 lbf) | |
| Maximum Torque for Duo Light System (Nm) ³ | 2,500 (1844 lbf ft) | |
| Maximum Weight for Trio Light System (N) ³ | 2,800 (630 lbf) | |
| Maximum Torque for Trio Light System (Nm) ³ | 2,800 (2065 lbf ft) | |
| Maximum Weight for Quad Light System (N) ³ | 3.300 (742 lbf) | |
| Maximum Torque for Quad Light System (Nm) ³ | 3.300 (2434 lbf ft) | |
| Tandem | 1651418 | 0337326 |
| |  |  |
| Maximum Weight for Tandem Light System (N) ³ | 5,000 (1124 lbf) | 7,000 (1574 lbf) |
| Maximum Torque for Tandem Light System (Nm) ³ | 5,000 (3688 lbf ft) | 7,000 (5163 lbf ft) |

³ All values only in combination with *Trumpf Medical* pre-assembly parts.
In special cases, a project-specific clarification is required.
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Control Units

Wall Control

Dimensions (mm x mm x mm)

Flush 340 x 247 x 75 (13.4" x 9.7" x 3.0") (LxWxH)
Surface 290 x 193 x 60 (11.4" x 7.6" x 2.4") (LxWxH)

Weight (kg)

ca. 2.6 (5.7 lb)

Power Supply

Integrated Power Supply, Input 100 - 240VAC, 50/60 Hz

Wall Cut Out for Flush Version

290 x 193 x 75 (11.4" x 7.6" x 3.0") (LxWxH) [+ 5mm/ - 0mm]

Protection Class

IP42

Mobile Control

Dimensions (mm x mm x mm)

250 x 17 x 150 (9.8" x 0.7" x 5.9") (LxWxH)

Bumper Material

PU

Weight (kg)

ca. 0,7 (1.5 lb)

Protection Class

IP67

Dock Desk

Dimensions (mm x mm x mm)

205 x 110 x 25 (0.7" x 0.4" x 0.1") (LxWxH)

Weight (kg)

0.6 (1.3 lb)

Power Supply

External Power Supply, Input 100-240 VAC, 50/60 Hz

Protection Class

IP22

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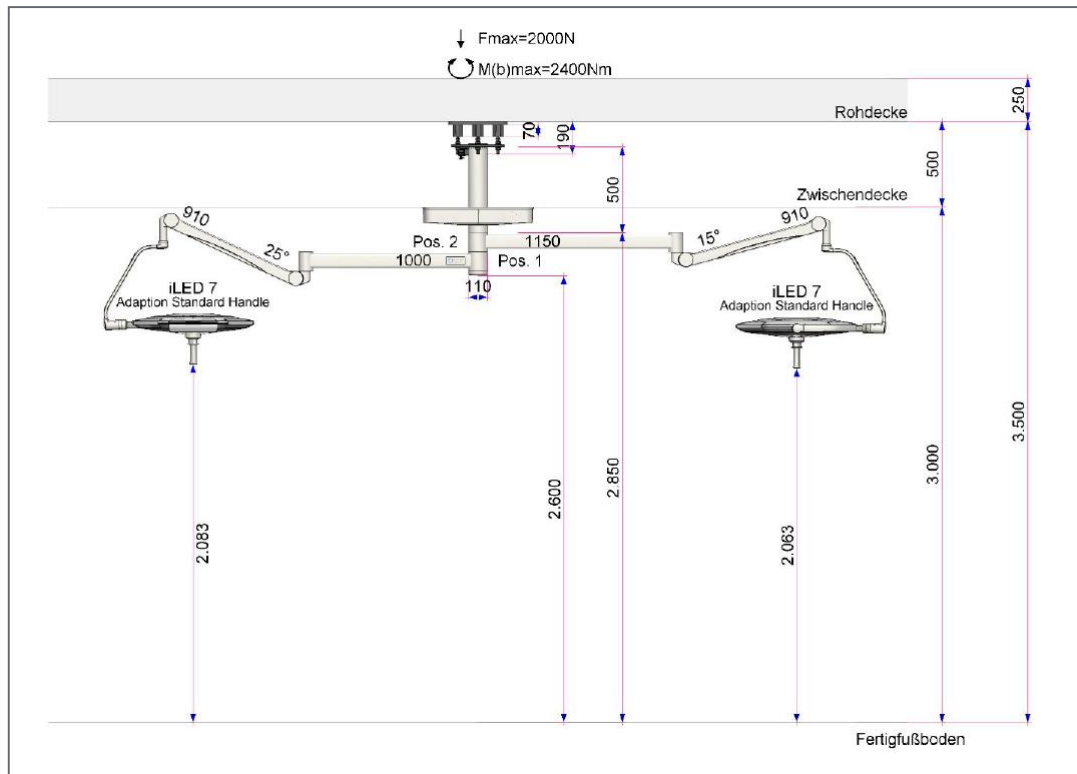
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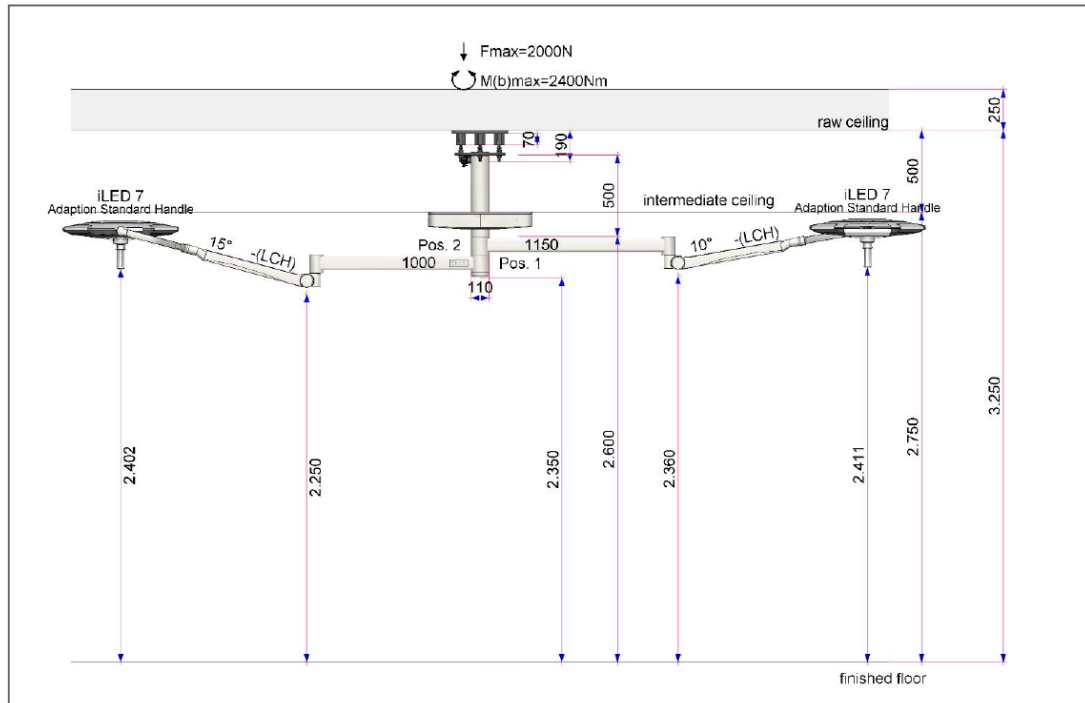
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Combination: iLED™ 7 / iLED™ 7 (Standard Ceiling Height)



Combination: iLED™ 7 / iLED™ 7 (Low Ceiling Height)



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