

# 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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Benzstraße 26 · 82178 Puchheim · Telefon +49 (0) 89 80907-0 · E-Mail [info@trumpfmedical.com](mailto:info@trumpfmedical.com)

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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 <sup>2</sup> ) <sup>1</sup>	623
Irradiance / Intensity Ratio (mW/m <sup>2</sup> lx)	3.84

### Depth of Illumination

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

<sup>1</sup> In a Distance of 1.3 m at 160,000 lux.

<sup>2</sup> 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
<b>Comparison</b>	<b>Without Shadow Management</b>	<b>With Shadow Management</b>
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 <sup>2</sup> )	1,996 (309in <sup>2</sup> )	
Laminar Flow Surface (cm <sup>2</sup> )	3,300 (512 in <sup>2</sup> )	
Area of Light Head Opening (cm <sup>2</sup> )	200 (31 in <sup>2</sup> )	
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) <sup>3</sup>	1,600 (360 lbf)	
Maximum Torque for Single Light System (Nm) <sup>3</sup>	1,600 (1180 lbf ft)	
Maximum Weight for Duo Light System (N) <sup>3</sup>	2,500 (562 lbf)	
Maximum Torque for Duo Light System (Nm) <sup>3</sup>	2,500 (1844 lbf ft)	
Maximum Weight for Trio Light System (N) <sup>3</sup>	2,800 (630 lbf)	
Maximum Torque for Trio Light System (Nm) <sup>3</sup>	2,800 (2065 lbf ft)	
Maximum Weight for Quad Light System (N) <sup>3</sup>	3.300 (742 lbf)	
Maximum Torque for Quad Light System (Nm) <sup>3</sup>	3.300 (2434 lbf ft)	
<b>Tandem</b>	<b>1651418</b> 	<b>0337326</b> 
Maximum Weight for Tandem Light System (N) <sup>3</sup>	5,000 (1124 lbf)	7,000 (1574 lbf)
Maximum Torque for Tandem Light System (Nm) <sup>3</sup>	5,000 (3688 lbf ft)	7,000 (5163 lbf ft)

<sup>3</sup> 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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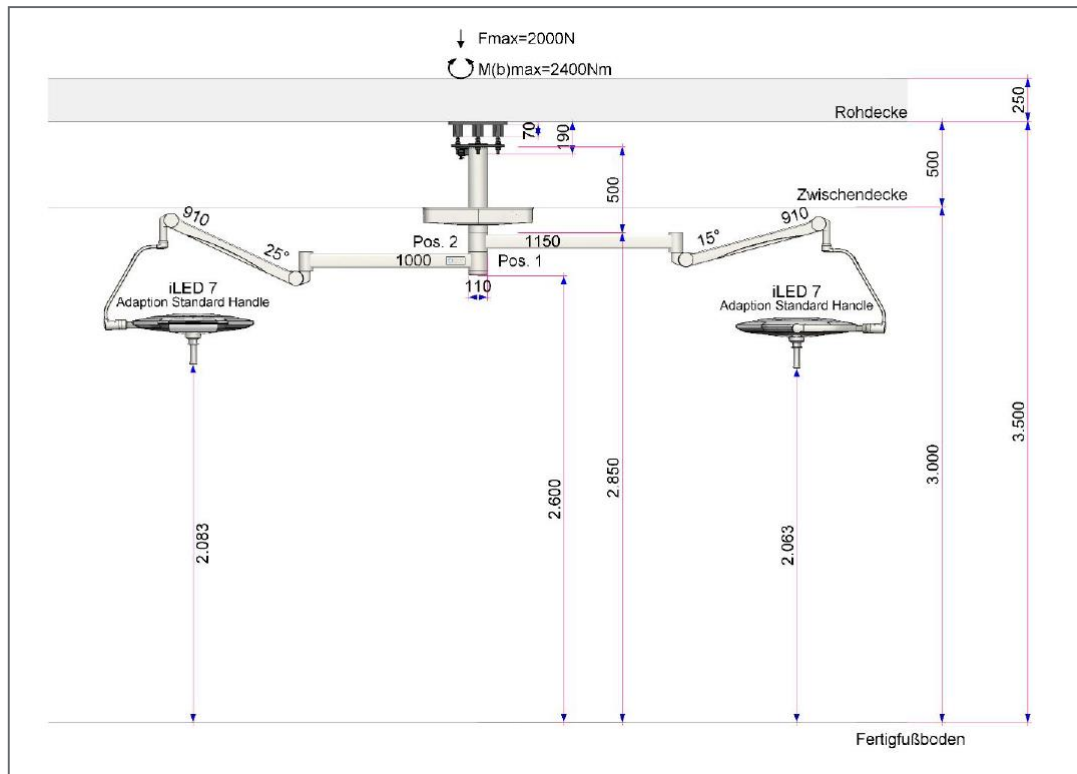
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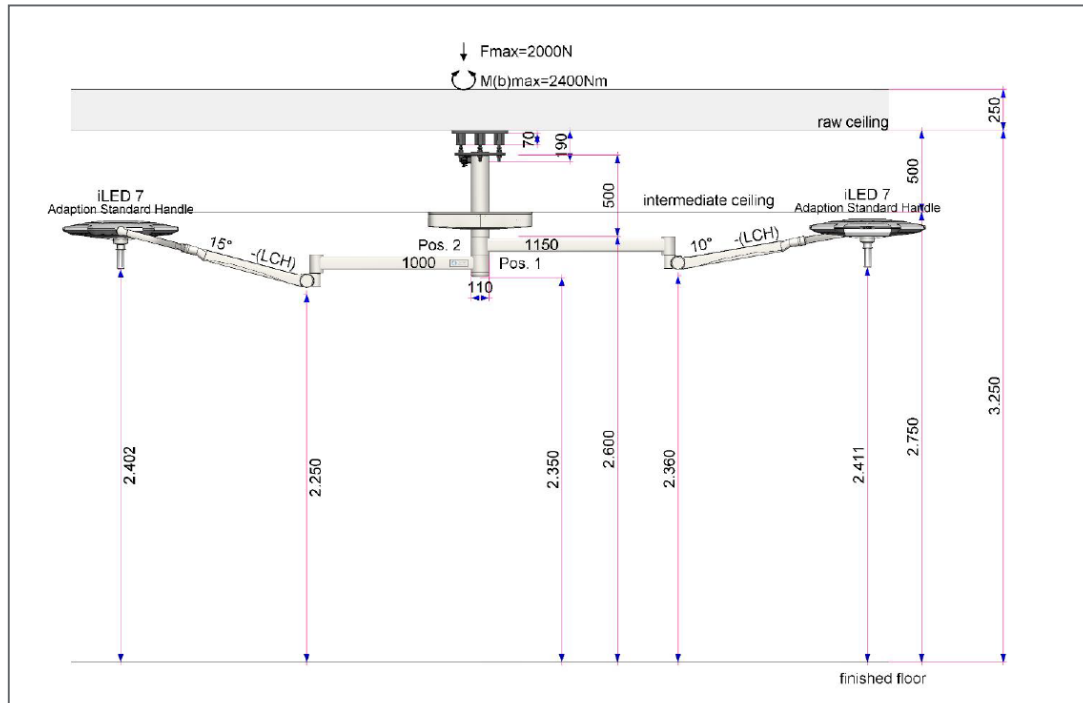
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## Combination: iLED™ 7 / iLED™ 7 (Standard Ceiling Height)



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



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