

# LED OPERATION LIGHT



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Challenging tasks require special solutions. The innovative Labstac LED operation light give you benefits of cutting-edge LED technology in a uniquely effective manner. We focus on providing LED lights that are more color-accurate, more flexible, more economical. We offer innovative light and system solutions that can be retrofitted easily and without special preparation.

Used in Dental implant surgery, Medical unit, Surgery, Operation theatre.  
Also known as Surgical LED Light, LED operation theatre light, LED OT light.

## OPL13-10 LED OR SHADOWLESS LAMP

Imported LED cold light source is adopted, with the ultrathin optical lens

Digital means are adopted for stepless regulation of LED brightness

Light field size can be adjusted by the handle

Removable handle sheath can be disinfected

Service life of LED shadowless lamp is long (50,000h)

Color temperature can be adjusted in three steps

Imported switch power supply is adopted to control the voltage, making the work voltage permanently stable

No welding titanium alloy arm, Imported spring arm make sure the lamp head adjusted easily and freely



## SPECIFICATIONS

Model	OPL13-10
Illumination	160000 Lux
Depth of light beam	$\geq 500$ mm
The value of the total irradiance	$< 6\text{mW} / \text{m}^2\text{lx}$
Total irradiance	$\leq 600\text{W}/\text{m}^2$
Color rendering Index (Ra)	$100 \geq \text{Ra} \geq 85$
Color Temperature (K)	$4000 \pm 500$ K
Power supply	$220 \pm 10\%$ 50 Hz DC24V
Power of bulb	425 W
Input power	500 VA

# OPL12-16 LED OR SHADOWLESS LAMP

Imported LED cold light source is adopted , with the ultrathin optical lens  
 Digital means are adopted for stepless regulation of LED brightness  
 Light field size can be adjusted by the handle  
 The removable handle sheath can be disinfected  
 The service life of LED shadowless lamp is long (50,000h)  
 The imported switch power supply is adopted to control the voltage, making the work voltage permanently stable  
 The no welding titanium alloy arm, Imported spring arm make sure the lamp head adjusted easily and freely



## SPECIFICATIONS

Model	OPL12-16
Illumination	120000 Lux
Depth of light beam	≥500 mm
The value of the total irradiance	<6mW / m <sup>2</sup> lx
Total irradiance	≤600W/m <sup>2</sup>
Color rendering Index (Ra)	100≥Ra≥85
Color Temperature (K)	4000±500 K
Power supply	220±10% 50 Hz DC24 V
Power of bulb	300 W
Input power	350 VA

# OPL14-10 LED OR SHADOWLESS LAMP

The no welding titanium alloy main arm is adopted, so that the appearance is aesthetic and the rotation is more flexible and convenient  
 The removable handle sheath can be disinfected at the high temperature of 135°C  
 The de-polished panel made of imported material makes the light rays softer  
 The imported switch power supply is adopted to control the voltage, making the work voltage permanently stable  
 The special radiation filter reducing the heat to the minimum level  
 The multi-flake retro reflector made of imported aluminium sheet has the features of no coating film and never fading  
 Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service more than 1500 hours  
 Light adjustment circuit adopts CPU control, enabling increase or decrease of illumination and boasting brightness memory  
 One lamp holder with two bulbs enables automatic operation of the standby bulb in 1/2 second when the main bulb malfunctions, and it has indicators for the damage of main or standby bulb



## SPECIFICATIONS

Model	OPL14-10
Illumination	140000 $\geq$ Ec $\geq$ 80000 Lux
Diameter of spot	10-28 cm
Depth of light beam	$\geq$ 700 mm
Brightness level adjustment	CPU light-dimmer
The value of the total irradiance	<6mW / m <sup>2</sup> lx
Diameter of lamp holder	600 / 600
Shift of major and stand by lamps	Automatic
Total irradiance	$\leq$ 600W/m <sup>2</sup>
Color rendering Index (Ra)	100 $\geq$ Ra $\geq$ 85
Color Temperature (K)	4500 $\pm$ 500 K
Bulb power W (24V)	150 W
Power supply	220 $\pm$ 20% 50 Hz
Input power	220+10%
Ceiling height for installation (cm)	2.8-3.2 m

## OPL11-16 LED OR SHADOWLESS LAMP

Stepless adjusting light source

ONDAL arm, OSRAM bulb



## SPECIFICATIONS

Model	OPL11-16
Illumination	160000 $\geq$ Ec $\geq$ 80000 Lux
Diameter of spot	10-28 cm
Depth of light beam	$\geq$ 700 mm
Brightness level adjustment	CPU light-dimmer
The value of the total irradiance	<6mW / m <sup>2</sup> lx
Diameter of lamp holder	700 mm
Shift of major and stand by lamps	Automatic
Total irradiance	$\leq$ 600W/m <sup>2</sup>
Color rendering Index (Ra)	100 $\geq$ Ra $\geq$ 85
Color Temperature (K)	4500 $\pm$ 500 K
Bulb power W (24V)	150 W
Power supply	220 $\pm$ 20% 50 Hz

Input power	200+10%
Ceiling height for installation (cm)	2.7-3.2 m

## OPL16-14 SINGLE ARM LED OPERATING LAMP

Streamlined, ultra-thin, enclosed head with reduced air resistance to minimise contamination

Digital controlled light intensity without grades of brightness and automatic memory for added flexibility

Optionally built in power supply systems avoiding complicated installation of wall mounted control boxes

Auxiliary light source included for laparoscopic operations

Rigid suspension arm with easy mobility and stable positioning

No infrared or ultraviolet radiation

Backlight compensation function

Endoscopy light source

Stepless adjusting light source



### SPECIFICATIONS

Model	OPL16-14
Illumination	60000~120000 Lux
Diameter of spot	10-28 cm
Depth of light beam	≥700 mm
Color rendering Index (Ra)	100≥Ra≥85
Color Temperature (K)	4500±500 K

## OPL16-16 SINGLE ARM LED OPERATING LAMP

Imported LED cold light source is adopted, with the ultrathin optical lens

Digital means are adopted for stepless regulation of LED brightness

Light field size can be adjusted by the handle

The removable handle sheath can be disinfected

The service life of LED shadowless lamp is long (50,000h)

Color temperature can be adjusted in three steps

The imported switch power supply is adopted to control the voltage, making the work voltage permanently stable

There is no welding titanium alloy arm, Imported spring arm make sure the lamp head adjusted easily and freely



### SPECIFICATIONS

Model	OPL16-16
Illumination	≥60000
Color rendering Index (Ra)	100≥Ra≥85
Color Temperature (K)	4500±500 K
Left / Right	160°

Front / Back	190°
Spring arm adjusted	≥600 mm
Input power	20 VA

## OPL17-16 LED OR LAMP

The no welding titanium alloy main arm is adopted, so that the appearance is aesthetic and the rotation is more flexible and convenient.

The removable handle sheath can be disinfected at the high temperature of 135°C.

The depolished panel made of imported material makes the light rays softer

The imported switch power supply is adopted to control the voltage, making the work voltage permanently stable

The special radiation filter reducing the heat to the minimum level

The multi-flake retroreflector made of imported aluminum sheet has the features of no coating film and never fading

Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service more than 1500 hours

Light adjustment circuit adopts CPU control, enabling increase or decrease of illumination and boasting brightness memory

One lamp holder with two bulbs enables automatic operation of the standby bulb in 1/2 second when the main bulb malfunctions, and it has indicators for the damage of main or standby bulb



## SPECIFICATIONS

Model	OPL17-16
Illumination at 1m	160000 / 160000 Lux
Illumination at 1m on Endo model (lux)	15000
Light field diameter D10 mm	180±40 / 180±40
D50 mm	110±35 / 110±35
Depth of illumination L1+L2 mm	150
Color rendering Index (Ra)	100≥Ra≥85
Red color index R9	R9≥97
Optional color temperature (K)	6700K≥Tc≥3500k
Number of LED's	84/84
Average bulb life (hours)	50000 h
Heat-to-light ratio (mW/m <sup>2</sup> lx)	<6
Power supply	110-240 V
Input power	150 W / 150 W
Ceiling height for installation (cm)	2.7-3.2 m
R13	≥99
R15	≥98

## OPL15-14 DOUBLE ARM LED OPERATING LAMP

Streamlined, ultra-thin, enclosed head with reduced air resistance to minimise contamination

Digital controlled light intensity without grades of brightness and automatic memory for added flexibility

Optionally built in power supply systems avoiding complicated installation of wall mounted control boxes

Auxiliary light source included for laparoscopic operations

Rigid suspension arm with easy mobility and stable positioning

360° arm rotation

No infrared or ultraviolet radiation

Backlight compensation function

Endoscopy light source

ONDAL arm, OSRAM bulb



### SPECIFICATIONS

Model	OPL15-14
Illumination	140,000 Lux
Adjusting range of illuminance	10-100%
Spot diameter (D50-D10)	130-350 mm
L1+L2 Depth of illumination	120 cm
Color rendering Index (Ra)	≥97
Color Temperature (K)	3600K-5500K (±500K) variable
Average bulb life (hours)	100,000 h
Power supply	220 V 50 Hz
Power of bulb	1 W x N 64
Light focus system	Manual
Input power	80 W
Ceiling height for installation (cm)	2.8 m

## OPL15-16 DOUBLE ARM LED OPERATING LAMP

Streamlined, ultra-thin, enclosed head with reduced air resistance to minimise contamination

Digital controlled light intensity without grades of brightness and automatic memory for added flexibility

Optionally built in power supply systems avoiding complicated installation of wall mounted control boxes

Auxiliary light source included for laparoscopic operations

Rigid suspension arm with easy mobility and stable positioning

No infrared or ultraviolet radiation

Backlight compensation function

Endoscopy light source

Stepless adjusting light source



## SPECIFICATIONS

Model	OPL15-16
Illumination	160,000 Lux / 140,000 Lux
Adjusting range of illuminance	10-100%
Spot diameter (D50-D10)	130-350 / 130-350 mm
L1+L2 Depth of illumination	140/120 cm
Color rendering Index (Ra)	≥97 / ≥97
Color Temperature (K)	3600K-5500K (±500K) variable
Average bulb life (hours)	100,000 h / 100,000 h
Power supply	220 V 50 Hz / 220 V 50 Hz
Power of bulb	1 W x N 128 / 1 W x N 64
Light focus system	Manual / Manual
Input power	160 W / 80 W
Ceiling height for installation (cm)	2.8 m / 2.8 m

# **Centrifugen**

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