



## KL-LED · D SERIES

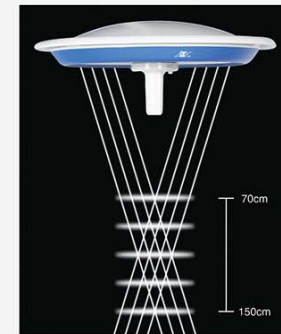
KL-LED-D78, KL-LED-D61 shadowless operation lamp is suitable for the requirements of various operation conditions and it is ideal operating lighting equipment for modern operation rooms and clean operation rooms.

- Features**
- ◆ An imported LED cold light source is adopted.
  - ◆ With electric focusing function.
  - ◆ Imported spring arm.
  - ◆ The imported switch power supply is adopted to control the voltage, making the work voltage permanently stable.
  - ◆ The no welding titanium alloy arm and the streamline-designed lamp cap better meet the design requirements of modern clean laminar flow operation rooms.
  - ◆ Digital means are adopted for stepless regulation of LED brightness.
  - ◆ The removable handle sheath can be disinfected at the high temperature of 135 °C.
  - ◆ The service life of LED shadowless lamp is long (50,000h).



### Keeps You Cool & Wound Care

The LED cool light without infrared together with our Nano coating heat filter the exceptionally low heat dissipation (3.3W/m<sup>2</sup>lx), which avoids the problem of heating the area around the surgeon's head, and prevents desiccation of exposed tissue, and is good for the quickly recover of the wound.



### Illumination in depth

With the independent secondary control light lens in every LED bulb, the output of light is perfect: small angles, high homogeneity and top efficiency. This enables an optimum illumination depth of the wound field according to its texture and the shadowing effects. This is very important in case of small and deep wound channels.



### Excellent Shadowless Capacity

The well-proportioned LED bulbs deliver a 160,000lux of pure, white light, a bright, consistent spot on surgical field regardless of obstruction.



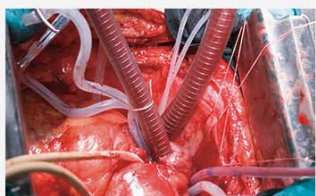
KL-LED · D61



KL-LED · D61/D61



KL-LED · D78/D61



**High CRI**  
High CRI, It may enhance the chromatic aberration between blood, other body tissues and organs, and it thus helps the operating doctor to have a clearer view.



**Patented design**  
Patented design appearance, forming a die-cast aluminum, with high heat dissipation, thus extending the service life of LED lights, imported LED source with an average life of 50,000 hours.



KL-LED · D78



KL-LED · D78/D78

## KL-LED · D78、D61 [ SPECIFICATION ]

MODE	KL-LED-D61/D61	KL-LED-D61	KL-LED-D78/D61
Diameter of lighthead(cm)	61/61	61	78/61
Lllumination at 1m(lux)	60000-120000 / 60000-120000	60000-120000	80000-160000 / 60000-120000
L light field diameter at 1m (cm)	10-28	10-28	10-28
D10(mm)	180±15	180±15	180±15
Diameter of spot D50(mm)	100±15	100±15	100±15
L1+L2 Depth of illumination(cm)	110 / 110	110	130 / 110
Color rendering index(Ra)	95	95	95
Color temperature(K)	4500±500	4500±500	4500 ±500
Number of LED bulbs	72 / 72	72	78/72
Average bulb life (hours)	50,000	50,000	50,000
Heat-to-light ratio(mW/m <sup>2</sup> lx)	3.3	3.3	3.3
Working distance(cm)	70-150	70-150	70-150
Power supply	100-240 V,50/60HZ	100-240 V,50/60HZ	100-240 V,50/60HZ
Input power (W)	240VA	120VA	270VA
Ceiling height for installation(cm)	270-320	270-320	270-320

## KL-LED · D78 [ SPECIFICATION ]

MODE	KL-LED-D78	KL-LED-D78/D78
Diameter of lighthead(cm)	78	78/78
Lllumination at 1m(lux)	80000-160000	80000-160000 / 80000-160000
L light field diameter at 1m (cm)	10-28	10-28
D10(mm)	180±15	180±15
Diameter of spot D50(mm)	100±15	100±15
L1+L2 Depth of illumination(cm)	130	130
Color rendering index(Ra)	95	95
Color temperature(K)	4500 ±500	4500 ±500
Number of LED bulbs	78	78 / 78
Average bulb life (hours)	50,000	50,000
Heat-to-light ratio(mW/m <sup>2</sup> lx)	3.3	3.3
Working distance(cm)	70-150	70-150
Power supply	100-240 V,50/60HZ	100-240 V,50/60HZ
Input power (W)	150VA	300VA
Ceiling height for installation(cm)	270-320	270-320

## KLLED-KM1 [ KL01L.II LED ]

KLLED-KM1 Suitable for ENT, urology, gynecology examination and outpatient surgery half auxiliary lighting.

- Features**
- ◆ An imported LED cold light source is adopted as operation lighting. As a genuine cold light source.
  - ◆ The LED shadowless lamp is pure-DC power supplied, without any strobe or harmonic.
  - ◆ The service life of LED shadowless lamp is long (50,000 h).
  - ◆ LED has high luminous efficiency and it is impact-resistant and strong to resist crumbling, without mercury contamination. The light it sends contains no infra-red or ultraviolet radiation pollution.
  - ◆ The unique design of the spring arm.

**Note:** KM1 also can make with battery, wall type, ceiling type

### Technical Specifications

Illumination (lux) :  $\geq 60000$   
 Color Temperature (k) :  $4500\pm 500$   
 Input power: 40 W



KLLED-KM1

KLLED-KM1 (AC/DC)



## KL-LED • MD61

KL-LED-MD61 shadowless operation lamp is suitable for the requirements of various operation conditions and it is ideal operating lighting equipment for modern operation rooms and clean operation rooms.

- Features**
- ◆ An imported LED cold light source is adopted as operation lighting. As a genuine cold light source, there is almost no temperature rise at the doctor's head or the wound.
  - ◆ The white LED has a feature of color temperature which is different from the light source of common light for operation. It may enhance the chromatic aberration between blood, other body tissues and organs, and it thus helps the operating doctor to have a clearer view.
  - ◆ The LED light is pure-DC power supplied, without any strobe or harmonic interference with other equipment in the working area.
  - ◆ The imported switch power supply is adopted to control the voltage, making the work voltage permanently stable.
  - ◆ The removable handle sheath can be disinfected at the high temperature of  $135^{\circ}\text{C}$ .
  - ◆ A special optical system is adopted so that the light is evenly illuminated on the observed objects in  $360^{\circ}$ , without any virtual image and with high definition.
  - ◆ The service life of LED light is long (50,000h), far longer than that of traditional tungsten halogen lamp (1,500h), and it is over twenty times of the service life of energy saving lamp.
  - ◆ LED has high luminous efficiency and it is impact-resistant and strong to resist crumbling, without mercury contamination. The light it sends contains no infra-red or ultraviolet radiation pollution.



KL-LED • MD61

KL-LED • MD61 (AC/DC)

### Technical Specifications

Illumination (lux): 60000~120000  
 Color Temperature (k):  $4500\pm 500$   
 Color rendering index(Ra): 95  
 Depth of illumination(mm) :  $\geq 700$   
 Diameter of spot (mm) : 10-28



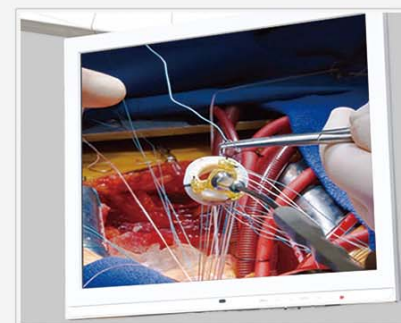
## KL700/700-III [ DIGITAL ]

KL digit, picture & shadowless lamp system consists of major and auxiliary vidicons, multimedia computer controlled digital monitoring system, monitor and shadowless lamp for surgical operation. This system is mainly intended for clinical demonstration and surgical operation.

- F-features**
- ◆ 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.

### CAMERA SPECIFICATION:

- ◆ KL digit, picture & OR Light system consists of major and auxiliary vidicons, multimedia computer controlled digital monitoring system, monitor and shadowless lamp for surgical operation. This system is mainly intended for clinical demonstration and surgical operation.
- ◆ The major vidicon is set in the center of the major lamp, keeping the scene and the light from shadowless lamp in the same direction so as to maintain the best visual angle for surgical operation and the clearest picture. This design makes the overall structure compact and simple. The auxiliary vidicon on the platform takes picture of the entire scene, enlarging the vision for monitoring.
- ◆ The system adopts integrated digital vidicon of high sensitivity imported from Japan and multimedia computer controlled digital monitoring system as well as other sophisticated technologies.
- ◆ The zoom offers 22 times of zooming, making it convenient to observe the entire scene or to have local enlargement.
- ◆ Multimedia computer controlled digital monitoring system provides:
  - Monitoring function: real-time display of three picture segregation.
  - Video function: real-time video of all pictures.
  - Back play function: select back play key to replay pictures.
  - WINDOWS operating system, reliable in performances.
  - Specially designed software, humanized picture operating interface for convenient operation, operation completed by clicking relevant keys on the major interface.
  - Surgical operation scene or pictures of operation environment recorded by adopting MPEG.
  - Three-way video input making convenient shift between full screen and major interface.
  - Standard BMP saving mode for taking pictures of surgical operation scene or operation environment.
  - VCD video for backup, surgical operation information in the form of video (leader and reel end produced automatically) forming a complete whole along with the video of surgical operation, making study on surgical operation convenient.
  - Stable database saving mode for storing various data, retaining more information on surgical operation.
  - Fuzzy search for search of data in the database.
  - Format, letter style and color to be determined by the user, printing can be set flexibly.



### Technical Specifications

Illumination (lux): 80000~160000	Color Temperature (k): 4500±500	Color rendering index(Ra): 100≥Ra≥85
Diameter of spot (mm) : 175±35	Depth of illumination(mm) : ≥700	
The value of the total irradiance(service range for temperature rise≤10°C): ≤6mW/m²lx		
Total irradiance ( Temperature rise on the head of patient under surgical operation≤2°C): ≤600mW/m²		

## KL700、500 SERIES

KL700、500 shadowless operation lamp is suitable for the requirements of various operation conditions and it is ideal operating lighting equipment for modern operation rooms and clean operation rooms.

- Features**
- ◆ 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.



Excellent Shadowless Capacity  
white light, a bright, consistent spot on surgical field regardless of obstruction





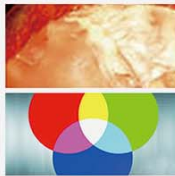
KL700/500-III



KL500/500-III



**Perfect color temperature**  
Based on Trichromatic Theory, the light is closer to natural light, which is good for medical workers to distinguish the colors of vascular tissue, nerve endings and so on.



**Illumination in depth**  
It adopts lamp bulb imported from Germany and provides the best beam depth, which is particularly important for deep operation with small-incision.

700mm以上



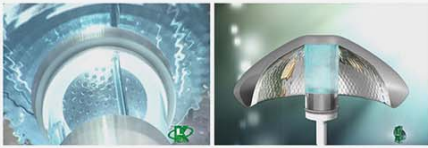
KL500-III



**Conductive system**  
Conductive system adopts imported heat-resisting material, thus promising the working life of shadowless lamp.



**The function of filtering system**  
Adopting the US blue cold light coating technology, the optical filter could effectively filter ultraviolet rays from the spectrum.



**Keeps You Cool&Wound Care**  
We have designed perfect heat dissipation effect, which resolves the problem of too high temperature above the head of surgeon and effectively avoids losing water of wound surface, thus is beneficial for the quick recovery of patients. Cooling system is good for absorbing the heat of light and transfers heat to the top of the lampshade according to Air Circulation Theory.

## KL700-III、KL700/700-III [NEW] [ SPECIFICATION ]

MODE	KL700-III [ NEW ]	KL700/700-III [ NEW ]
Illumination (lux)	160000≥E≥80000	160000≥E≥80000 / 160000≥E≥80000
Color Temperature (K)	4500±500	4500±500
Color rendering index	100≥Ra≥85	100≥Ra≥85
Diameter of Spot (mm)	d10175±35	d10175±35 / d10175±35
Depth of light beam (mm)	≥700	≥700
Brightness level adjustment	CPU light-dimmer	CPU light-dimmer
The value of the total irradiance (service range for temperature rise≤10°C)	< 6mW/m <sup>2</sup> lx	< 6mW/m <sup>2</sup> lx
Total irradiance ( Temperature rise on the head of patient under surgical operation≤2°C)	≤600W/m <sup>2</sup>	≤600W/m <sup>2</sup>
Diameter of lamp holder (mm)	700	700/700
Shift of major and stand by lamps	Automatic	Automatic
Bulb power W(24V)	150	150/150
Power supply (AC)	220±20% 50Hz	220±20% 50Hz
Input power (VA)	200+10%	400+10%
Minimum height for installation ( mm )	2700-3200	2800-3200

## KL700-III、KL700/700-III [ SPECIFICATION ]

MODE	KL700-III	KL700/700-III
Illumination (lux)	160000≥E≥80000	160000≥E≥80000 / 160000≥E≥80000
Color Temperature (K)	4500±500	4500±500
Color rendering index	100≥Ra≥85	100≥Ra≥85
Diameter of Spot (mm)	d10175±35	d10175±35 / d10175±35
Depth of light beam (mm)	≥700	≥700
Brightness level adjustment	CPU light-dimmer	CPU light-dimmer
The value of the total irradiance (service range for temperature rise≤10°C)	< 6mW/m <sup>2</sup> lx	< 6mW/m <sup>2</sup> lx
Total irradiance ( Temperature rise on the head of patient under surgical operation≤2°C)	≤600W/m <sup>2</sup>	≤600W/m <sup>2</sup>
Diameter of lamp holder (mm)	700	700/700
Shift of major and stand by lamps	Automatic	Automatic
Bulb power W(24V)	150	150/150
Power supply (AC)	220±20% 50Hz	220±20% 50Hz
Input power (VA)	200+10%	400+10%
Minimum height for installation ( mm )	2700-3200	2800-3200

## KL700/500-III、KL500-III [ SPECIFICATION ]

MODE	KL700/500-III	KL500-III
Illumination (lux)	160000≥E≥80000 / 100000≥E≥50000	100000≥E≥50000
Color Temperature (K)	4500±500	4500±500
Color rendering index	100≥Ra≥85	100≥Ra≥85
Diameter of Spot (mm)	d10175±35 / d10175±35	d10175±35
Depth of light beam (mm)	≥700	≥700
Brightness level adjustment	CPU light-dimmer	CPU light-dimmer
The value of the total irradiance (service range for temperature rise≤10°C)	< 6mW/m <sup>2</sup> lx	< 6mW/m <sup>2</sup> lx
Total irradiance ( Temperature rise on the head of patient under surgical operation≤2°C)	≤600W/m <sup>2</sup>	≤600W/m <sup>2</sup>
Diameter of lamp holder (mm)	700/500	500
Shift of major and stand by lamps	Automatic	Automatic
Bulb power W(24V)	150/150	150
Power supply (AC)	220±20% 50Hz	220±20% 50Hz
Input power (VA)	400+10%	200+10%
Minimum height for installation ( mm )	2800-3200	2700-3200

## KL500/500-III [ SPECIFICATION ]

MODE	KL500/500-III
Illumination (lux)	100000≥E≥50000 / 100000≥E≥50000
Color Temperature (K)	4500±500
Color rendering index	100≥Ra≥85
Diameter of Spot (mm)	d10175±35 / d10175±35
Depth of light beam (mm)	≥700
Brightness level adjustment	CPU light-dimmer
The value of the total irradiance (service range for temperature rise≤10°C)	< 6mW/m <sup>2</sup> lx
Total irradiance ( Temperature rise on the head of patient under surgical operation≤2°C)	≤600W/m <sup>2</sup>
Diameter of lamp holder (mm)	500/500
Shift of major and stand by lamps	Automatic
Bulb power W(24V)	150/150
Power supply (AC)	220±20% 50Hz
Input power (VA)	400+10%
Minimum height for installation ( mm )	2800-3200

## KL600 SERIES

KL600 series shadowless operation lamp is suitable for the requirements of various operation conditions and it is ideal operating lighting equipment for modern operation rooms and clean operation rooms.

- Features**
- ◆ 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.



KL600/600-III



KL600-III



KL600-II (wall type)

### KL600/600-III 、 KL600-III、 KL600-II [SPECIFICATION]

MODE	KL600/600-III	KL600-III	KL600-II
Illumination (lux)	140000≥Ee≥60000 140000≥Ee≥60000	140000≥Ee≥60000	120000≥Ee≥60000
Color Temperature (K)	4500±500	4500±500	4500±500
Color rendering index	100≥Ra≥85	100≥Ra≥85	100≥Ra≥85
Diameter of Spot (mm)	d1ø175±35 / d1ø175±35	d1ø175±35	d1ø175±35
Depth of light beam (mm)	≥700	≥700	≥700
Brightness level adjustment	CPU light-dimmer	CPU light-dimmer	CPU light-dimmer
The value of the total irradiance (service range for temperature rise≤10°C)	< 6mW/m <sup>2</sup> lx	< 6mW/m <sup>2</sup> lx	< 6mW/m <sup>2</sup> lx
Total irradiance ( Temperature rise on the head of patient under surgical operation≤2°C)	≤600W/m <sup>2</sup>	≤600W/m <sup>2</sup>	≤600W/m <sup>2</sup>
Diameter of lamp holder (mm)	600/600	600	600
Shift of major and stand by lamps	Automatic	Automatic	Automatic
Bulb power W(24V)	150/150	150	150
Power supply (AC)	220±20% 50Hz	220±20% 50Hz	220±20% 50Hz
Input power (VA)	440+10%	200+10%	220+10%
Minimum height for installation ( mm )	2800 ~ 3200	2700~3200	2800~3200



## KL600-I、KL600/600-I

KL600-I、KL600/600-I shadowless operation lamp is suitable for the requirements of various operation conditions and it is ideal operating lighting equipment for modern operation rooms and clean operation rooms.

- Features**
- ◆ Light adjustment circuit adopts SCR adjustment.
  - ◆ The removable handle sheath can be disinfected at the high temperature of 135 °C.
  - ◆ The retroreflector made of imported aluminum sheet has the features of no coating film and never fading.
  - ◆ The special radiation filter reducing the heat to the minimum level.
  - ◆ The rippled panel made of imported material makes the light rays softer.
  - ◆ One lamp holder with two bulbs, In case the primary bulb is in fault, the hand switch can be used to switch to the secondary bulb for lighting.
  - ◆ Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service more than 1500 hours.



KL600/600-I



KL600-I

## KL600-I、KL600/600-I [ SPECIFICATION ]

MODE	KL600-I	KL600/600-I
Illumination (lux)	100000≥E<60000	100000≥E<60000 / 100000≥E<60000
Color Temperature (K)	4500±500	4500±500
Color rendering index	100≥Ra≥85	100≥Ra≥85
Diameter of Spot (mm)	d10175±35	d10175±35 / d10175±35
Depth of light beam (mm)	≥700	≥700
Brightness level adjustment	Stepless adjustment of light	Stepless adjustment of light
The value of the total irradiance (service range for temperature rise≤10°C)	< 6mW/m²lx ≤600W/m²	< 6mW/m²lx
Total irradiance ( Temperature rise on the head of patient under surgical operation≤2°C)	600	≤600W/m²
Diameter of lamp holder (mm)		600/600
Shift of major and stand by lamps	Hand-operated	Hand-operated
Bulb power W(24V)	150	150/150
Power supply (AC)	220±10% 50Hz	220±10% 50Hz
Input power (VA)	220+10%	440+10%
Minimum height for installation ( mm )	2800~3200	2800~3200

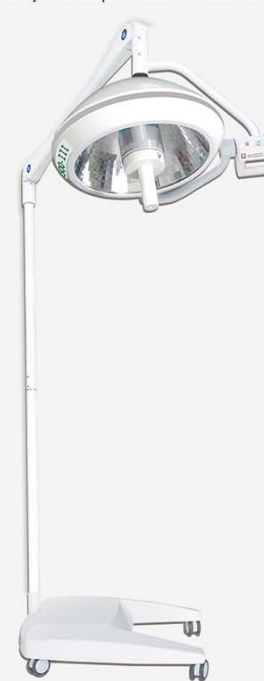
## KL500-III [ MOBILE ]

KL500-III shadowless operation lamp is suitable for the requirements of various operation conditions and it is ideal operating lighting equipment for modern operation rooms and clean operation rooms.

- Features**
- ◆ The imported switch power supply is adopted to control the voltage, making the work voltage permanently stable.
  - ◆ The removable handle sheath can be disinfected at the high temperature of 135 °C.
  - ◆ The special radiation filter reducing the heat to the minimum level.
  - ◆ The depolished panel is made of imported material makes the light rays softer.
  - ◆ The multi-flake retroreflector made of imported aluminum sheet, has the features of no coating film and never fading.
  - ◆ 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.
  - ◆ Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service more than 1500 hours.
  - ◆ AC/DC, may satisfy when the power failure continues the surgery.(AC/DC type)

### Technical Specifications

Illumination (lux):	50000~100000
Color Temperature (K):	4500±500
Color rendering index (Ra):	100≥Ra≥85
Diameter of Spot (mm):	175±35
Depth of light beam (mm):	≥700



KL500-III(MOBILE)



KL500-III (AC/DC)

## KL01L SERIES

*KL01L Suitable for ENT, urology, gynecology examination and outpatient surgery half auxiliary lighting.*

**NOTE:**

- KL01L.IP use shadonless bulbs
- KL01L.II use halogen bulbs
- KL01L.III with battery



KL01L.III



KL01L.II



KL01L.IP

## KL04L [ MOBILE ]

*KL04L For general outpatient surgical lighting, with brake can be easy moved. KL04L.I with battery is more suitable for cutting off power.*



KL04L.I [AC/DC]



KL04L.III

## KL05L SERIES

*KL05 is more suitable for small operating room, KL05L.III with brake can be easy moved, KL05L.I with battery is more suitable for cutting off power.*



KL05L.I



KL05L



KL05L.III

## KL09L、KL12L、KL1205L

*KL09L KL12L KL1205L use of multiple different sources, by focusing knob, so the beam is irradiated from different locations surgery, reduce the shadow medical staff head, hands and other parts caused. The illumination can be adjusted according to actual needs.*



KL1205L



KL09L



KL12L

**NOTE:** If you want use halogen bulbs, please mention before your order.

## KL01L [ SPECIFICATION ]

MODE	KL01L-IP	KL01L-IL, KL01L-III AC/DC
Illumination (lux)	≥12000	≥20000
Color Temperature (K)	3500±500	3500±500
Power supply (AC)	220V±10% 50Hz	220V±10% 50Hz
Rated voltage of bulb	24V	24V
Rated power of bulb	25W	50W
Input power (VA)	30	60
Note	Cold light source	Tungsten halogen bulb

## KL04L [ SPECIFICATION ]

MODE	KL04L-I AC/DC	KL04L-III
Illumination (lux)	40000	40000
Color Temperature (K)	4000±500	4000±500
Color rendering index	100≥Ra≥85	100≥Ra≥85
Depth of light beam (mm)	-	≥500
The value of the total irradiance(service range for temperature rise≤10°C)	< 6mW/m <sup>2</sup> lx	< 6mW/m <sup>2</sup> lx
Total irradiance ( Temperature rise on the head of patient under surgical operation≤2°C)	≤600W/m <sup>2</sup>	≤600W/m <sup>2</sup>
Power supply(AC)	220V±10% 50Hz DC24V	220V±10% 50Hz DC24V
Rated voltage of bulb	24V	24V
Rated power of bulb	100W	100W
Input power(VA)	180	120

## KL05L、KL09L [ SPECIFICATION ]

MODE	KL05L、KL05L-I、KL05L-III	KL09L
Illumination (lux)	50000	90000
Color Temperature (K)	4000±500	4000±500
Color rendering index	100≥Ra≥85	100≥Ra≥85
Depth of light beam (mm)	≥500	≥500
The value of the total irradiance(service range for temperature rise≤10°C)	< 6mW/m <sup>2</sup> lx	< 6mW/m <sup>2</sup> lx
Total irradiance ( Temperature rise on the head of patient under surgical operation≤2°C)	≤600W/m <sup>2</sup>	≤600W/m <sup>2</sup>
Power supply(AC)	220V±10% 50Hz	220V±10% 50Hz
Rated voltage of bulb	24V	24V
Rated power of bulb	125W	225W
Input power(VA)	150	280

## KL12L、KL1205L [ SPECIFICATION ]

MODE	KL12L	KL1205L
Illumination of Main lamp (lux)	120000	120000
Illumination of Supplementary lamp (lux)	-	50000
Color Temperature (K)	4000±500	4000±500
Color rendering index	100≥Ra≥85	100≥Ra≥85
Depth of light beam (mm)	≥500	≥500
The value of the total irradiance(service range for temperature rise≤10°C)	< 6mW/m <sup>2</sup> lx	< 6mW/m <sup>2</sup> lx
Total irradiance ( Temperature rise on the head of patient under surgical operation≤2°C)	≤600W/m <sup>2</sup>	≤600W/m <sup>2</sup>
Power supply(AC)	220V±10% 50Hz	220V±10% 50Hz
Rated voltage of bulb	24V	24V
Rated power of bulb	300W	425W
Input power(VA)	350	500