

Shadowless Operating Lamp Catalogue

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1. WH500-500



Technical Data:

1. Illuminance: 60000~120000Lux, 60000~120000Lux
2. Color temperature: 4000±500K
3. Illuminance depth (mm) : ≥700
4. Temperature rise (°C) (working area): ≤12/≤12
5. Operator head temperature rise(°C): ≤2
6. Brightness adjustment: 8-stage continuous light adjustment.
7. Shift of major and stand by lamps: Automatic.
8. power supply voltage: ~220V/50-60Hz / 110V/60Hz
9. Input power (w): 400
10. 24V bulb power(w)24v: 150/150
11. Lowest height of installation: 2900mm

2. WH500



Technical Data:

1. Illuminance: 60000~120000Lux,
2. Color temperature: 4000±500K
3. Illuminance depth (mm) : ≥700
4. Temperature rise(°C) (working area): ≤12
5. Operator head temperature rise(°C): ≤2
6. Brightness adjustment: 8-stage continuous light adjustment.
7. Shift of major and stand by lamps: Automatic.
8. power supply voltage: ~220V/50-60Hz / 110V/60Hz
9. Input power (w): 200
10. 24V bulb power(w)24v: 150
11. Lowest height of installation: 2900mm

3. WH- DIGIT



WH 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.

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.

KOCA multimedia computer controlled digital monitoring system provides:

1. Monitoring function: real-time display of three picture segregation.
2. Video function: real-time video of all pictures.
3. Back play function: select back play key to replay pictures.

KOCA's special functions:

1. WINDOWS2000 PROFESSIONAL, reliable in performances.
2. Specially designed software, humanized picture operating interface for convenient operation, operation completed by clicking relevant keys on the major interface.
3. Surgical operation scene or pictures of operation environment recorded by adopting MPEG.
4. Three-way video input making convenient shift between full screen and major interface.
5. Standard BMP saving mode for taking pictures of surgical operation scene or operation environment.
6. 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.
7. Stable database saving mode for storing various data, retaining more information on surgical operation.
8. Fuzzy search for search of data in the database.
9. Format, letter style and color to be determined by the user, printing can be set flexibly.

Technical Specifications:

Definition	≥480TVL
SNR	≥48db
Distance for camera (m):	
Major camera	0.8~2
Panoramic camera	1~10
Input power (VA):	900
Range for the movement of platform	
Horizontal	360°
Vertical	90°
Mains voltage	220V/50Hz
Camera aperture	F1.6~F3.7
Focus	F4~88mm
Focus mutiplification	22 times
Video output	1.0Vp-p75Ω
Camera power supply	12VDC±10%

4. WH700-III (new)



WH700-III (new) shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms. CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

Imported polished panel (optionally the transparent panel) is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors making the light soft and illumination even and ensuring excellent safety performance.

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, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500 ± 500
Diameter of Spot	$d10175 \pm 35\text{mm}$
Depth of light beam	≥ 700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	$< 6\text{mW/m}^2 \text{ lx}$
Diameter of lamp holder	700
Shift of major and stand by lamps	Automatic
Bulb power	150
Power supply	$220 \pm 20\%$ 50Hz
Input power	200
Minimum height for installation (mm)	2800~3200

5. WH700-700-III (new)



WH700-700-III new shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms.

CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

The matting panel is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors, making the light soft and illumination even and ensuring excellent safety performance.

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, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Imported spring arm and titanium alloy main arm are adopted. Average service life of international brandname lamp receptacle and bulb can reach 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

$160000 \geq E_c \geq 80000$

Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	700/700
Shift of major and stand by lamps	Automatic
Bulb power	150/150
Power supply	220±20% 50Hz
Input power	400
Minimum height for installation (mm)	2800~3200

6. WH700-III (electrical)



WH700-III electrical series shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms.

CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; adopting electric focusing, depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

The matting panel is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors, making the light soft and illumination even and ensuring excellent safety performance.

Light adjustment circuit adopts CPU control, making brightness increased or decreased uniformly in range. Besides, it boasts the function of brightness memory and electric focusing.

One lamp holder with two bulbs enables automatic operation of the standby bulb in 1/2 second when the main bulb malfunctions, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Imported spring arm and titanium alloy main arm are adopted. Average service life of international brandname lamp receptacle and bulb can reach 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

$160000 \geq E_c \geq 80000$

Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m² lx
Diameter of lamp holder	700
Shift of major and stand by lamps	Automatic
Bulb power	150
Power supply	220±20% 50Hz
Input power	200
Minimum height for installation (mm)	2800~3200

7. WH700-700-III (electrical)



WH700-700-III electrical series shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms.

CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; adopting electric focusing, depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

The matting panel is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors, making the light soft and illumination even and ensuring excellent safety performance.

Light adjustment circuit adopts CPU control, making brightness increased or decreased uniformly in range. Besides, it boasts the function of brightness memory and electric focusing.

One lamp holder with two bulbs enables automatic operation of the standby bulb in 1/2 second when the main bulb malfunctions, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Imported spring arm and titanium alloy main arm are adopted. Average service life of international brandname lamp receptacle and bulb can reach 1500 hours.

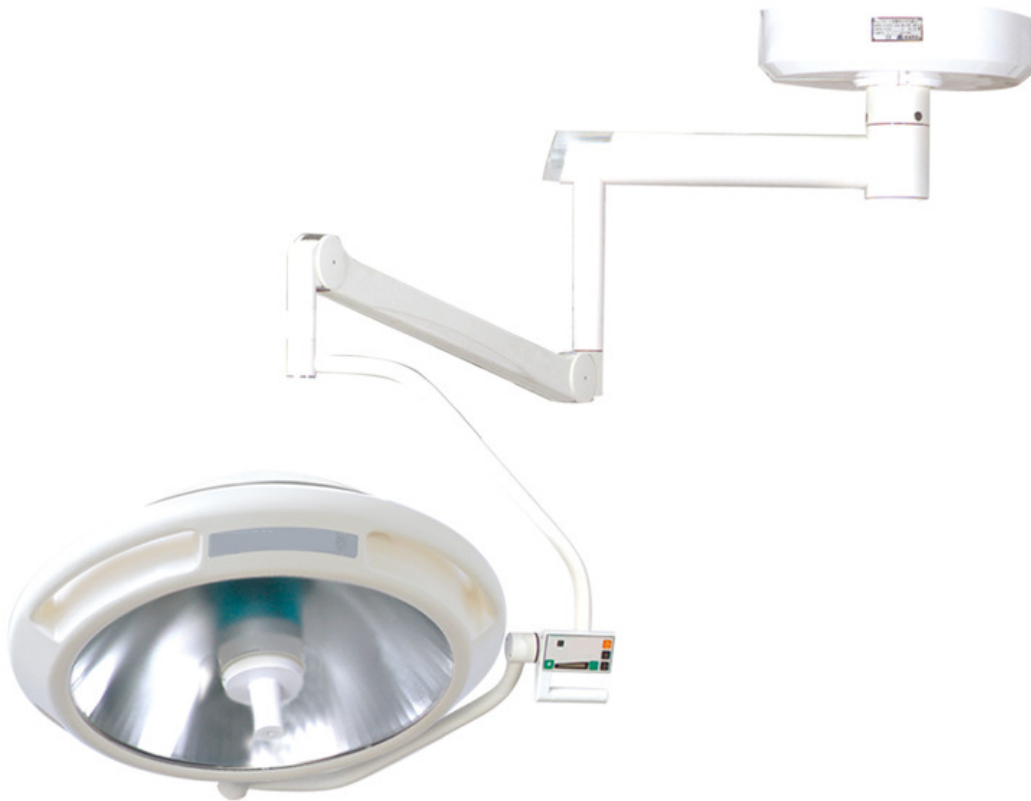
Technical Specifications:

Illumination Lx(at the distance of 1m)

$160000 \geq E_c \geq 80000$

Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m² lx
Diameter of lamp holder	700/700
Shift of major and stand by lamps	Automatic
Bulb power	150/150
Power supply	220±20%

8. WH700-III(LUXURIOUS STYLE)



WH700-III(luxurious style) shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms.

CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

Imported polished panel (optionally the transparent panel) is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors making the light soft and illumination even and ensuring excellent safety performance.

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, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	700
Shift of major and stand by lamps	Automatic
Bulb power	150
Power supply	220±20% 50Hz
Input power	200
Minimum height for installation (mm)	2800~3200

9. WH700-700-III(LUXURIOUS STYLE)



WH700-700-III(luxurious style) shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms.

CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

Imported polished panel (optionally the transparent panel) is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors making the light soft and illumination even and ensuring excellent safety performance.

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, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	700/700
Shift of major and stand by lamps	Automatic
Bulb power	150/150
Power supply	220±20% 50Hz
Input power	400
Minimum height for installation (mm)	2800~3200

10. WH700-III



WH700-III shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms.

CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

Imported polished panel (optionally the transparent panel) is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors making the light soft and illumination even and ensuring excellent safety performance.

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, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	700
Shift of major and stand by lamps	Automatic
Bulb power	150
Power supply	220±20% 50Hz
Input power	200
Minimum height for installation (mm)	2800~3200

11. WH700-700-III



WH700-700-III shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms.

CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

Imported polished panel (optionally the transparent panel) is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors making the light soft and illumination even and ensuring excellent safety performance.

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, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

$$160000 \geq E_c \geq 80000$$

Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	700/700
Shift of major and stand by lamps	Automatic
Bulb power	150/150
Power supply	220±20% 50Hz
Input power	400
Minimum height for installation (mm)	2800~3200

12. WH700-II



WH700-II shadowless lamps meet the requirements for all circumstances of surgical operations. It is an ideal lighting facility for modern surgical operations.

Reflector system designed in CAD; color temperature close to that of sunlight; making the tissue surface visible under natural color; depth of tubular light beams up to over 700mm; uniform illumination effectively eliminating shadows under any circumstance;

Special heat-isolated radiation filter reduces heat to the minimum level.

Rippled panel made of shock-resistant and heat-resistant PC material, The imported aluminum reflecting mirror can make light soft, uniform and increasing safety. Light adjustment circuit adopts CPU control; and the illumination has increase or decrease and has illumination memory.

One lamp holder with two bulbs is the feature of the design. When the main bulb malfunctions, the standby bulb will get into operation within 1/2 second to ensure the normal medical operation. On the panel, there is indicator for the malfunction of the major and standby bulbs. The bulbs can be easily replaced. The dischargeable handle can be conveniently cleaned and sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m² lx
Diameter of lamp holder	700
Shift of major and stand by lamps	Automatic
Bulb power	150
Power supply	220±20% 50Hz
Input power	200
Minimum height for installation (mm)	2800~3200

13. WH700-700-II



WH700-700-II shadowless lamps meet the requirements for all circumstances of surgical operations. It is an ideal lighting facility for modern surgical operations.

Reflector system designed in CAD; color temperature close to that of sunlight; making the tissue surface visible under natural color; depth of tubular light beams up to over 700mm; uniform illumination effectively eliminating shadows under any circumstance;

Special heat-isolated radiation filter reduces heat to the minimum level.

Rippled panel made of shock-resistant and heat-resistant PC material, The imported aluminum reflecting mirror can make light soft, uniform and increasing safety. Light adjustment circuit adopts CPU control; and the illumination has increase or decrease and has illumination memory.

One lamp holder with two bulbs is the feature of the design. When the main bulb malfunctions, the standby bulb will get into operation within 1/2 second to ensure the normal medical operation. On the panel, there is indicator for the malfunction of the major and standby bulbs. The bulbs can be easily replaced. The dischargeable handle can be conveniently cleaned and sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m² lx
Diameter of lamp holder	700/700
Shift of major and stand by lamps	Automatic
Bulb power	150/150
Power supply	220±20% 50Hz
Input power	400
Minimum height for installation (mm)	2800~3200

14. KL700-500-II



WH700/500-II shadowless lamps meet the requirements for all circumstances of surgical operations. It is an ideal lighting facility for modern surgical operations. Reflector system designed in CAD; color temperature close to that of sunlight; making the tissue surface visible under natural color; depth of tubular light beams up to over 700mm; uniform illumination effectively eliminating shadows under any circumstance;

Special heat-isolated radiation filter reduces heat to the minimum level. Rippled panel made of shock-resistant and heat-resistant PC material, The imported aluminum reflecting mirror can make light soft, uniform and increasing safety. Light adjustment circuit adopts CPU control; and the illumination has increase or decrease and has illumination memory.

One lamp holder with two bulbs is the feature of the design. When the main bulb malfunctions, the standby bulb will get into operation within 1/2 second to ensure the normal medical operation. On the panel, there is indicator for the malfunction of the major and standby bulbs. The bulbs can be easily replaced. The dischargeable handle can be conveniently cleaned and sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m² lx
Diameter of lamp holder	700/500
Shift of major and stand by lamps	Automatic
Bulb power	150/150
Power supply	220±20% 50Hz
Input power	400
Minimum height for installation (mm)	2800~3200

15. WH700-500-III



WH700-500-III shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms.

CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

Imported polished panel (optionally the transparent panel) is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors making the light soft and illumination even and ensuring excellent safety performance.

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, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	700/500
Shift of major and stand by lamps	Automatic
Bulb power	150/150
Power supply	220±20% 50Hz
Input power	400
Minimum height for installation (mm)	2800~3200

16. WH500-III(LUXURIOUS STYLE)



WH500-III (luxurious style) shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms.

CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

Imported polished panel (optionally the transparent panel) is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors making the light soft and illumination even and ensuring excellent safety performance.

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, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	500
Shift of major and stand by lamps	Automatic
Bulb power	150
Power supply	220±20% 50Hz
Input power	200
Minimum height for installation (mm)	2800~3200

17. WH700-500-III(LUXURIOUS STYLE)



WH700/500-III (luxurious style) shadowless operation lamp is fit for various requirements in surgical operation, and is an ideal illumination equipment for modern operation rooms.

CAD-designed reflector system; color temperature approaching that of sunlight; making the tissue surface visible in natural color; depth of light beams reaching over 700mm; even illumination; effectively eliminating shadows under various circumstances.

The special radiation filter reducing the heat to the minimum level.

Imported polished panel (optionally the transparent panel) is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors making the light soft and illumination even and ensuring excellent safety performance.

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, ensuring normal surgical operation. Handle and panel have indicators for the damage of main or standby bulb.

The main and standby bulbs can be easily and conveniently replaced. The dischargeable handle sheath can be sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

$$160000 \geq E_c \geq 80000$$

Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	700/500
Shift of major and stand by lamps	Automatic
Bulb power	150/150
Power supply	220±20% 50Hz
Input power	400
imum height for installation (mm)	2800~3200

18. WH900-600-III



WH900-600-III shadowless operation lamps adopts light bulbs imported from Germany as the lighting source, which illuminates the object of operation through a CAD-designed catoptric system. The grade of the light approaches that of sunlight; and the depth of light beam is over 700mm. In the control system, the bulbs have cold start, and can have automatic switch when damaged. When the control system is damaged, there is an emergency function for normal operation.

Technical Specifications:

Illumination Lx(at the distance of 1m)

$$160000 \geq E_c \geq 120000$$

$$160000 \geq E_c \geq 80000$$

Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	Stepless adjustment of light
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	900/600
Shift of major and stand by lamps	Automatic
Bulb power	250/150
Power supply	220±10% 50Hz
Input power	600
Minimum height for installation (mm)	2800~3200

19. WH600-III



WH600-III shadowless operating lamps meet the requirements of various surgical operations. It is an ideal lighting facility for surgical operations.

In the reflector system designed in CAD, color and temperature are close to that of sunlight so that the tissue surface is visible under natural color. The depth of tubular light beams reach up to over 700mm, therefore the well-proportioned illumination effectively eliminates shadows under any circumstance;

Special heat-isolated radiation filter reduces heat to the minimum level.

Imported polished panel (optionally the transparent panel) is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors making the light soft and illumination even and ensuring excellent safety performance. CPU is adopted for the control, capable of increasing or decreasing and boasting brightness memory. When the main bulb malfunctions, the standby bulb will come into operation within 1/2 second. The major and auxiliary bulbs can be replaced easily. The dischargeable handle sheath can be sterilized in steam sterilizer.

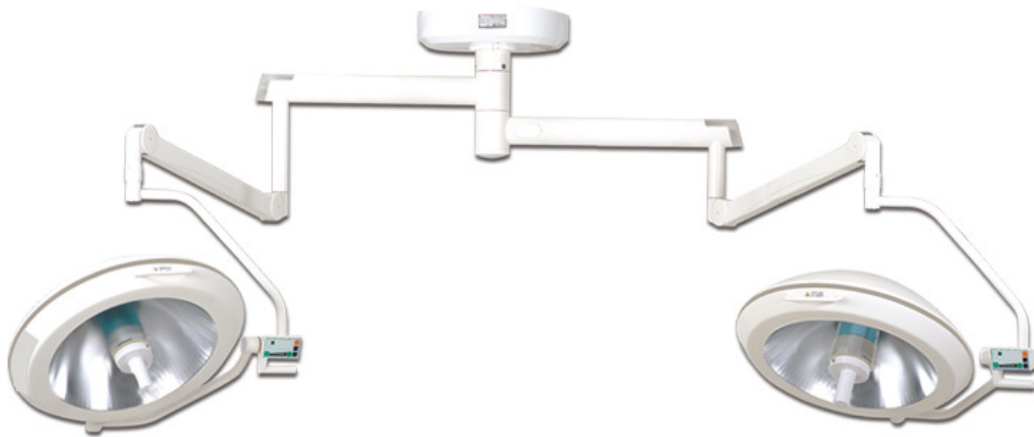
Titanium main arm and imported aluminum sheet squamulose reflector are adopted.
Average service life of imported lamp receptacle and bulb can reach 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m² lx
Diameter of lamp holder	600
Shift of major and stand by lamps	Automatic
Bulb power	150
Power supply	220±20% 50Hz
Input power	200
Minimum height for installation (mm)	2800~3200

20. WH600-600-III



WH600-600-III shadowless operating lamps meet the requirements of various surgical operations. It is an ideal lighting facility for surgical operations.

In the reflector system designed in CAD, color and temperature are close to that of sunlight so that the tissue surface is visible under natural color. The depth of tubular light beams reach up to over 700mm, therefore the well-proportioned illumination effectively eliminates shadows under any circumstance;

Special heat-isolated radiation filter reduces heat to the minimum level.

Imported polished panel (optionally the transparent panel) is made of imported cracking and temperature resistant PC material, which has more reflecting mirrors making the light soft and illumination even and ensuring excellent safety performance. CPU is adopted for the control, capable of increasing or decreasing and boasting brightness memory. When the main bulb malfunctions, the standby bulb will come into operation within 1/2 second. The major and auxiliary bulbs can be replaced easily. The dischargeable handle sheath can be sterilized in steam sterilizer.

Titanium main arm and imported aluminum sheet squamulose reflector are adopted.
Average service life of imported lamp receptacle and bulb can reach 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m² lx
Diameter of lamp holder	600/600
Shift of major and stand by lamps	Automatic
Bulb power	150/150
Power supply	220±20% 50Hz
Input power	400
Minimum height for installation (mm)	2800~3200

21. WH600-II



WH600-II shadowless operating lamps meet the requirements of various surgical operations. It is an ideal lighting facility for surgical operations.

In the reflector system designed in CAD, color and temperature are close to that of sunlight so that the tissue surface is visible under natural color. The depth of tubular light beams reach up to over 700mm, therefore the well-proportioned illumination effectively eliminates shadows under any circumstance;

Special heat-isolated radiation filter reduces heat to the minimum level.

High definition rippled panel is made of shock-resistant and heat-resistant PC material. The imported aluminum reflecting mirror makes light softer and more well-proportioned and increasing safety. CPU is adopted for the control, capable of increasing or decreasing and boasting brightness memory. When the main bulb malfunctions, the standby bulb will come into operation within 1/2 second. The major and auxiliary bulbs can be replaced easily. The dischargeable handle sheath can be sterilized in steam sterilizer.

Imported aluminum sheet squamulose reflector and transparent panel are adopted. Average service life of imported lamp receptacle and bulb can reach 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

160000 ≥ Ec ≥80000

Color Temperature

4500±500

Diameter of Spot

d10175±35mm

Depth of light beam

≥700

Brightness adjustment

CPU light-dimmer

The value of the total irradiance

<6mW/m² lx

Diameter of lamp holder

600

Shift of major and stand by lamps

Automatic

Bulb power

150

Power supply

220±10% 50Hz

Input power

200

Minimum height for installation (mm)

2800~3200

22. WH600-II (Wall type)



WH600-II (Wall type) shadowless operating lamps meet the requirements of various surgical operations. It is an ideal lighting facility for surgical operations.

In the reflector system designed in CAD, color and temperature are close to that of sunlight so that the tissue surface is visible under natural color. The depth of tubular light beams reach up to over 700mm, therefore the well-proportioned illumination effectively eliminates shadows under any circumstance;

Special heat-isolated radiation filter reduces heat to the minimum level.

High definition rippled panel is made of shock-resistant and heat-resistant PC material. The imported aluminum reflecting mirror makes light softer and more well-proportioned and increasing safety. CPU is adopted for the control, capable of increasing or decreasing and boasting brightness memory. When the main bulb malfunctions, the standby bulb will come into operation within 1/2 second. The major and auxiliary bulbs can be replaced easily. The dischargeable handle sheath can be sterilized in steam sterilizer.

Imported aluminum sheet squamulose reflector and transparent panel are adopted. Average service life of imported lamp receptacle and bulb can reach 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

160000 ≥ E_c ≥ 80000

Color Temperature

4500±500

Diameter of Spot

φ10175±35mm

Depth of light beam

≥700

Brightness adjustment

CPU light-dimmer

The value of the total irradiance

<6mW/m² lx

Diameter of lamp holder

600

Shift of major and stand by lamps

Automatic

Bulb power

150

Power supply

220±10% 50Hz

Input power

200

Minimum height for installation (mm)

2800~3200

23. WH600-600-II



WH600-600-II shadowless operating lamps meet the requirements of various surgical operations. It is an ideal lighting facility for surgical operations.

In the reflector system designed in CAD, color and temperature are close to that of sunlight so that the tissue surface is visible under natural color. The depth of tubular light beams reach up to over 700mm, therefore the well-proportioned illumination effectively eliminates shadows under any circumstance;

Special heat-isolated radiation filter reduces heat to the minimum level.

High definition rippled panel is made of shock-resistant and heat-resistant PC material. The imported aluminum reflecting mirror makes light softer and more well-proportioned and increasing safety. CPU is adopted for the control, capable of increasing or decreasing and boasting brightness memory. When the main bulb malfunctions, the standby bulb will come into operation within 1/2 second. The major and auxiliary bulbs can be replaced easily. The dischargeable handle sheath can be sterilized in steam sterilizer.

Imported aluminum sheet squamulose reflector and transparent panel are adopted. Average service life of imported lamp receptacle and bulb can reach 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

$160000 \geq E_c \geq 80000$

Color Temperature

4500±500

Diameter of Spot

φ10175±35mm

Depth of light beam

≥700

Brightness adjustment

Stepless adjustment of light

The value of the total irradiance

<6mW/m² lx

Diameter of lamp holder

600/600

Shift of major and stand by lamps

Automatic

Bulb power

150/150

Power supply

220±20% 50Hz

Input power

400

Minimum height for installation (mm)

2800~3200

24. WH600-I



WH600-I shadowless lamps meet the requirements of various surgical operations. It is an ideal lighting facility for surgical operations.

Reflector system designed in CAD; color temperature close to that of sunlight; making the tissue surface visible under natural color; depth of tubular light beams up to over 700mm; uniform illumination effectively eliminating shadows under any circumstance.

Special heat-isolated radiation filter reduces heat to the minimum level.

Rippled panel made of shock-resistant and heat-resistant PC material, making light soft, uniform and increasing safety, CPU is adopted for the control, capable of increase or decrease . Light adjust system adopts stepless adjust. When the main bulb malfunctions, the stand bybulb will come into operation with the handle.

The major and auxiliary bulbs can be replaced easily.

Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

$160000 \geq E_c \geq 80000$

Color Temperature

4500 ± 500

Diameter of Spot

$\phi 10175 \pm 35\text{mm}$

Depth of light beam

≥ 700

Brightness adjustment

Stepless adjustment of light

The value of the total irradiance

$< 6\text{mW/m}^2 \text{ lx}$

Diameter of lamp holder

600

Shift of major and stand by lamps

Hand-operated

Bulb power

150

Power supply

$220 \pm 10\%$ 50Hz

Input power

220

Minimum height for installation (mm)

2800~3200

25. WH600-600-I



WH600-600-I shadowless lamps meet the requirements of various surgical operations. It is an ideal lighting facility for surgical operations.

Reflector system designed in CAD; color temperature close to that of sunlight; making the tissue surface visible under natural color; depth of tubular light beams up to over 700mm; uniform illumination effectively eliminating shadows under any circumstance.

Special heat-isolated radiation filter reduces heat to the minimum level.

Rippled panel made of shock-resistant and heat-resistant PC material, making light soft, uniform and increasing safety, CPU is adopted for the control, capable of 8-step increase or decrease . Light adjust system adopts stepless adjust. When the main bulb malfunctions, the stand bybulb will come into operation with the handle.

The major and auxiliary bulbs can be replaced easily.

Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

$160000 \geq E_c \geq 80000$

Color Temperature

4500±500

Diameter of Spot

d10175±35mm

Depth of light beam

≥700

Brightness adjustment

Stepless adjustment of light

The value of the total irradiance

<6mW/m² lx

Diameter of lamp holder

600/600

Shift of major and stand by lamps

Hand-operated

Bulb power

150/150

Power supply

220±10% 50Hz

Input power

440

Minimum height for installation (mm)

2800~3200

26. WH500-II



WH500-II shadowless lamps meet the requirements for all circumstances of surgical operations. It is an ideal lighting facility for modern surgical operations.

Reflector system designed in CAD; color temperature close to that of sunlight; making the tissue surface visible under natural color; depth of tubular light beams up to over 700mm; uniform illumination effectively eliminating shadows under any circumstance;

Special heat-isolated radiation filter reduces heat to the minimum level.

Rippled panel made of shock-resistant and heat-resistant PC material, The imported aluminum reflecting mirror can make light soft, uniform and increasing safety. Light adjustment circuit adopts CPU control; and the illumination has increase or decrease and has illumination memory.

One lamp holder with two bulbs is the feature of the design. When the main bulb malfunctions, the standby bulb will get into operation within 1/2 second to ensure the normal medical operation. On the panel, there is indicator for the malfunction of the major and standby bulbs. The bulbs can be easily replaced. The dischargeable handle can be conveniently cleaned and sterilized.

Titanium main arm is adopted. Imported lamp receptacle, Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m² lx
Diameter of lamp holder	500
Shift of major and stand by lamps	Automatic
Bulb power	150
Power supply	220±20% 50Hz
Input power	200
Minimum height for installation (mm)	2800~3200

27. KL500-II (AC-DC)



WH500-II (AC-DC) shadowless lamps meet the requirements for all circumstances of surgical operations. It is an ideal lighting facility for modern surgical operations.

Reflector system designed in CAD; color temperature close to that of sunlight; making the tissue surface visible under natural color; depth of tubular light beams up to over 700mm; uniform illumination effectively eliminating shadows under any circumstance.

Special heat-isolated radiation filter reduces heat to the minimum level.

WH500-II (AC-DC) rippled panel made of shock-resistant .

Light adjustment circuit adopts CPU control; and the illumination has increase or decrease and has illumination memory.

One lamp holder with two bulbs; the standby lamp will start operation within 1/2 second when the major one malfunctions, ensuring the continuation of surgical operation. Handle panel has indicator for the damage of major and standby lamps. Major and standby bulbs can be changes easily; dischargeable handle sheath can be sterilized in steam sterilizer. The stand type device which can move with skid is very convenient and isn't limited by the

operation field. At the same time, it also can match the DC current to use.(Handing over the direct current power box is to chooses the accessories.)

Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

$$160000 \geq E_c \geq 80000$$

Color Temperature	4500±500
Diameter of Spot	d10175±35mm
Depth of light beam	≥700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	500
Shift of major and stand by lamps	Automatic
Bulb power	150
Power supply	220±10% 50Hz
Input power	200

28. WH500-III (AC-DC)



WH500-III (AC/DC) shadowless lamps meet the requirements for all circumstances of surgical operations. It is an ideal lighting facility for modern surgical operations.

Reflector system designed in CAD; color temperature close to that of sunlight; making the tissue surface visible under natural color; depth of tubular light beams up to over 700mm; uniform illumination effectively eliminating shadows under any circumstance.

Special heat-isolated radiation filter reduces heat to the minimum level.

KL500-II rippled panel made of shock-resistant and KL500-III transparent panel (optionally polished panel) heat-resistant PC material, making light soft, uniform and increasing safety.

Light adjustment circuit adopts CPU control; and the illumination has increase or decrease and has illumination memory.

One lamp holder with two bulbs; the standby lamp will start operation within 1/2 second when the major one malfunctions, ensuring the continuation of surgical operation. Handle panel has indicator for the damage of major and standby lamps. Major and standby bulbs can be changed easily; dischargeable handle sheath can be sterilized in steam sterilizer.

The stand type device which can move with skid is very convenient and isn't limited by the operation field. At the same time, it also can match the DC current to use.(Handing over the direct current power box is to chooses the accessories.)

Tungsten halogen bulbs of international brand are adopted with the average service life up to 1500 hours.

Technical Specifications:

Illumination Lx(at the distance of 1m)

	$160000 \geq E_c \geq 80000$
Color Temperature	4500 ± 500
Diameter of Spot	$d10175 \pm 35\text{mm}$
Depth of light beam	≥ 700
Brightness adjustment	CPU light-dimmer
The value of the total irradiance	$< 6\text{mW/m}^2 \text{ lx}$
Diameter of lamp holder	500
Shift of major and stand by lamps	Automatic
Bulb power	150
Power supply	$220 \pm 10\%$ 50Hz
Input power	200

29. WH900-III



WH900-III shadowless operation lamps adopts light bulbs imported from Germany as the lighting source, which illuminates the object of operation through a CAD-designed catoptric system. The grade of the light approaches that of sunlight; and the depth of light beam is over 700mm. In the control system, the bulbs have cold start, and can have automatic switch when damaged. When the control system is damaged, there is an emergency function for normal operation.

Technical Specifications:

Illumination Lx(at the distance of 1m)

$$160000 \geq E_c \geq 120000$$

Color Temperature	4500±500
Diameter of Spot	d10175±35
Depth of light beam	≥700
Brightness adjustment	Stepless adjustment of light
The value of the total irradiance	<6mW/m ² lx
Diameter of lamp holder	900
Shift of major and stand by lamps	Automatic
Bulb power	250
Power supply	220±10% 50Hz
Input power	350
Minimum height for installation (mm)	2800~3200