



SINOMECH SINGAPORE PTE LTD



OPERATING THEATRE *LIGHTS*



SINOMECH SINGAPORE PTE LTD

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The latest model LED 9 Operating Theatre Lights



LED 9DL (Suitable for low ceiling application)

LED 9 major operating Lights have been developed by the latest technology of the latest generation of warm white LED illuminance, perfect CRI and color temperature, and made in extremely flat and flower shape to fit for laminar flow environment with the following excellent features and value-added functions. The lights can be used for all kinds of Major Surgery and Endoscopic Surgery. We can customize the central axial unit and spring arm to cater for normal ceiling height, low ceiling height and extreme low ceiling height.



• **The widest ranges of illumination cater to different needs**

You can adjust the light intensity from 8 Klux to 160 Klux for varies usage in different operating theatres.

• **Perfect shadow free illumination**

Five flower-shaped light cells installed in the specially calculated shape of the lighthead to provide the perfect shadowless illumination to surgeons for the comfortable operation.

• **Special design for the requirement of laminar flow operating rooms**

The shape of the flat body and each cell of the lighthead guarantees the best air circulation horizontally/vertically without any obstruction. The lights provide the best laminar flow circulation for all kinds of operating rooms.

• **The latest generation of LED illuminance**

We supply the lights with the latest generation of warm white LED illuminance to guarantee the best Color Rendering Index and Color Temperature which are silimar to the natural sun light at 12pm noon.

• **Advanced Full HD camera system**

You can choose either an analog or digital camera installed at the centre of the light or on a separat arm. The video from both analog and digital camera can be finally viewed in your network PCs anywhere in the hospital. Live multimedia teaching in the conference room becomes just a simple and easy connection with a single network cable. The camera with CCD sensor to guarantee the true color, realistic and super resolution images on your monitor.

• **Field focus adjusted by control panel**

Field focus adjusted by control panel to allow the function of field focus adjustment still works when the lighthead installed by centrally integrated camera.

• **Endoscopic Surgery**

Green light available for Endoscopic Surgery with three grades intensity adjustment. To switch over between major surgery and Endo surgery is by control panel.

• **Sterilizable handle is made by PPSU**

The sterilizable handle is made by PPSU plastic material which will not soften at the temperature up to 280 degree Celsius. This feature will prevent the mis-operation to cause the handle being heated distortion inside the high temperature Sterilizer.



LED 9SV (With integrated HD digital camera system)

Optical and technical specification	LED 9
Intensity @ 1 meter (Lux)	160,000
Field diameter (cm)	20-38
Depth of the volume of light L1+L2 (cm)	110
Color Rendering Index (CRI)(Ra)	97
Color temperature (K)	4,300
Intensity control (%)	25-100
Type of intensity control	By control panel
Type of field focusing control	By control panel
Numbers of LEDs	108
Endoscopic Surgery	Green light
Type of Endo Surgery control	By control panel

Electrical and mechanical specification	LED 9DV
Power supply input voltage (VAC)	100-240
Power consumption (W)	300
Frequency (Hz)	50-60
Diameter of lighthouse (mm)	700
Analog video camera HD (Optional)	Centrally integrated/separate arm
Digital video camera HD (Optional)	Centrally integrated/separate arm
LED service life (hrs)	50,000
2nd/3rd arm with monitor	As per request
Mobile type	Yes
Mobile type with emergency battery back-up (hrs)	4



LED 9DV



LED 9 M/MA
(Mobile/Mobile with battery back up)

Camera system specification	HD Digital	HD Analog
Sensor	1/2.8" CMOS	1/4" CCD
Effective pixels	1,920(H) x 1,080(V)	752(H) x 582(V)
Resolution	1080P	720P
Aspect ratio	16:9	4:3
S/N ratio (dB)	52	52
Lens zoom	30X Optical/16X Digital	43X Optical/16X Digital
Aperture	F1.4(wide)/F4.7(tele)	F1.65(wide)/F3.7(tele)
Antiflicker	Yes	Yes
Autofocus	Yes	Yes
Type of iris	Auto	Auto
Signal outputs	Network	Video, Network by control box
Local control	N/A	Yes
Remote control	Yes	Yes
Audio collection	Optional	Optional

The products are CE certified and manufactured at ISO 13485 certified factory.

LED 3 and LED 5 Operating Theatre Lights



LED 3 and LED 5 Surgical/Operating Lights have been developed by the latest technology of the latest generation of warm white LED illuminance, perfect CRI and color temperature, and made in flower shape to fit for laminar flow environment with the following excellent features and value-added functions. We can customize the central axial unit and spring arm to cater for normal ceiling height, low ceiling height and extreme low ceiling height.





LED 3D

Optical and technical specification	LED 5	LED 3
Intensity @ 1 meter (Lux)	160,000	100,000
Field diameter (cm)	17-30	17-30
Depth of the volume of light L1+L2 (cm)	110	105
Color Rendering Index (CRI)(Ra)	96	96
Color temperature (K)	4,300	4,300
Intensity control (%)	25-100	25-100
Type of intensity control	By control panel	By control panel
Type of field focusing control	By sterilizable handle	By sterilizable handle
Numbers of LEDs	95	57





LED 53D



LED 5D



LED 5S

Electrical and mechanical specification	LED 5	LED 3
Power supply input voltage (V)	100-240	100-240
Power consumption (W)	320	192
Frequency (Hz)	50-60	50-60
Diameter of lighthead (mm)	700	700
Analog video camera HD (Optional)	Centrally integrated/separate arm	Centrally integrated/separate arm
Digital video camera HD (Optional)	Centrally integrated/separate arm	Centrally integrated/separate arm
LED service life (hrs)	50,000	50,000
2nd/3rd arm with monitor	As per request	As per request
Mobile type	Yes	Yes
Mobile type with emergency battery back-up (hrs)	3	5

Camera system specification	HD Digital	HD Analog
Sensor	1/2.8" CMOS	1/4" CCD
Effective pixels	1,920(H) x 1,080(V)	752(H) x 582(V)
Resolution	1080P	720P
Aspect ratio	16:9	4:3
S/N ratio (dB)	52	52
Lens zoom	30X Optical/16X Digital	43X Optical/16X Digital
Aperture	F1.4(wide)/F4.7(tele)	F1.65(wide)/F3.7(tele)
Antiflicker	Yes	Yes
Autofocus	Yes	Yes
Type of iris	Auto	Auto
Signal outputs	Network	Video, Network by control box
Local control	N/A	Yes
Remote control	Yes	Yes
Audio collection	Optional	Optional

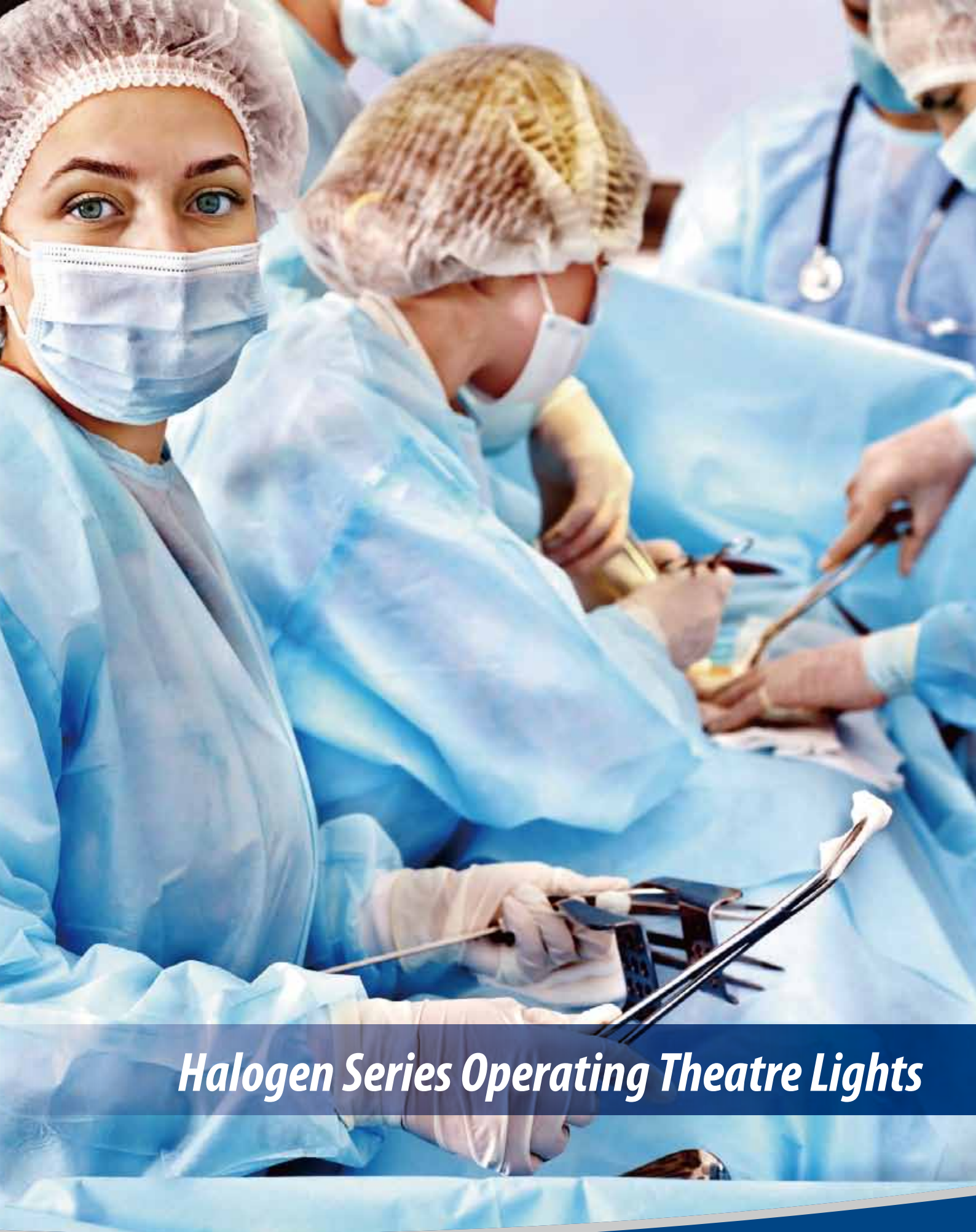
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LED 3M/MA



LED 5M/MA



Halogen Series Operating Theatre Lights



S750D

Halogen Series Operating Theatre Lights have been developed by the latest technology of multi-reflectors, shading tube, and medical grade hologen bulbs with the following excellent features and value-added functions.



• **Different ranges of illumination cater to different needs**

You can choose from 160 Klux to 80 Klux as the maximum intensity for various usage in different operating theatres, minor surgery rooms and veterinary clinics.

• **Perfect shadow free illumination**

Multi-reflectors Focusing Technology installed in the specially calculated shape of the lighthouse to provide the perfect shadowless illumination to surgeons for the comfortable operation.

• **Minimum temperature increase**

内容: The shape of the lighthouse and the column type bulb seat guarantee the best air circulation to minimize the temperature increase on surgeon's head during operation.

• **100% free of eye dazzling**

Shading Tube Technology can isolate 100% downwards light (the light not action on the reflector) from the bulb to prevent the eyes of surgeons and nurses to be effected by light diffusion.

• **Advanced Full HD camera system**

You can choose either an analog or digital camera installed at the centre of the light or on a separate arm. The video from both analog and digital camera can be finally viewed in your network PCs anywhere in the hospital. Live multimedia teaching in the conference room becomes just a simple and easy connection with a single network cable. The camera with CCD sensor to guarantee the true color, realistic and super resolution images on your monitor.

• **Sterilizable handle is made by PPSU**

The sterilizable handle is made by PPSU plastic material which will not soften at the temperature up to 280 degree Celsius. This feature will prevent the mis-operation to cause the handle being heated distortion inside the high temperature Sterilizer.



S 700S

Optical and technical specification	Hal 700	Hal 500
Intensity @ 1 meter (Lux)	160,000	80,000
Field diameter (cm)	18-35	18-35
Depth of the volume of light L1+L2 (cm)	110	105
Color Rendering Index (CRI)(Ra)	95	95
Color temperature (K)	4,300	4,300
Intensity control (%)	25-100	25-100
Type of intensity control	By control panel	By control panel
Type of field focusing control	By sterilizable handle	By sterilizable handle
Numbers of bulb	One main, one standby	One main, one standby



S 700D



S 500D



S 500S

Electrical and mechanical specification	Hal 700	Hal 500
Power supply input voltage (V)	100-240	100-240
Power consumption (W)	150	100
Frequency (Hz)	50-60	50-60
Diameter of lighthouse (mm)	700	500
Analog video camera HD (Optional)	Centrally integrated/separate arm	Centrally integrated/separate arm
Digital video camera HD (Optional)	Centrally integrated/separate arm	Centrally integrated/separate arm
Bulb service life (hrs)	2,000	2,000
2nd/3rd arm with monitor	As per request	As per request
Mobile type	Yes	Yes
Mobile type with emergency battery back-up (hrs)	6	8

Camera system specification	HD Digital	HD Analog
Sensor	1/2.8" CMOS	1/4" CCD
Effective pixels	1,920(H) x 1,080(V)	752(H) x 582(V)
Resolution	1080P	720P
Aspect ratio	16:9	4:3
S/N ratio (dB)	52	52
Lens zoom	30X Optical/16X Digital	43X Optical/16X Digital
Aperture	F1.4(wide)/F4.7(tele)	F1.65(wide)/F3.7(tele)
Antiflicker	Yes	Yes
Autofocus	Yes	Yes
Type of iris	Auto	Auto
Signal outputs	Network	Video, Network by control box
Local control	N/A	Yes
Remote control	Yes	Yes
Audio collection	Optional	Optional

The products are CE certified and manufactured at ISO 13485 certified factory.



S 500M/MA



S 700M/MA

NEW PRODUCT!

THE LOWEST PRICE OF LED OT LIGHT GUARANTEED!



LED 600S

Optical and technical specifications	LED 600S
Intensity @ 1 meter (Lux)	160,000
Field diameter (cm)	28
Depth of the volume of light L1+L2 (cm)	105
Color Rendering Index (CRI) (Ra)	96
Color temperature (K)	4300
Intensity control (%)	25-100
Type of intensity control	By control panel
Numbers of bulb	40 pcs
Material of sterilizable handle	PPSU



LED 600D

Optical and technical specifications	Main
Power supply input voltage (V)	100-240
Power consumption (W)	200
Frequency (Hz)	50-60
Diameter of lighthouse (mm)	600
Analog video camera HD (Optional)	Centrally integrated/separate arm
Digital video camera HD (Optional)	Centrally integrated/separate arm
LED service life (hrs)	50,000
2nd/3rd arm with monitor	As per request
Mobile type	Yes
Mobile type with emergency battery back-up (hrs)	8

Optical and technical specifications	Main	Satellite
Intensity @ 1 meter (Lux)	160,000	160,000
Field diameter (cm)	28	28
Depth of the volume of light L1+L2 (cm)	105	105
Color Rendering Index (CRI) (Ra)	96	96
Color temperature (K)	4300	4300
Intensity control (%)	25-100	25-100
Type of intensity control	By control panel	By control panel
Numbers of bulb	40 pcs	40 pcs
Material of sterilizable handle	PPSU	PPSU



LED 600M/ LED 600MA



LED 600DV-3

LED 600 Surgical/Operating Lights