

# Operating Light



# RUBIN Series

## LED Operating Light



### HD Camera System

- HD Camera:  
1080P, Real Full HD Camera System  
1920\*1080 pixels of resolution  
16:9 aspect ratio
- Remote Control
- Medical Monitor
- DVR: Operating Room Integrated Control System. Can control lamps and camera, can record, store and transfer video signals to achieve live broadcasting and teaching, capacity of 1000GB.





## Technical Data

## RUBIN

Central Illuminance (Lux)	160,000
Color Rendering Index(Ra)	>95
Color Temperature(K)	A:4500 B:3500 4000 4500 5000(Optional)
Focusable Light-field Size (mm)	150-300
Effective Bulb Service Life(hour)	>60,000
Diameter Lamp Housing(mm)	700
Lighting Depth L1+L2(mm)	>1000
Power(W)	80
MIS Endoscopy Lighting	Available

- Using German Osram medical led;
- Excellent Color Restoration;
- The central illumination and light spot can be adjusted through the control panel;
- The excellent lighting depth and shadowless effect can extremely convenient the doctors to operate under different lighting depth;
- Extremely long effective working life-over 60000 hours;
- Long Working Life, High Reliability, Lower Cost;
- Compact Design For Easy Operation;
- With 360°rotation and light arm, ensures the light to be moved easily and freely;
- Dischargeable handle can be sterilized by autoclave ;

# SAPHIR Series

## LED Operating Light



- The light can satisfy different light spot requirements through its special optical software design.
- The unique spectral optical filter ensures the excellent color restoration.
- The energy-saving LED element with lowest heat emission features and cool light characteristic ensures the low surgical field temperature risen.
- The excellent lighting depth and shadowless effect makes the operations under different lighting depth more convenient.
- Using German Osram medical led.
- With over 50,000 hours effective working life, PD lights can extremely save the maintenance cost.
- Easy for cleaning and can save more space through its streamline and ultrathin appearance design.
- The detachable handle can be sterilized by autoclave.
- With 360° rotation and light arm, ensures the light to be moved easily and freely.



Technical Data	SAPHIR	SAPHIR
Central Illuminance (Lux)	160,000	120,000
Color Rendering Index(Ra)	>95	>95
Color Temperature(K)	A:4500 B:3500 4000 4500 5000(Optional)	4300
Focusable Light-field Size (mm)	150-300	100-200
Effective Bulb Service Life(hour)	60,000	60,000
Diameter Lamp Housing(mm)	700	420
Lighting Depth(mm)	>1000	>1400
Power(W)	126	36
MIS Endoscopy Lighting	Available	Unavailable

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# PERLE Series

## LED Operating Light



### **New LED Technology from OSRAM Germany**

- Adopting ITOS new LED lighting source from OSRAM Germany, achieving the leading level of optics performance.
- Through the lighting twice reflection to have excellent lighting depth and shadowless effect.
- High color rendering index extremely restore naturally all colors.
- Excellent cold lighting source.
- Extremely long effective working life—over 30000 hours.
- Stable and light arms ensure the light to be moved easily and freely.
- The detachable handle can be sterilized by autoclave.



## Option: HD Camera System

Technical Data	PERLE 700	PERLE 500
Lighting Source	OSRAM ITOS SL	OSRAM ITOS ME
Central Illuminance (Lux)	160,000	120,000
Color Rendering Index(Ra)	96	96
Color Temperature(K)	4300	4300
Focusable Light-field Size (mm)	160-260	140-250
Effective Bulb Service Life(hour)	60,000	60,000
Diameter Lamp Housing(mm)	700	500
Lighting Depth(mm)	1100	1100
Power Voltage(V/Hz)	220V-240V /60Hz	220V-240V /60Hz
Power for Bulb(W)	80W	60W



# MALACHIT Series

## Multi-Reflector

### Operating Light



- MALACHIT series operating light is an ideal lighting device for various operations in hospital
- Full-enclosed structure and streamlined of the lamp head, sufficiently meets the high sterilization and purification standard of operation room
- The light beam with over 3000 specialized reflectors ensures the focus depth to 700mm
- Color temperature approaching that of sunlight, making the tissue surface visible in natural color, can helps the doctor to distribute the operation parts clearly and accurately
- Permanent light safety, the standby lamp will start work within 0.2seconds automatically when the main lamp is damaged, ensuring the continuation of surgical operation. Control panel has indicator for the damage of major and standby lamps



Technical Data	MALACHIT700	MALACHIT500
Central Illuminance (Lux)	50000-150000	40000-120000
Color Rendering Index(Ra)	≥95	≥95
Color Temperature(K)	4300	4300
Power Voltage(V/Hz)	~220/50	~220/50
Power for Bulb (W)	150	100
Light-adjusting Mode	stepless adj.	stepless adj.
Focusable Light-field Size	160-250	140-200
Effective Bulb Service Life(hour)	60000	60000
Illuminance Depth(mm)	1000	1000
Diameter Lamp Housing(mm)	700	500
Installation Height(mm)	2900	2900

- The dischargeable handle can be sterilized conveniently with high-temperature and high-pressure
- Digital-control circuit offers many functions, such as stepless lighting regulation, brightness memory, low voltage start-up and power on self test etc.
- The life-span of OSRAM halogen bulb is up to 60000 hours; the bulbs can be changed easily.

# GRANAT Series

## LED Medical Light



Technical Data	GRANAT30	GRANAT30K
Max. central illumination at 1m	70000	70000
Number of LEDs	20	20
Colour rendering index (Ra)	≥95	≥95
Colour temperature (K)	4300	3500-5000
Light-field size (mm)	200	200
Service life LED (h)	≥60000	≥60000
Diameter of lamp cupola (mm)	300	300
Depth of illumination (mm)	≥1800	≥1800
Power supply(V/Hz)	AC220V-240V /60Hz	AC220V-240V /60Hz
Power consumption (w)	20w	20w

- GRANAT 30 LED medical light can be widely used in hospital theatres, outpatient emergency treatment, gynecology & obstetric, dental clinic, medical examination, post-operation rehabilitation, medical beauty, pet clinic, medical training, etc;



- - Molded manufacturing for entire module structure;
- - Central illumination of 70000lx at 1 meter;
- - Long effective service life-time of more than 60000 hours;
- - Perfect optical illumination depth to meet deep cavity lighting requirement;
- - Brightness control and color temperature adjustment on the control panel;
- - The detachable handle can be sterilized in autoclave.

# QUARZ Series

## LED Medical Light

- QUARZ 1000 LED surgical light is the ideal light for examinations and minor surgical procedures at physicians' practices, clinics and hospitals;
- Available in three configurations - Mobile, Wall Mounting and Ceiling Mounting.



### Technical Data

Central illuminance Ec at 1 m:	100000Lux
Colour temperature:	4500k
Colour rendering index Ra:	>94
Power consumption:	33W
Service life LED:	>60000 h
Power supply:	220 - 240V AC/ 60 Hz

## MONDSTEIN Examination Light

- ELD examination light uses LED technology which is the world's leading technology to provide a suitable illumination and color temperature and other high quality optical performance.
- It can effectively increase the light life and performance.

### Technical Data

Voltage/Frequency(V/HZ)	220-240 VAC 60 HZ
Central Illuminance (Lux)	15000lux(0.4 Meter)
Color Temperature(K)	5000±500k



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