

## OL9600 Series LED Surgical Light

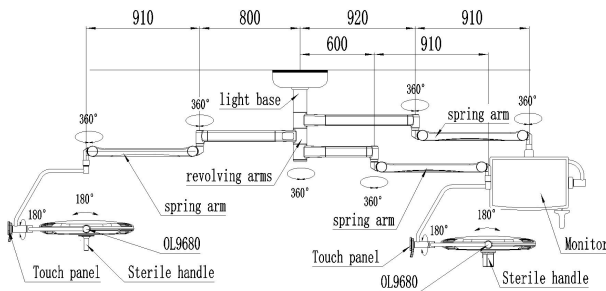
### Standard

OL968080, OL9680, OL968080HD, OL9680HD

with monitor (optional)

(Based on customer needs, can customize the configuration)

## Structure



## Features

**Performance:** A light is intuitively easy to use and generates no shadows and overheating, and has optimized airflow design for better hygiene.

**Quality:** transparent light screen special coated, imported spring arm etc, all surfaces are easy to clean and sterilization.

**Precise:** The light spot is controlled by the sterilized handle, offering up to 500mm light spot diameter up to 1500mm light depth and up to 160000lux intensity, see into cavities as clearly as surface.

**Clearness:** White color LEDs, offering totally faithful color rendering with no colored cast shadows, guarantee the tissue clearness. Green color LEDs, offering a perfect illumination environment of Endoscopic surgeries.

**Safety:** The Multi reflector cup controlled separately, one failure can't cause the whole light malfunction, ensures the surgery safety.

**Comfortable:** color temperature about 3000-5700K, similar to natural light, surgeons will get unparalleled comfort and fatigue free operating experience.

**Durable:** Long LED life expectancy (up to 100,000hours) delivers product reliability and investment protection.

**Efficient:** low power consumption and durable LEDs minimize the impact on our environment.

**Adaptability:** Illumination adjustment (10 grades),

Light spot adjustment by motor, Shading illumination compensation, ambient lighting features, Infrared induction control, SD HD compatible.

## Components

OL96 Series LED surgical shadowless light are composed of a light base, revolving arms, spring arms, light heads (OL9680: 800mm diameter) and camera system (SD : standard definition, HD: high definition.)

## Physical

Large lighthouse : 114 pcs LED, Diameter 800mm, 20kg.

One revolving arm: length 900mm, 28kg.

Two revolving arm: length 1020mm, 42kg.

Three revolving arm: length 1020mm, 56kg.

Imported spring arm: length 1000mm, 6.6kg.

Base: 11kg.

HD monitor: 627\*427\*101mm, 8.27kg.

## Revolving Angle

Revolving Arm: vertical axis 360°

Spring Arm: Vertical axis 360° ,horizontal axis 45°

Lighthouse: vertical axis 360° , horizontal axis 180°

## Control panel

Touch screen, with a 4.3 inch TFT screen, which can adjust the illumination and light spot diameter. Additional, it has the menu optional function of Background light, Induction control, Shading compensation and so on.

## Technical

### OL9680 (Large Lighthouse)

Illumination: 160000Lux

Color Temp: 3000~5700

Color rendering index Ra: 98% R9: 98%

Diameter of light spot d10(min) 160mm±20%

Diameter of light spot d10(max) 500mm±20%  
LED Power: 450VA  
Illumination Depth: 1500mm±20%  
(60% of central illumination)  
LED Service Life 100000hours  
Illumination of background light: 50Lux  
Standard installation height 3m, minimum installation height 2.6m  
Temperature rise in surgical area surface  $\leq 1.5^{\circ}\text{C}$   
Temperature rise in surgeon's head  $\leq 1^{\circ}\text{C}$

**HD Camera SONY FCB-H11**

Dimension : 120x60x70(mm)  
Working Temp : 0°C ~ 50°C ;  
Working humidness : <90%  
Input voltage : DC12V  
Power : 5W/DC  
Focusing modes : Auto/Manual/PushLock, 20X Optical zoom , 12X Digital Zoom  
2380000 pixels  
Visual angle : 59.5° ( Wide-end ) - 3.3° ( tele-end )

Video output : HD 1080P/60  
1/2.8 CMOS sensor

**HD Monitor 90R0029-26" RADIANCE HD**

Dimension: 627x427x101(mm)  
Resolution 1920×1200,  
Brightness:400cd/m<sup>2</sup>,  
contrast ratio1000:1,  
Digital and analog compatible,  
Response time 5~12ms  
Visual angle:178°  
Input voltage: 22~24V/DC  
Power: 115W;  
weight: 8.27Kg;  
Working Temp: 0°C~40°C;  
Working humidness: 20%~85%

## Electromagnetic compatibility

EN60601-1

## Store,Transportation

Temperature -40°C ~ 55°C  
Humidness  $\leq 97\%$   
Atmospheric pressure 500hPa ~ 1060hPa

## Environment

Power voltage: 220V ~ , 50Hz ~ 60HZ  
Environment temperature: 10-30°C ;  
Environment Humidness:10-80%.  
Standard installation height: 3M  
Safety type of this device: Class II  
The lighthouse of LED uses the special low voltage of 24V.  
Working mode: Continuous running.