

# Specification: L 3



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# Surgical Light

## L 3



### Standard Configuration:

Light panel

### Optional:

Independent camera, medical display, wall control

### Physical Characteristics

Size	Lamp panel size: 461mm×490mm×45mm; Cantilever size:1170mm/1045mm/899.5mm/739.5mm, ±10% Flange size: 310mm×256mm/400mm/800mm/ (250mm+120mm+120mm), ±10% Elbow component size: 493mm×266mm(The relative rotation angle is 0°), ±10% Handle size:95mm×95mm×150mm, ±10%
Weight	Lamp panel: 8kg ±2kg (including elbow components)
Control panel	50mm*2mm, ±10%
Screen	Size: 26" screen 1920*1080
Spring Arm Bearing	Onda Space: 8~16kg/15~32kg/20~40kg AC2000:1.5~3.5kg/3.5~7kg/3~6kg/ 7~12kg/8~13kg/9~15kg/ 12~18kg/13.5~21kg AC 77: 1-2.5kg/2.5-4.5kg/4.5~7.5kg/ 7.5~9kg/9~11kg/11~13kg AC LCH: 95~160Nm, 95~176Nm

### Operation Environment

Temperature:	5°C~40°C
Humidity:	0% - 96 %

### Power

requirement: 100-240V ~ , 50/60Hz±1Hz

### Feature

#### Illumination

(All the test distance is one meter from the lamp panel.)

Led Number	15 leds
Central Illumination	40 000 lx ≤ Ec ≤ 130 000 lx Accuracy: small spots (+0, +18 000 lux); big spots (-18 000 lx, +18 000 lux)
Ordinary Spot Diameter (d10)	230mm;Accuracy: ±23%, adjustable 10 levels
Spot distribution	d50/d10 ≥ 50%
Color Temperature	4350±15%, unadjustable
Beam Depth	1250±50mm (20%) 600±50mm (60%)
Color Rendering Index	98(±8%)
Red Rendering Index	97(±8%)
whiteRendering Index	98±8%
yellowRendering Index	99±8%
Irradiance (A meter from a single lamp holder)	Ee≤350W/m2; Ee: Ec≤3.55mW/(m2·lx)
operation mode	Normal mode/endoscopic mode
Endoscopic mode	green/white, 0 ≤ Ec ≤ 500lux,
Temperature Rise of the Head	≤1°C
Temperature Rise of the Surgical Field	≤1°C
Light Source Life	70,000h, 10 Years
Sterile Handle	Dismountable and autoclavable



UV Radiation	≤5.5W/m <sup>2</sup> (wavelength below 400nm)
Irradiance	450±20%W/m <sup>2</sup>
Radiance	<3.55±10% $mW/ (m^2.lux)$
adjustment for illumination	Membrane switch/ Button at the bottom of the handle

**Shadowless Effect**

- Shadowless rate of single shutters: 50%±18%
- Shadowless rate of double shutters: 50%±18%
- deep endoscope shadowless rate of Single shutter: 45%±18%
- Shadowless rate of double shutter deep cavity: 45%±18%
- Deep cavity shadowless rate: 100%±18%

**Angle of rotation and driving force**

- Spring arm moving up and down: 45°(upper), 50°±5° (lower); ≤35N (driving force);
- Upper elbow around the spring arm (X direction): < 360°±5° (angle); ≤25N (driving force);
- Upper elbow around the spring arm ( without X direction): >360°±5° (angle); ≤25N (driving force);
- Lower elbow around the upper elbow (Y direction): < 360°±5° (angle); ≤25N (driving force);
- Lamp panel around the lower elbow (Z direction): 180°±5° (angle); ≤25N (driving force);

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