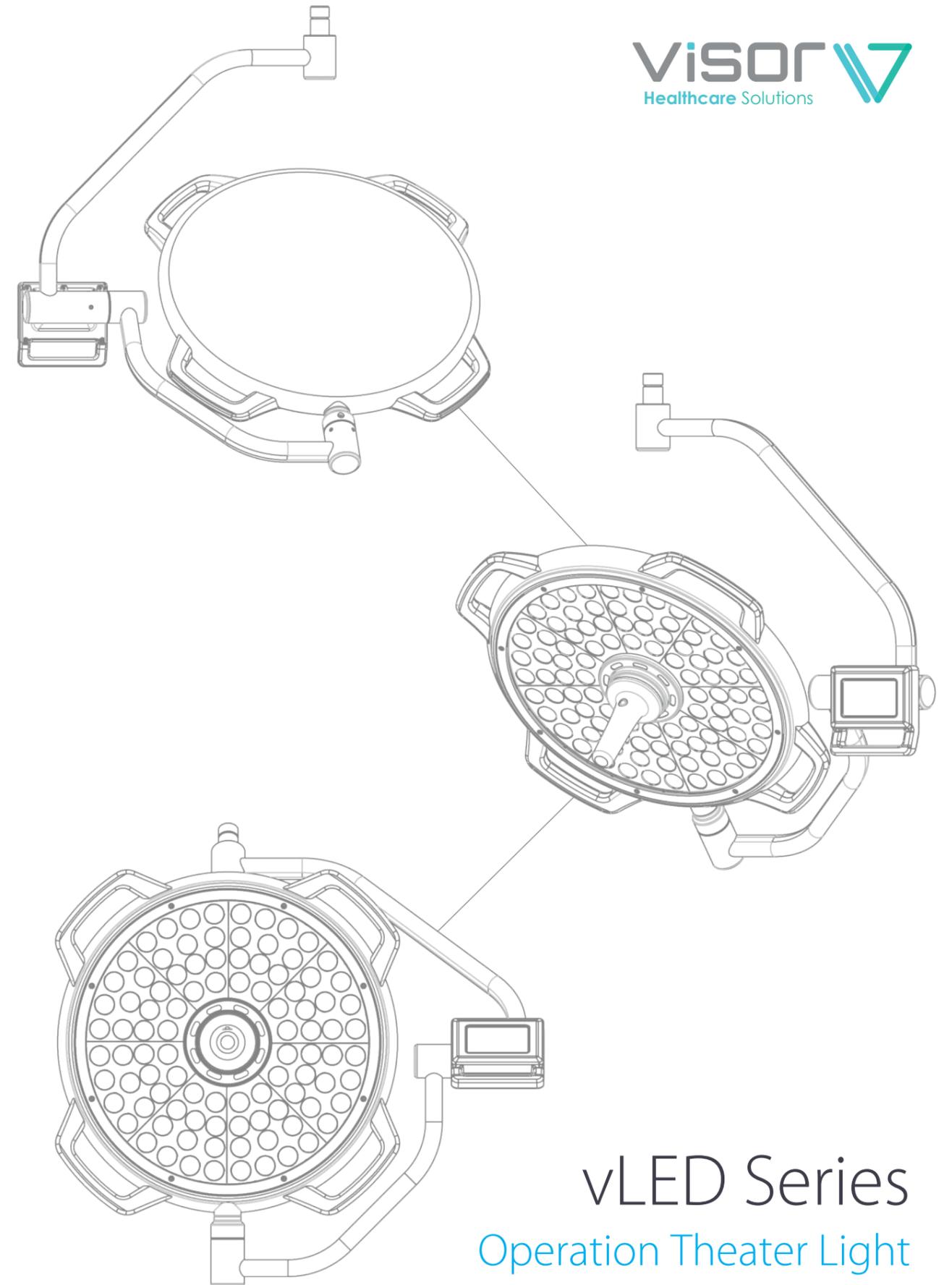




visor
Healthcare Solutions



vLED Series
Operation Theater Light



Evident control panel

It adopts touch sensor control panel to control the strength and ON/OFF of the light through the control panel. It is convenient to operate, and lamp head light transmittance plate is durable, resistant, and effectively reduce the light transmittance drop caused by lightening or daily clean. Lamp head handle can be easily removed, which is convenient for disinfecting and cleaning.



Control Panel



Handle

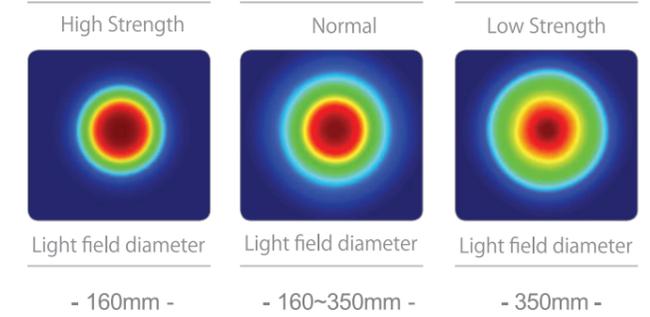


Detachable Sterile Autoclave Handle

Adjustable light field diameter

Adjust the light field diameter size to suit for the operation environment, so that it eliminates the surrounding shadow.

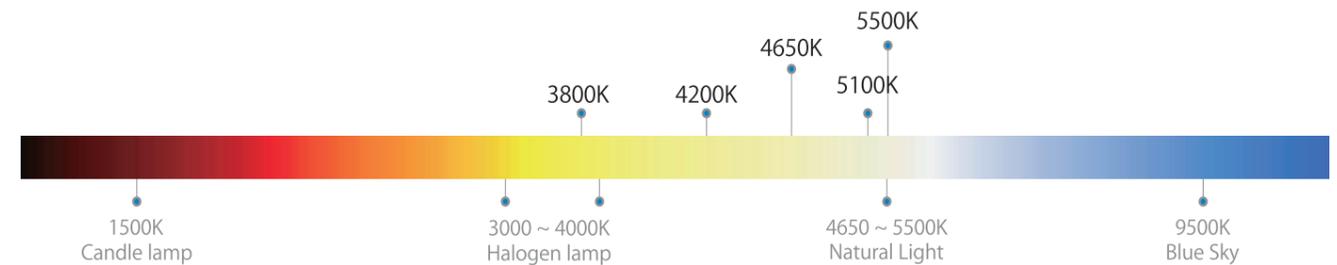
- Max 35cm/Min 16cm
- Continuous adjustment



Color Temperature

The color temperature of the light determines its color. The comparison object is a "black body" (made of platinum). When the light is heated, the correct temperature adds to determine the color temperature. The radiation color of the emitted light is same as the "black body" at a certain temperature. The temperature of the black body is called the color temperature of the light source.

As the black body is heated, the temperature gradually increases, and the black body gradually changes from dark red to red, orange, yellow, and finally to white. And it turns blue in high temperatures. Therefore, the specific color is determined by the corresponding temperature, representing the unit in the absolute temperature K (Kelvin). The Kelvin temperature range starts from absolute 0 degrees Celsius (-459,67 °F / -273 °C)



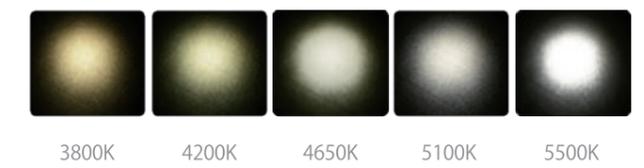
Eliminate the shadow effect

All medical lights will be through shadow elimination testing should ensure appropriate shadowless effect, and this performance is very important for medical operation.



Adjustable color temperature

Five color temperature (3800K/4200K/4650K/5100K/5500K) adjustments will help surgeons find more appropriate, comfortable light color.



vLED 160/140

Ceiling Type

160000lx + 140000lx

Control Panel

Touchable control panel



— COLOR **Color Temperature**
3800K / 4200K / 4650K / 5100K / 5500K

— INTENSITY **Illumination Intensity**
160,000Lux(Max.)

—  **Endo-Mode**
Suitable for endo-surgery by one click, EC*5%

—  **Power Switch**

Handle

Detachable Sterile Autoclave Handle



360° Rotating Arm

R9 Enhance the light source



Uniform light mixture

Decrease heat emission & energy consumption

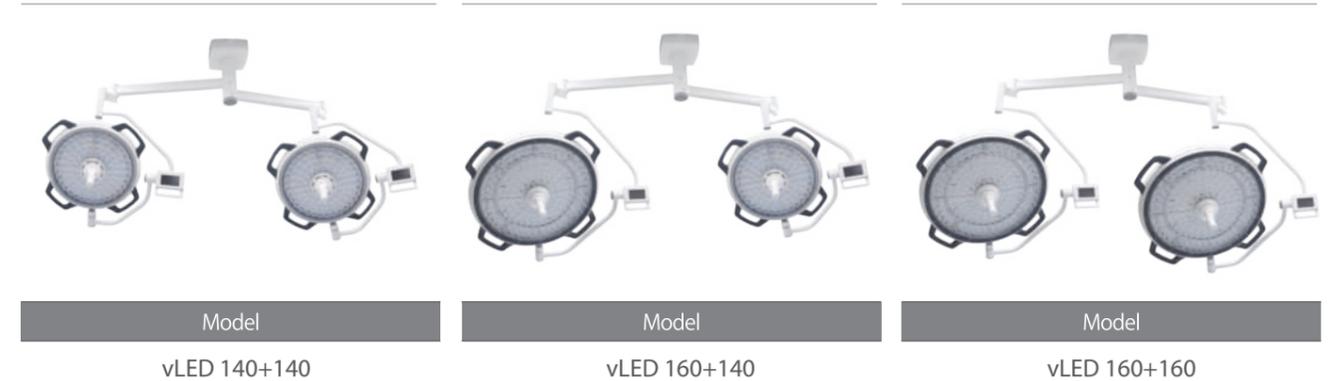


vLED 160

vLED 140

Other Configuration

Model
vLED 160
vLED 140
vLED 140+140
vLED 160+140
vLED 160+160



vLED 160/140

Ceiling Type

160000lx + 140000lx

Control Panel

Touchable control panel



- COLOR **Color Temperature**
3800K / 4200K / 4650K / 5100K / 5500K
- INTENSITY **Illumination Intensity**
160,000Lux(Max.)
- **Endo** **Endo-Mode**
Suitable for endo-surgery by one click, EC*5%
- **Power** **Power Switch**

HD Camera



vLED 160



Camera control

360° Rotating Arm

R9 Enhance the light source



Uniform light mixture

Decrease heat emission & energy consumption



vLED 140

Camera Parameters

Specification	Figure
Camera dimension (mm)	ø70×260
Imager element	1/2.8"sony 1-CCD-Chip
Pixel	3270000
Signal / noise ratio (dB)	>48
Min illumination (lux)	1
Automatic electronic shutter (s)	1/50 - 1/10000

Camera Parameters

Specification	Figure
AWB	ON/OFF
Auto focusing	Auto/Manual
Auto backlight compensation	ON/OFF
Max magnification	20 (optics) *12 (digital) =240 times
Ambient temp.	0°C bis +50°C
Ambient moisture	<90%

Specification	Figure
Weight	ca. 3.5kg
Electricity	AC220V
Power	15W
Signal	SID

Model
vLED 160
vLED 140
vLED 140+140
vLED 160+140
vLED 160+160

vLED 140M Mobile Type

140000lx



vLED 140M

Max illumination: 140000lx
 Color Rendering Index (CRI(Ra): ≥ 95
 Red reduce index(R9): ≥ 90
 Illumination adjustment range: 40000 ~ 140000lx
 5 types color temp.(3800K/4200K/4650K/5100K/5500K)
 Adjusted light field: Diameter 16 ~ 35cm
 It is composed by 96 light bulbs to eliminate the shadow effect.
 Least heat discharge
 Evident touch control panel
 Detachable high-temperature resistance autoclave handle
 Refer to human body mechanism & humanization design

Specification	Figure
Light field diameter (cm)	16~35
Field uniformity (D10/D50)	0.52
Shadowless depth (mm)	600 \pm 5%
Radioactivity Ee/Ec (MW/m ² lux)	\leq 3.6
Radiation power (w/m ²)	<580
Life span (h)	>60000

vLED 160M Mobile Type

160000lx



vLED 160M

Max illumination: 160000lx
 Color Rendering Index (CRI(Ra): ≥ 95
 Red reduce index (R9): ≥ 90
 Illumination adjustment range: 40000 ~ 160000lx
 5 types color temp.(3800K/4200K/4650K/5100K/5500K)
 Light field: 18cm
 It is composed by 176 light bulbs to eliminate the shadow effect.
 Least heat discharge
 Evident touch control panel
 Detachable high-temperature resistance autoclave handle
 Refer to human body mechanism & humanization design

Specification	Figure
Light field diameter (cm)	18
Field uniformity (D10/D50)	0.5
Shadowless depth (mm)	600 \pm 5%
Radioactivity Ee/Ec (MW/m ² lux)	\leq 3.6
Radiation power (w/m ²)	<580
Life span (h)	>60000

vLED 140W Wall Type

140000lx



R9 Enhance the light source



Control Panel

Handle

Detachable Sterile Autoclave Handle

vLED 140W

Max illumination: 140000lx
 Color Rendering Index (CRI(Ra): ≥ 95
 Red reduce index(R9): ≥ 90
 Illumination adjustment range: 40000 ~ 140000lx
 5 types color temp.(3800K/4200K/4650K/5100K/5500K)
 Adjusted light field: Diameter 16 ~ 35cm
 It is composed by 96 light bulbs to eliminate the shadow effect.
 Least heat discharge
 Evident touch control panel
 Detachable high-temperature resistance autoclave handle
 Refer to human body mechanism & humanization design

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Radiation power (w/m ²)	<580
Life span (h)	>60000

vLED 160W Wall Type

160000lx



Handle



Control Panel



Handle



Detachable Sterile Autoclave Handle

vLED 160W

Max illumination: 160000lx
 Color Rendering Index (CRI(Ra): ≥ 95
 Red reduce index (R9): ≥ 90
 Illumination adjustment range: 40000 ~ 160000lx
 5 types color temp.(3800K/4200K/4650K/5100K/5500K)
 Light field: 18cm
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Radioactivity Ee/Ec (MW/m ² lux)	\leq 3.6
Radiation power (w/m ²)	<580
Life span (h)	>60000

Technical Specifications

Item No.	Specification	140 Light Head	160 Light Head	Remark
1	Light head			
2	Diameter of light head (mm)	500	700	
3	Max Illumination (lx)	140000 / 96 LEDS	160000 / 198 LEDS	
4	Color - Rendering Index CRI (Ra)	≥98		
5	Red reductive index (R9)	≥95		
6	Illuminance adjustment range (lx)	40000~140000	40000~160000	20 steps adjustable
7	Color temperature	3800~5500	3800~5500	5 steps adjustable
8	Light field diameter (cm)	16~35	18	
9	Field uniformity (D10/D50)	0.52	0.5	
10	Shadowless depth (mm)	600±5%	600±5%	
11	Deep cavity shadowless rate	100% no limit -5%	100% no limit -5%	
12	Single board shadowless rate	30% no limit -5%	50% no limit -5%	
13	Single board deep cavity shadowless rate	30% no limit -5%	50% no limit -5%	
14	Double boards shadowless rate	50% no limit -5%	50% no limit -5%	
15	Double boards deep cavity shadowless rate	50% no limit -5%	50% no limit -5%	
16	Radioactivity Ee/Ec (MW/m ² lux)	≤3.6	≤3.6	
17	Radiation power (w/m ²)	<580	<580	
18	Life span (h)	>60000		
19	Battery backup	8hrs	7hrs	Optional

