



# AmsonVision

## Surgical LED Lights



Channel  
Illumination System

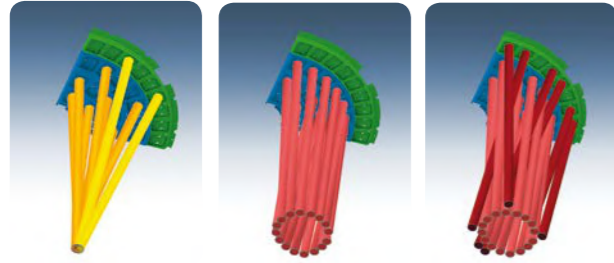
Hybrid Reflectors

Smart Sensor  
Technology

*#visionredefined*

# Excellent Optical Performance

## Stable Illumination



Due to Channel Illumination system (CIS) AmsonVision Lights deliver consistent intensities even with increase of pattern size from 20cm to 30 cm.

## CIS

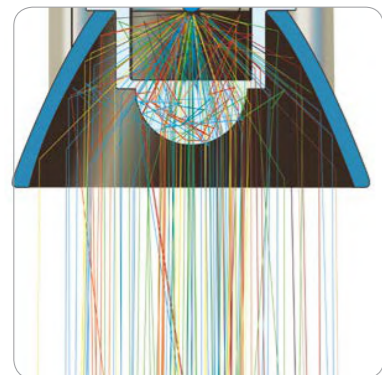
The Channel Illumination system (CIS) offers consistent illumination even with enlarged pattern size only 5% difference in intensity is observed. Due to the stable and well illuminated surgical wound, the surgeon's vision is improved and reduces chances of mistakes while operating in the OR.

## Effective Illumination

By adopting Hybrid LED Reflectors, the efficiency of the light is maximized and reduces heat emission.

### Hybrid LED System -

The use of Hybrid LED integrated Reflectors increase the efficiency by 30%, in comparison to traditional reflector. This increases the light illumination and it also helps in reducing the overall weight of the light.



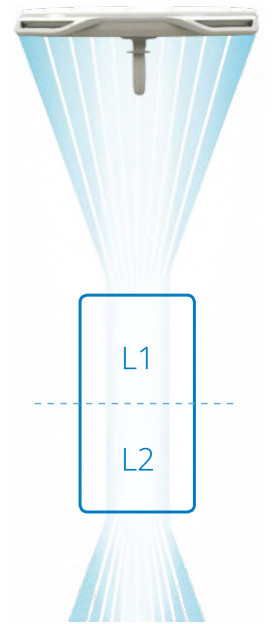
### Cool Light -

The New innovative LED Light technology and sensors adapted by AmsonVision V160 Surgical Light, prevents heat on the Surgeon's head. This also reduces the heat produced on the surgical surface thus reducing the drying of tissue.

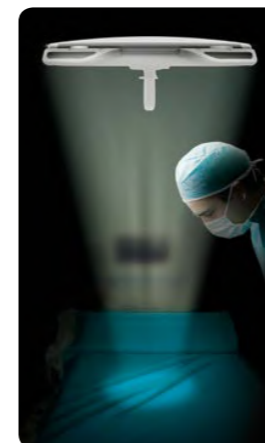
Following standards of lighting, 1000W/m<sup>2</sup> is the set limit of heat irradiation for surgical light. However the AmsonVision LED surgical lights irradiate much less than the set standards of lighting.

## Depth of Illumination

The depth of illumination is related to general concept of working distance. The basic function of any surgical light is to help the surgeon to visualize in the deep surgical cavity. The high amount of red color nuisances due to blood vessels and organs in the surgical area most of the light intensity gets absorbed. Hence it is necessary that the surgical light should perform in the greater depth of illumination i.e. (L1+L2). AmsonVision Lights offer depth of illumination of 120cm to 150cm, along with improved shadow control and eliminates the need for refocusing of the light.



## Dilution Effect



- ▶ V160 : 55-100%
- ▶ V120 : 50-100%

- Most of the surgical lights are tested for shadow dilution. This ensures proper dilution performance of the surgical light. This is highly critical for clear vision in the surgical area. AmsonVision lights offer excellent dilution effects.

Model No.		V160	V120
Dilution Effect	With Tube(%)	100	100
	1 mask(%)	55	50
	2 mask(%)	50	48

# AmsonVision V160/V120

Ceiling Model

160,000 lx + 120,000 lx



## Synchronized Intuitive Control Panel

touch sensor control



**Illumination Intensity**  
V160 : 160,000 lx (Max.)  
V120 : 120,000 lx (Max.)



**Focus Size**  
6 steps adjustment  
(Max. 30 cm / Min. 20 cm)



**Color Temperature**  
V160, V120 : 4,300 K



**ENDO-MODE**  
Suitable for endo-  
surgery by  
one click, EC\*5 %

360° Rotating Arm

## Smart Sensor

Detect the obstacle & Increase the intensity automatically



## Hybrid LED System

Lower heat emission & Less consumption of energy



V120

V160

## Center Grip

Quick controller & Autoclave handle

## Other Configuration



Model

V160



Model

V120





Model

V160/V160

# Technical Specification



Model	AmsonVision V160	AmsonVision V120
Design (Light Head)		
Configuration	Single / Dual Ceiling / Mobile	Single / Dual Ceiling / Mobile
Head Size (cm)	60	50
No. of LED (each)	84	54
Intensity (lux)	Max 160,000 at 1 M	Max 120,000 at 1 M
Intensity Control	6 steps (40,000 lx ~160,000 lx)	6 steps (40,000 lx ~120,000 lx)
CRI (Ra)	95	95
Color Temperature (K)	4,300	4,300
Light Field Size (cm)	20~30 at 1 M	20~30 at 1 M
Depth of illumination (cm)	150(at 20 %) 90(at 60 %)	125(at 20 %) 65(at 60 %)
Smart sensor (each)	4 Nos.	No
Detachable Centre grip	Yes (2Nos.)	Yes (2Nos.)
LED Life Span (hours)	50,000	50,000
Internal Camera (option)	Yes	No
Wall controller (option)	Yes	Yes
Battery backup (option)	Yes	Yes
Certificate	CE/FDA/UL	CE/FDA/UL
Power Consumption(W)	99	46

\* Optical values are measured with a tolerance of ±10%

# AmsonVision E200

Ceiling Model

100,000 lx + 100,000 lx

Intensity Control  
in 5 Steps



**Illumination Intensity**  
100,000 lx (Max.)



**Color Temperature**  
3,800 K / 4,300 K / 4,800 K



**Adjustable Focus**

Select focal size easily  
18cm or 30cm



**Detachable Handgrip**

Easy and stable handling  
autoclave material



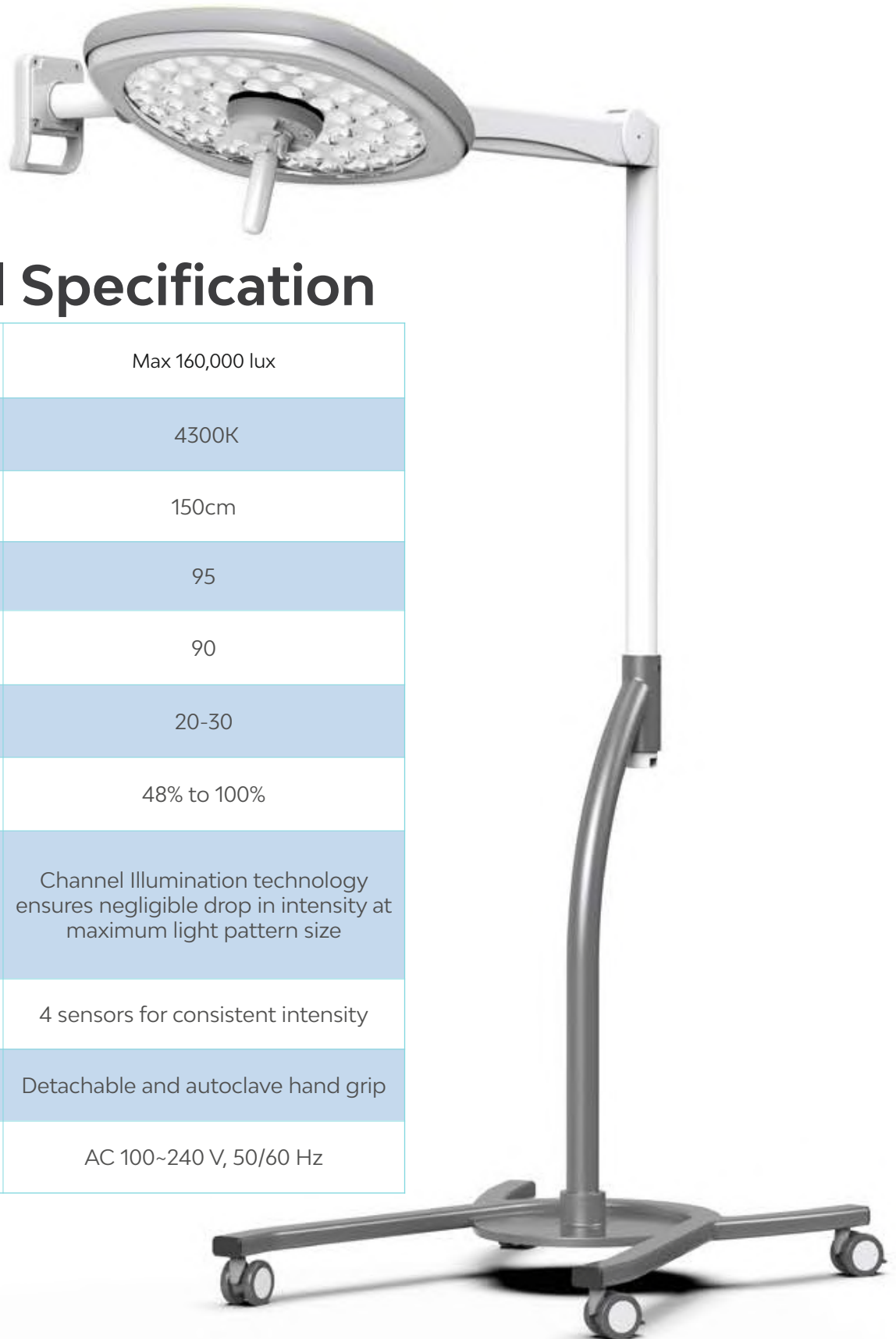
# Technical Specification



Model	AmsonVision E200	AmsonVision E100
Design (Light Head)		
Head Size (cm)	35 X 34	25 X 24.6
Intensity (lux)	Max. 100,000 @ 1 M	Max. 60,000 @ 0.5 M
CRI (Ra)	90	95
Color Temperature (K)	3,800 / 4,300 / 4,800	3,500 / 4,000 / 4,500
Depth of illumination (cm)	EC 60 % > 90 cm EC 20 % > 125 cm	-
LED Life Span (hours)	50,000	50,000
Power Consumption (W)	29	17
Light Field Size (cm)	18 (Circle) / 30 (Circle)	17 (Circle)
Focal Distance (m)	1	0.5
Input Power	AC 100~240 V, 50/60 Hz	AC 100~240 V, 50/60 Hz

# AmsonVision V160

Mobile Model



## Technical Specification

Intensity (lux)	Max 160,000 lux
Color Temperature (K)	4300K
Depth of illumination (cm)	150cm
Color Rendering Index (Ra)	95
Red color rendering index (R9)	90
Variable pattern size (cm)	20-30
Dilution effects with 84 LEDs	48% to 100%
Illumination Technology	Channel Illumination technology ensures negligible drop in intensity at maximum light pattern size
Smart sensors inbuilt	4 sensors for consistent intensity
Hand grip	Detachable and autoclave hand grip
Input Power	AC 100~240 V, 50/60 Hz

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