



Brandon Medical®

Member of REINSBERG GROUP

# Astramax HD-LED®

Surgical Light



Bringing innovation to life



## Astramax HD-LED® High Performance Compact Surgical Light

Lights to suit all of your clinical needs  
Brandon Medical provides a comprehensive range of LED medical lights to suit all of your clinical needs. Brandon Medical's LED medical lights use the latest innovations in LED lighting technology to provide you with better performance and lower lifetime costs. The choice of medical lights we offer vary in light intensity, light colour, mounting structures and price so you can choose a light that meets all of your clinical needs.

### High-Definition Surgical Lighting

"HD-LED® is a breakthrough technology with vastly better performance than standard definition LED or conventional surgical lights."



### Full Spectrum Colour Rendition

The only surgical lighting with near perfect colour rendition across the full visible spectrum. Natural white light picks out all the visible colours for your eyes so you can see clearly without eye strain.

- Easy to distinguish small differences in tissue.
- All the colours are strong and vibrant.
- Reduced eye strain by making the light do the work instead of the eye.



### Red Balance Control

With the highest R9 red colour rendition of any other product, Astramax HD-LED® provides optimum visualisation of red tissues. Red balance enhancement compensates for our natural weakness in distinguishing shades of red and is user adjustable to fine-tune the light to match our own red vision and the surgical conditions.

- Enhanced visualisation of red tissues.
- Improved differentiation between tissues of similar colour.
- You can adjust the light colour to match your own optical colour response.



### Fat Beam Illumination

Higher light flux ensures the biggest beams of light in the business, bigger illuminated fields and more light across the full width of the illuminated area.

- High light intensity across the full illuminated area for uniform vision.
- Avoids visual distraction by reducing high contrast in the illuminated area.
- Adjust the beam size to suit your working area to eliminate peripheral distraction.





## Astramax HD-LED®

### High Performance Compact Surgical Light



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#### Slim, Compact and Powerful

Ultra slim and light-weight lamp head enables smooth, fast and precise positioning during procedures. Astramax HD-LED® is a compact yet powerful surgical light with an impressive 150,000 Lux output comparable with much larger surgical lights.

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#### Long Life

Astramax HD-LED® life of >60,000 hours equates to more than 20 years of normal use.

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#### Large Illuminated Area

A large illuminated area of 320mm diameter makes it easy to illuminate large areas of tissue to target the light onto the wound.

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#### Environmentally Friendly

HD-LED lights use up to 70% less energy than conventional medical lighting. HD-LED lights have the highest lighting performance with the smallest energy consumption.



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#### Economical

Astramax HD-LED® provides exceptional performance at a competitive price with minimal running costs. Using less than 50 watts of power and with >60,000 hours of LED life, Astramax HD-LED® continually saves money on energy and maintenance.

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#### Infection Control

The lamp head is sealed to IP54 to protect from ingress of dirt and fluids. The smooth surfaces of the lamp head allow for easy disinfection. The lamp head is manoeuvred using a sterilisable handle. Disposable handles are also available as an option.

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#### Shadow Control

By spreading the LEDs across the lighting surface, a much better distribution of light is provided from the lamp head. This enables excellent shadow control to under-light obstructions during procedures.

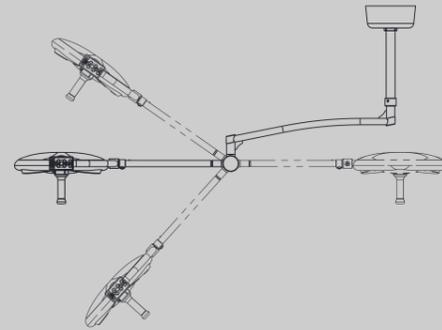
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#### Large Movement Range

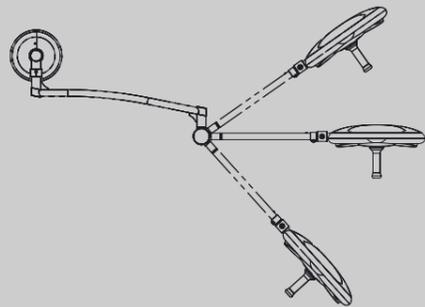
Astramax HD-LED® lamp head is mounted on arms with multi-movement mechanism and capable of positioning the lamp head within an exceptionally wide envelope of movement. The lamp has 5 rotations to allow easy positioning of the light beam from any angle.

# Astramax HD-LED® Technical Information

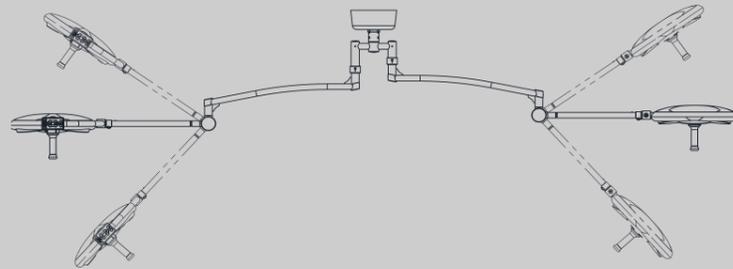
Single Ceiling (AM30CJ)



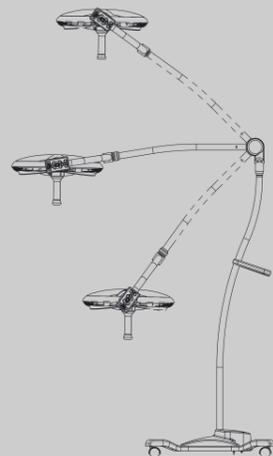
Single Wall Mount (AM30WJ)



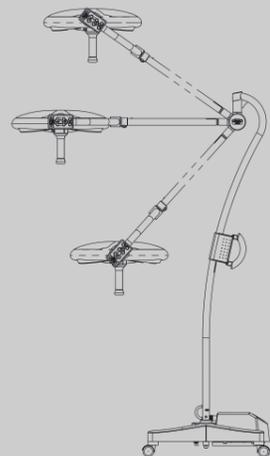
Tandem Ceiling Mount (AM3030TJ, AM3010TJ)



Single Mobile (AM30MO)



Single Mobile with Battery Back Up (AM30MEL)



## Red Balance Control



Enhanced Red II	Enhanced Red I	Optimum Red	Reduced Red I	Reduced Red II
3,100°K	3,300°K	3,700°K	4,200°K	5,000°K

The % of visible red light can be increased or decreased to optimise the visualisation of red tissues. Colour temperature is variable from 3,100°K – 5,000°K.

CRI	Full Spectrum Colour Rendition								Red
R <sub>a</sub>	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>	R <sub>7</sub>	R <sub>8</sub>	R <sub>9</sub>
95	99	97	93	93	98	96	94	92	95

**Colour Rendering Index R<sub>a</sub>**  
Colour Rendering Index (R<sub>a</sub>) is a measure of how well a light source reproduces colours.

**Near Perfect Colour Rendition Across the Visible Spectrum R1-R8**  
HD-LED has near perfect colour rendition for all 8 colour measurements used to calculate general Colour Rendering Index (R<sub>a</sub>). The "strong red" colour so important for visualisation of red tissues is not included in the R<sub>a</sub> measurement.

**Enhanced Red Balance R<sub>9</sub>**  
R<sub>9</sub> indicates visible red colour reproduction which is a critical parameter for surgical lights.

Technical Data	Light Intensity (at 1m)	150,000 Lux
Adjustable Colour Range (Red Balance)	3,100°K - 5,000°K	
Colour Rendition Index Ra	>95	
Colour Rendition Index Red Colour R9	>95	
Field Size D10 at 1 metre	150 to 320mm (variable)	
LED Life	>60,000 Hours	
Supply Voltage	100 – 240 Vac 50/60 Hz	
Power Consumption at Full Power	<50W	
Radiant Energy	3.31 W/m <sup>2</sup> /Klux	

**Exceeding Standards**  
Brandon Medical is certified as BS EN ISO 13485:2016 and ISO 9001:2015 manufacturer, the quality standard for medical device manufacturers. Brandon Medical Quasar® eLite lights conform to IEC 60601-1, IEC 60601-1-2 and IEC 60601-2-41.



Description	Model	Description
	AM30CJ	Astramax Ceiling Mounted Surgical Lamp
	AM30WJ	Astramax Wall Mounted Surgical Lamp
	AM30MO	Astramax Mobile Mounted Surgical Lamp
	AM30MEL	Astramax Mobile Mounted Surgical Lamp with Emergency Power Supply Unit
	AM3030TJ	Astramax Tandem Ceiling Mounted Surgical Lamp
	AM3010TJ	Astramax Astralite Ceiling Mounted Surgical Lamp with Emergency Power Supply Unit





United Kingdom



EMEA



Asia Pacific



Latin & South America



South Asia



USA & Canada



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