Astramax HD-LED®

Surgical Light





Astramax HD-LED® Surgical Light

"Brandon Medical is a UK manufacturer and designer of world-leading technology for operating theatres, critical care areas and primary care institutions. For over 70 years, Brandon Medical has provided healthcare professionals with reliable, high-quality and affordable medical equipment. Continuous investment in our products allows us to meet the everchanging needs of our customers, the healthcare industry and the patients it serves."



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 examination needs.







High-Definition Surgical Lighting

Di

"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 clearly see 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

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

Red Balance Control

With the highest R_g 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

Astramax HD-LED[®] High Performance Compact Surgical Light

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.

Long Life

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

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.

LEDs are also mercury free, do not contain CFCs, POPs, VOCs, halogens or other harmful chemicals and are ROHS compliant.

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.











Shadow Control

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

Large Movement Range

Astramax HD-LED[®] lamp head is mounted on multimovement arm mechanisms 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.

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.

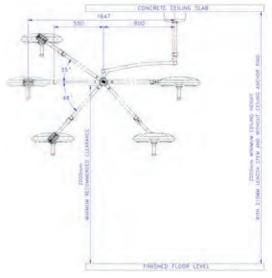
Infection Control

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.

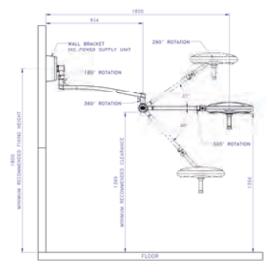
Astramax HD-LED® Technical Information



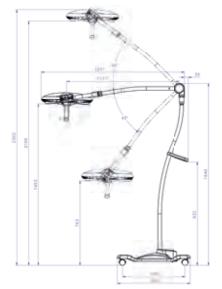
Single Ceiling (AM30CJ)



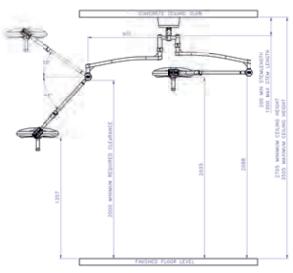
Single Wall Mount (AM30WJ)



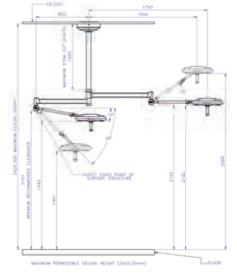
Single Mobile (AM30M0)



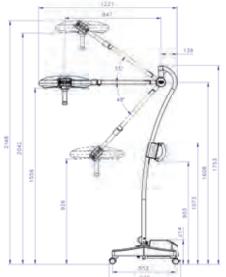
Tandem Ceiling Mount (AM3030TJ, AM3010TJ)



Duo Ceiling Mount (AM3030D)

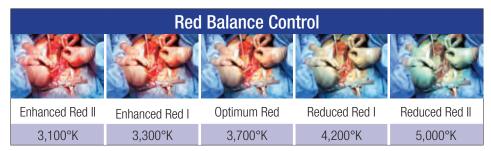


Single Mobile with Battery Back Up (AM30MEL)



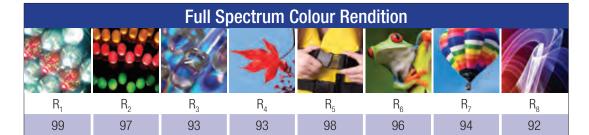






The % of visible red light can be increased or decreased to optimise the visualisation of red tissues. Colour temperature is variable from $3,100^{\circ}K - 5,000^{\circ}K$.







Enhanced Red Balance R₉

 R_9 indicates visible red colour reproduction which is a critical parameter for surgical lights.

Colour Rendering Index (R_a) is a measure of how well a light source reproduces colours.

Colour Rendering

Index R₂

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_a). The "strong red" colour so important for visualisation of red tissues is not included in the R_a measurement.

Near Perfect Colour Rendition

Tecl	hnical	Data

150,000 Lux
3,100°K – 5,000°K
≥95
≥95
150 to 320mm (variable)
>60,000 Hours
100 – 240 Vac 50/60 Hz
<50W
3.31 W/m ² /Klux

Part Number	Description	
AM30CJ	Astramax Ceiling Mounted Surgical Lamp	
AM30WJ	Astramax Wall Mounted Surgical Lamp	
AM30M0	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 Tandem Ceiling Mounted Surgical Lamp	
AM3030D	Astramax Duo Ceiling Mounted Surgical Lamp	

Exceeding Standards

Brandon Medical is certified as an ISO 13485 and ISO 9000 manufacturer, the global standard for medical device manufacturers. Brandon Medical Astramax HD-LED[®] lights conform to IEC 60601-1, IEC 606011-2 and IEC 60601-2-41









4

*Specifications may vary by +/-10%







Astramax HD-LED® can be associated with Brandon Medical's wide range of products.

Operating Theatre Lights and Battery Back Up Minor Surgical Lights Examination Lights Theatre Control Panels PACS Workstations IPS Isolated Power Systems UPS Uninterruptible Power Systems Medical Gas Pendants and Accessories Ultra Clean Ventilation Canopies Operating Table and Accessories Digital Audio Video Solutions

Brandon Medical Co Ltd, Elmfield Road, Morley, Leeds, LS27 0EL T: +44 (0)845 1243 666 F: +44 (0)845 1243 667 T: +44 (0)113 2777 393 F: +44 (0)113 2728 844 E: enquiries@brandon-medical.com www.brandon-medical.com

March 2018 14134-A3

In line with the Brandon policy of progressive improvement, the right is reserved to alter specifications and/or pieces without notice. Brandon Medical, Astramax and HD-LED are registered trademarks of Brandon Medical Co Ltd.