Astramax®
Surgical Lighting - Mobile Base Mounted

Brandon MEDICAL
BRILLIANT BY DESIGN

Product Description

Astramax®

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

Product Images

AM30MEL

AM30MO

Product Features

Full Spectrum Colour Rendition

The surgical lighting has near perfect colour rendition across the full visible spectrum.

- 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, Astramax HD-LED provides optimum visualisation of red tissues

- 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 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

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

Economical Light with Long Life

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 which equates to more than 20 years of normal use, Astramax HD-LED continually saves money on energy and maintenance.

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 with Shadow Control

A large illuminated area of up to 320mm diameter makes it easy to illuminate large areas of tissue to target the light onto the wound. 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. The lamp has 5 rotations to allow easy positioning of the light beam from any angle.

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.

Images are representative of example system only - Mount styles vary depending on model
Please refer to drawing layout for model appearance information

Please contact one of our Sales Team to discuss your requirements further

Award Winner 2019
INTERNATIONAL TRADE
INNOVATION
DESIGNED AND MADE IN THE UK

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Model Number	Description
AM30MEL	ASTRA MAX 30 Series Main Lamp (150kLux) Mobile with Emergency Backup
AM30MO	ASTRA MAX 30 Series Lamp (150kLux) Mobile

Technical & Performance Information:

Unless otherwise stated: All linear dimensions in mm, angles in degrees (±5º) and weights in kg

General System Information	AM30MEL	AM30MO
Mount Type	Mobile EL [550 Spring Arm]	Mobile [720 Spring Arm]
Lamphead 1	AM30	AM30
Weight (kg)	32	18
Conformity	CE (93/42/EEC) including amendments 2007/47/EC	
Type of luminaire	Luminaire for diagnosis	
Medical Device Classification	I	
Electrical Classification	I	
Electrical conformity	BS EN 60601-1; BS EN 60601-2-41	
System Nominal Power [VA]	44VA	44VA
System Power Consumption @100% Intensity	37W	37W
Additional Information	Power Lead supplied loose with UK plug (C13 to Type G) Includes Integral back-up power supply	Power Lead supplied loose with UK plug (C13 to Type G)

Mount	Mobile EL [550 Spring Arm]	Mobile [720 Spring Arm]
Column Height (mm)	1608	1600
Column Height Adjustment (mm)	N/A	N/A
Base Width & length (mm)	564 x 630	620 x 660
Weight of Mount (including column/suspension arm)	27	13
Total Arm radius – Reach (mm)	550	720
Arm Rotation Lateral about Central Column Spindle (±5°)	±30°	±27.5°
Arm Angle max vertical adjustment up (±5°)	35°	45°
Arm Angle max vertical adjustment down (±5°)	48°	45°
Colour of suspension arms	White RAL 1910	White RAL 1910
Power Supply Unit Type	50W 24V DC	50W 24V DC
Supply Voltage	100-240VAC 50/60Hz (Fused via T 5AH 250V 5x20mm)	

Lamphead Photometric Data *		AM30
Central Illuminance @ 1 metre (Lux max ±10%)		150000
Field diameter D10 @ 1 meter (mm)		90 to 320 (Variable)
Field diameter D50 @ 1 meter (mm)		90-160
Field size mm		-
Nominal working distance from lamphead m		1
Colour rendition Ra (Av R1-R8)		≥95
Colour rendition R9 (red)		≥95
Colour temperature (ºK)		4300º K
Adjustable Colour (Red Balance) (ºK)		3100º to 5000º K
Number & Type of lights per Lamphead		39 HD-LED®
LED life (hours)		>60,000
Comfort Halo @ 1m (mm)		N/A
Solid state focusing control		Control via Handle
Intensity control		Control on Keypad
Radiant Energy		3.31mW/m² per lux
Shadow-less light technique		Multiple LED elements
Electronically Dimmable Light Intensity Range		5-100%
Depth of Illumination (without refocusing)	L1/L2@60% (mm)	-
	L1/L2@20% (mm)	500

Lamphead General, Mechanical & Electrical Data*	AM30
Removable Sterilisable Handle	Yes (Sterilisable at 137°C)
Anti-microbial Surfaces	Yes
Light On/Off switch location	Keypad on lamp head
Ingress Protection Rating	IP54
Lamphead Diameter (mm) Approx	480
Lamphead Weight (kg) Approx	5
Lamphead Pitch (°)	290°
Lamphead Roll (°)	Unlimited 360°
Lamphead Yaw (°)	N/A
Power Supply Unit Requirements	50W 24V DC
Power (VA)	44VA
Power Consumption @Nominal Intensity [@100% Intensity]	22.15W [37W]

*Data per Lamphead

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