

Product Description

Astralite®

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



Product Images



Product Features

Large Movement Range

Astralite® is designed so that the light head can be positioned all the way around the couch to examine all parts of the patient. The 4 rotations allow easy positioning of the light beam from any angle

Long Life

LED life is greater than 50,000 hours which equates to more than 20 years of normal use.

Environmentally Friendly

Astralite® uses LEDs that are mercury free and do not contain CFCs, POPs, VOCs, halogens or other harmful chemicals.

Economical

Never having to change a bulb for the lifetime of the product means that Astralite® is highly economical. LED is substantially more efficient at producing more surgical quality light for less power.

Designed to Minimise Infections

Anti-microbial additives are used to destroy harmful bacteria. The smooth, continuous surfaces are easy to wipe clean, with split lines kept to a bare minimum. The Astralite® light head is sealed against the ingress of dirt and liquids to prevent contamination.

Silver Ion Antimicrobial Technology

Biomaster antimicrobial additive is moulded into the plastic lamp head parts and 'Ultra Fresh' is incorporated in the lamp head paint. Both of these additives have anti-microbial properties.

High Intensity Cold Light

Choose between the AL10 with 70,000 Lux at 1m or the even more powerful ALE10 with 100,000 Lux at 1m.

Adjustable Colour Contrast

The colour of the light can be adjusted depending on skin, tissue or wound to select the optimum lighting.

Large Illuminated Field

All models produce a large 250mm max. diameter light field with a 70-140cm working distance.

Sterilisable Handle Option

The standard handle is very easy to clean and accepts most disposable covers. A re-sterilisable handle is an optional item.

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



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Model Number	Description
ALE10MEL	ASTRA LITE PLUS 10 Series Lamp (100kLux) Mobile with Emergency Backup
ALE10MO	ASTRA LITE PLUS 10 Series Lamp (100kLux) Mobile
AL10MO	ASTRA LITE 10 Series Lamp (70kLux) Mobile

Technical & Performance Information:

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

General System Information	ALE10MEL	ALE10MO	AL10MO
Mount Type	Mobile EL [720 Spring Arm]	Mobile [720 Spring Arm]	
Lamphead 1	ALE10	ALE10	AL10
Weight (kg)	30	16	16
Conformity	CE (93/42/EEC) including amendments 2007/47/EC		
Type of luminaire	Luminaire for diagnosis		
Medical Device Classification	I	I	I
Electrical Classification	I	I	I
Electrical conformity	BS EN 60601-1; BS EN 60601-2-41		
System Nominal Power [VA]	33.5VA	33.5VA	<32VA
Power Consumption @ 100% Intensity	26W	26W	17.5W
Additional Information	Power Lead supplied loose with UK plug (C13 to Type G)		

Mount	Mobile EL [720 Spring Arm]	Mobile [720 Spring Arm]
Column Height (mm)	1608	1600
Base Width & length (mm)	564 x 630	620 x 660
Weight of Mount (including column/suspension arm)	27	13
Total Arm radius – Reach (mm)	720	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°
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*	AL10	ALE10
Central Illuminance @ 1 metre (Lux max ±10%)	70,000 (8 Steps)	100,000 (8 Steps)
Field diameter D10 @ 1 meter (mm)	180	180
Field diameter D50 @ 1 meter (mm)	80	80
Field size mm	250	250
Nominal working distance from lamphead m	1	1
Colour rendition Ra (Av R1-R8)	≥95	≥95
Colour rendition R9 (red)	≥95	≥95
Colour temperature (°K)	See Adjustable Colour	
Adjustable Colour (Red Balance) (°K)	3500° to 5000° K (6 Steps)	
Number & Type of lights per Lamphead	13 HD-LED®	13 HD-LED®
LED life (hours)	>50,000	>50,000
Comfort Halo @ 1m (mm)	N/A	N/A
Solid state focusing control	Control via Handle	
Intensity control	Control on Keypad	
Radiant Energy	3.31mW/m ² per lux	
Shadow-less light technique	Multiple LED elements	
Electronically Dimmable Light Intensity Range	5-100%	5-100%

Lamphead General, Mechanical & Electrical*	AL10	ALE10
Removable Sterilisable Handle	Yes (Sterilisable at 137°C)	
Anti-microbial Surfaces	Yes	Yes
Light On/Off switch location	Keypad on lamp head	
Ingress Protection Rating	IP54	IP54
Lamphead Diameter (mm) Approx	296	296
Lamphead Weight (kg) Approx	3	3
Lamphead Pitch (°)	330°	330°
Lamphead Roll (°)	Unlimited 360°	
Lamphead Yaw (°)	N/A	N/A
Power Supply Unit Requirements	50W 24V DC	50W 24V DC
Power (VA)	<32VA	33.5VA
Power Consumption @Nominal Intensity [@100% Intensity]	8.5W [17.5W]	13.2W [26W]

*data per lamphead

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