

Product Description

Astralite®

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



Product Images

Astra coucl light

Product Features

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

Large Movement Range

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 antimicrobial 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 resterilisable handle is an optional item.







Minor Surgical & Examination Lighting - Mobile Base Mounted



Model Number	Description	
ALE10MEL	Astralite PLUS 10 Series Lamp (100kLux) Mobile with Emergency Backup	
ALE10MO	Astralite PLUS 10 Series Lamp (100kLux) Mobile	
AL10MO	Astralite 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 (EU MDR 2017/745)			
Type of Luminaire (to BS EN 60601-2-41)	Luminaire for diagnosis			
Medical Device Classification	ı	I	ı	
Electrical Classification	I	Ţ	I	
Electrical Conformity	BS EN 60601-1; BS EN 60601-2-41			
System Max Power [VA]	33.5	33.5	25.4	
Power Consumption @ 100% Intensity	26W	26W	17.5W	
	Power Lead Supplied Loose with UK Plug (C13 to Type G)			
Additional Information	Includes Integral Back-Up Power Supply Battery Life: 3 hours minimum	-	-	

Mount Specification	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 Included	1 off Medical Grade 150W 24V DC	1 off Medical Grade 150W 24V DC
Supply Voltage	100-240VAC 50/60Hz (Fused via T 5AH 250 5x20mm)	

	Lamphead Photo	ometric #	AL10	ALE10
Central Illuminance @ 1 metre (Lux max ±10%)		70,000	100,000	
		(8 Steps)	(8 Steps)	
Field Diameter Narrow beam		149	149	
D ₁₀ @ 1 meter (mm) [Wide beam]		[Wide beam]	[270]	[270]
Field Diam	eter	Narrow beam	77	77
D ₅₀ @ 1 meter (mm)		[Wide beam]	[89]	[89]
	bution d50/d10 (%)	[@Narrow Beam]	52	52
	d Area (cm²)		254	254
Nominal V	Vorking Distance fro	m Lamphead m	1	1
Colour Rer	ndition Ra (Av R1-R8	3)	≥95	≥95
Colour Rer	ndition R9 (red)		≥95	≥95
Colour Ter	mperature (K)		See Adjustable Colour	
Adjustable	Colour (Red Balanc	ce) (K)	3500 to 5000 K (6 Steps)	
		1 Mask (%)	n/a	
Shadow	Remaining	2 Mask (%)	68	
Dilution:	Illuminance with	Tube (%)	100	
Diracion.	mannance with	Tube + 1 Mask (%)	n/a	
		Tube + 2 Mask (%)	56	
Depth of Illumination L1+L2@60% (mm)		_ , ,	1200	
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	
Radiant Energy (Irradiance per lux)		r lux)	3.31 mW/m² per lux	
Solid State Focusing Control			via Handle	
Intensity Control			on Keypad	
Shadow-less Light Technique			Multiple LED Elements	
Electronically Dimmable Light Intensity Range			5-100%	5-100%
Endoscopy Setting			n/a	n/a
Infrared Content			0	0
UV Content			0	0
Temperature Increase in Surgeon's Head Area			<1°C	<1°C
Luminous Efficacy (lm/W)			-	-
Keypad Orientation			n/a	n/a

Lamphead General, Mechani	AL10	ALE10	
Removable Sterilisable Handle		Yes (Sterilisable up to 137°C)	
Anti-Microbial Surfaces	Yes		
Light On/Off Switch Location	Keypad on Lamphead		
Ingress Protection Rating	IP54		
Lamphead Diameter (mm) Approx		296	
Lamphead Weight (kg) Approx		3	
Lamphead Yaw (°)		360°	
Lamphead Roll (°)		n/a	
Lamphead Pitch (°)		330°	
Power (VA)	Nominal [Max]	17.2 [25.4] 21.7 [33.5]	
Power Consumption (W)	Nominal [Max]	8.5 [17.5]	13.2 [26]
Power Supply Unit Requirements (minimum)		Medical Grade 150W 24V DC	
Materials	Enclosure	Aluminium with Anti-bacterial	
		coating	
	Lens Cover	Polycarbonate	
	Reflectors	ABS with metalized coating	

#data per lamphead

See also Drawing: BSD_Astralite Mobile Systems Layout [1500