



## Astralite ALE10 Minor Surgical LED

Astralite® uses HD-LED® technology, a breakthrough innovation with vastly better performance than standard definition LED technology. The benefits of this technology include reduced eye strain, ensuring all colours are strong and vibrant and making the task easier to distinguish small differences in tissue.

### Key Highlights

- Anti-microbial active substance
- Sealed spring balanced arm design
- Red balance control with 8-step dimming
- 6-step CCT control 3100K - 5000K
- Shadowless lamp head design
- 360° unlimited rotation
- Ultimate flexibility with 5 rotation points
- 100,000 lux light output @ 1m
- Fat beam illumination
- Large 250mm illumination field
- Focussable beam by twisting handle






### CONTROL PANEL

The easy to use and ergonomic control panel allows all lighting requirements to be adjusted with the simple press of the button.

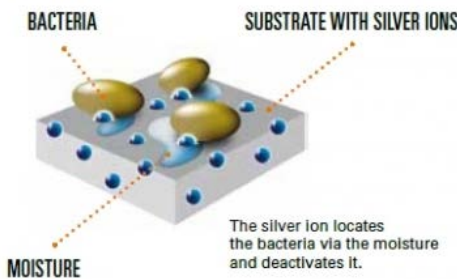
With 8-step dimming control and 6-step red balance control allowing the user to fine-tune the CCT from 3100K to 5000K, the Astralite® range provides optimum lighting for the clinician.

### ANTI-MICROBIAL ACTIVE SUBSTANCE

The Astralite range uses an anti-microbial active substance which is moulded into the lamp head, inhibiting the growth of micro organisms including MRSA. This is more than an external coating and allows the lamp head to be permanently resistant to contamination.

### THE SCIENCE BEHIND BIOMASTER ANTIBACTERIAL

The anti-microbial substance from Biomaster is integrated into the lamp head during manufacturing. The technology uses three ways to prevent bacteria from growing on surfaces and providing protection: **1.** Biomaster disrupts the bacteria cell from growing. **2.** The Biomaster ions stop the bacteria cell from producing energy. **3.** The cell's DNA is interrupted by Biomaster active silver technology which prevents any replication.




**BACTERIA**


**SUBSTRATE WITH SILVER IONS**

**MOISTURE**

The silver ion locates the bacteria via the moisture and deactivates it.



**To find out more visit**  
[www.biomasterprotected.com](http://www.biomasterprotected.com)



### MANUFACTURER ENDORSED WARRANTY

SAL Commercial offers a 5 year warranty on all medical lighting products. Confidence behind world class manufacturing processes and procedures ensures that only the highest quality product is supplied.



## Key Application Features

- **Minimise Infections** Anti-microbial additives are used to destroy harmful bacteria. The surfaces of the Astralite® range are designed to be smooth and continuous to ensure they are easy to wipe clean.
- **Fat Beam Illumination** Higher flux ensures the biggest illumination beams of light in the industry, with larger illumination fields and more light across the full width of the illuminated area.
- **Red Balance Control** Astralite® offers the highest colour rendition, R9 >95 in the market today which provides optimal visualisation of red tissues.
- **Full Colour Spectrum Rendition** Astralite® offers a Ra >95 which ensures an exceptionally high quality white light and ensuring all colours are strong and vibrant reducing the strain on the human eye.

## Model No. & Technical Specification

Astralite is entered in the ARTG, 234264

Model No.	Description	Body Colour	Power (W)	CRI	R9	Reach & Rotation
ALE10CJ	Astralite® ceiling mounted minor procedure luminaire, Biomaster anti-microbial integrated, selectable CCT from 3100K-5000K (6-steps), 8-step dimming	White	32	95	>95	1520mm 360° Unlimited
ALE10MO	Astralite® mobile minor procedure luminaire, Biomaster anti-microbial integrated, selectable CCT from 3100K-5000K (6-steps), 8-step dimming	White	32	95	>95	1520mm 360° Unlimited
ALE10WJ	Astralite® wall mounted minor procedure luminaire, Biomaster anti-microbial integrated, selectable CCT from 3100K-5000K (6-steps), 8-step dimming	White	32	95	>95	1520mm 360° Unlimited

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### Available Mounting Options

- Ceiling mount with unlimited 360° rotation at both the ceiling pole and lamp head rotation point
- Wall mount with or without backing plate
- Mobile base for flexible applications
- Desk & Rail mounting
- Long arm reach of 1520mm

### Cavity Spacer

- Cavity spacer available for ceiling mounting option
- Enables installer to set the height of the ceiling mount assembly based on site conditions
- Spacer tubes are cut on site to ensure lowest fixed point achieves 2m AFFL compliance
- Ensures mounting is structurally sound





## High Definition LED

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

## Large Movement Range

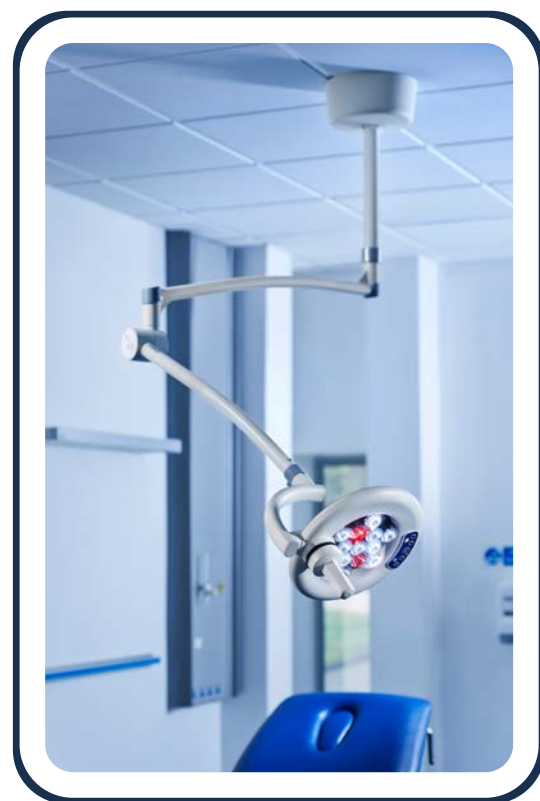
Astralite® is designed so that the light head can be positioned all the way around the couch to examine all parts of the patient. The 5 rotations allow for easy positioning of the light beam from any angle.

## Environmentally Friendly

Astralite® uses less than 32VA. LEDs 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 technology is substantially more efficient at producing a higher output surgical light source for less power than traditional technologies.



## 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 Anti-microbial Technology

Biomaster anti-microbial additive is moulded into the plastic light head components and 'Ultra Fresh' is incorporated in the light head paint finish. Both these additives have anti-microbial properties.

**Astralite ALE10CJ  
Ceiling Mounted Minor Surgical Lamp**

Ceiling Mount Mechanical Details	
Light sources mounted in a self-coloured polycarbonate pod assembly. Fixed to a ceiling mounted suspension system.	
Nominal working distance	1 metre from light head
Rotational about central spindle	Unlimited 360°
Rotation about end of horizontal	Unlimited 360°
Lamp head roll rotation	Unlimited 360°
Lamp head pitch rotation	330°
Height adjustment up from horizontal	35° ± 5°
Height adjustment down from horizontal	48° ± 5°
Weight of fitting	18 Kg
1 <sup>st</sup> Arm radius	800mm
2 <sup>nd</sup> Arm radius	720mm
Total arm radius (Reach)	1520mm
Colour of suspension arms	White RAL 9010
Ceiling height	2540-3330mm
Model number	ALE10CJ

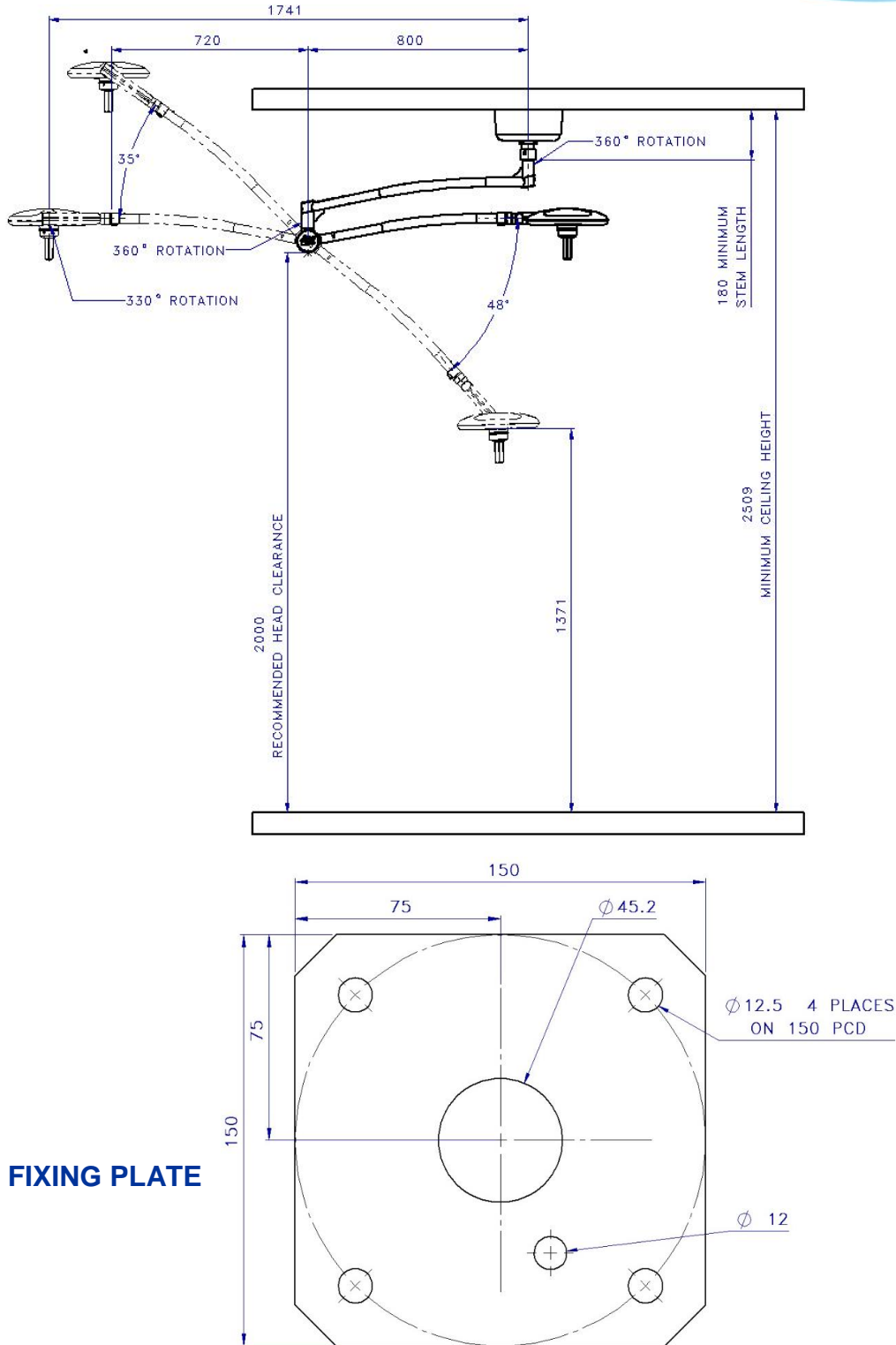
Lighting Details	
Number of light sources	13
Type of light source	High definition LED (HD-LED)
Colour rendition R <sub>a</sub> (Av R <sub>1</sub> -R <sub>8</sub> )	≥95
Colour rendition R <sub>9</sub> (red)	≥95
LED life	>50,000 hours
Adjustable colour (Red Balance)	3500° to 5000° K (6 Steps)
Light intensity @ 1 metre	100,000 Lux (Adjustable 8 steps)
Radiant energy	3.31 W/m <sup>2</sup> /Klux
Solid state focusing	Via Handle
Field size D <sub>10</sub> @ 1 meter	180mm
Field size	250mm
Shadow-less light technique	Multiple LED elements
On/Off switch	Control module on lamp head
Intensity control	Control module on lamp head

Electrical & Classification Details	
Supply Voltage	100-240VAC 50/60Hz Fused Via T 5AH 250V 5 x 20mm
Power	< 32 VA
Electrical Classification	I
Safety Approval	BS EN 60601-1, BS EN60601-2-41
EU Conformance CE	93/42/EEC Including amendments 2007/47/EC
Medical device classification	1
Type of luminaire according to BS EN60601-2-41	Luminaire for diagnosis

Revision	A1									
Changed by	N.D									
Date	27/01/17									

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