



## Maximum illumination for today's surgical suite

*Features excellent shadow reduction, easy-to-operate controls and full freedom of movement*

**Deep Cavity Illumination:** Depth of field negates the need to refocus midway through a procedure.

**Shadow Control:** The multi-faceted reflector generates 1,890 individual rays of light, which will tolerate a large percentage of the projected light being blocked before a shadow is evident.

**Long Lasting Bulbs:** Provide as much as 1,000 hours of uninterrupted light.

**Cool Light:** The use of a custom-designed IR filter provides maximum comfort during long procedures by reducing radiated heat to a minimum.

**Sterile Positioning Handle:** The handle can be removed for sterilizing or used in conjunction with a sterile cover.

**Full Articulation:** The sturdy free-moving support arms provide a full range of movement while remaining totally stable once positioned.

**Clean Lines:** Aesthetics reduce visual clutter and improve cleanability.

**Color-Corrected Light:** Lamp optimized at 4,300° K, which can ensure color clarity of the surgical light.

**Convenient Controls:** Controls for intensity provided on either of the sterile handle or from the wall-mounted panel (or both).

*The Maxx Luxx Select features compact, easy-to-position lightheades that provide superior shadow reduction. The system incorporates a state-of-the-art cooling system to deliver color-correct, ultra-cool light. It is available with one, two and three lightheades, as well as integrated monitors.*

# DRE Maxx Luxx Select

Surgical Light System

Equipment for the way *you* operate

## A single 180-watt bulb generates 135,000 lux

The Maxx Luxx Select has a reflector that is constructed from a single piece of highly-polished aluminum alloy. The single piece construction ensures that the quality of pattern is maintained over time, preventing any distortion. The surface of the reflector has 1,890 facets precisely honed into the surface to capture the maximum amount of light available and project it down into the field of view.

The facets deliver the intensity required. To achieve the shadow reduction, the 1,890 facets have been divided into clusters of approximately 30. The light reflected from each of the 30 facets illuminates an area of the light pattern. To achieve the desired level of performance, the light from only 7-8 facets is required. Since these facets are spread evenly throughout the lighthead, it stands to reason that the lighthead will tolerate 70-75% (20-22 facets) of the light output being blocked before a noticeable decrease in light intensity is witnessed.

To achieve the quality of pattern required that doesn't scatter unnecessary light outside the surgical field, the reflector combines two geometric shapes — namely elliptical and parabolic. The outer edge of the reflector uses the parabola to give a defined edge to the pattern while also providing a soft feathered edge to help reduce eyestrain. The ellipse provides for an adjustable focal point to allow maximum movement of the light during different procedures without compromising the workable depth of field.



### Specifications

#### Electrical Input

100V .....	50/60Hz
120V .....	50/60Hz
220V .....	50/60Hz
230 - 240V .....	50/60Hz

Power ..... 180 Watts

Intensity/Lighthead ..... 12,700 Footcandles  
(137,000 Lux)

Bulb Type ..... Tungsten Quartz Xenon/Halogen  
Number of Bulbs ..... 2 (Primary & Automatic Backup)

Color Temperature ..... 4,300°K

Depth of Field ..... 28" (70cm)  
without adjusting the pattern

Heat to Light Ratio ..... 3.8  $\mu\text{w}/\text{cm}^2\text{-fc}$

Cavity Penetration ..... >95% minimum

Pattern Size ..... 5.5" - 10.0" nominal (14cm - 25cm)

#### Weight

Single Lighthead:	155 lbs. 70 Kg
Dual Lighthead:	260 lbs. 118 Kg
Triple Lighthead:	365 lbs. 166 Kg

#### Vertical Load

Single Lighthead:	155 lbs. 70 Kg
Dual Lighthead:	260 lbs. 118 Kg
Triple Lighthead:	365 lbs. 166 Kg

#### Moment Load

Single Lighthead:	410 ft. lbs. 556 Nm
Dual Lighthead:	795 ft. lbs. 1078 Nm
Triple Lighthead:	1,160 ft. lbs. 1573 Nm

#### Controls (Wall Control)

Light ..... On/Off

Pattern Adjustment (at Sterile Handle Only) ..... Continuous Adjustment  
5.5" - 10.0" (14cm - 25cm)

Intensity ..... Increase/Decrease  
(5 Steps, Approx. 1,500 footcandles/step)

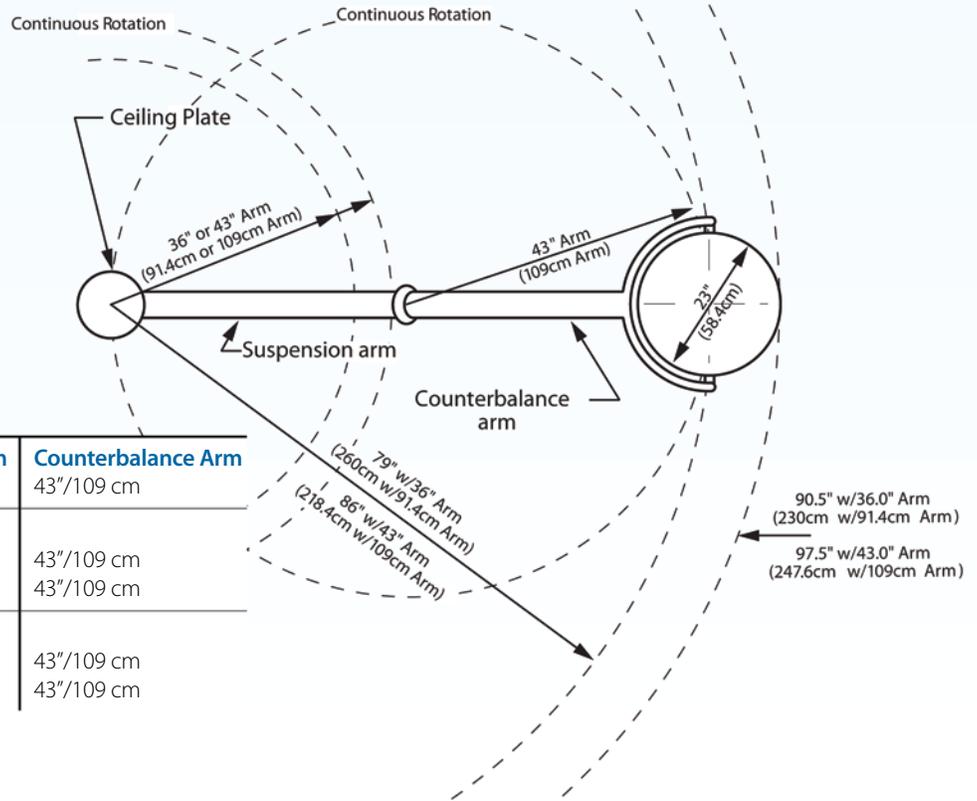
#### Indicators (at the Lighthead and Wall Control Unit)

Intensity ..... 5 Blue LEDs at each location

Relamp ..... Single Amber LED at each location

Input Power ..... Single Green LED at each location

### Range of articulation



### Arm Length

Configuration	Suspension Arm	Counterbalance Arm
- Single Lighthead	36\"/>	
<b>Dual Lighthead</b>		
- Upper arm	43\"/>	
- Lower arm	36\"/>	
<b>Triple Lighthead</b>		
- Upper arm	43\"/>	
- Lower arms (2)	36\"/>	

### Range of circular motion

