

Medical & Surgical Lighting Pty Ltd

SERIES 1 & 3 MEDICAL EXAMINATION LIGHTS





Medical & Surgical Lighting Pty Ltd (MSL) is an Australian company specialising in the design and manufacture of medical examination lights.

Unlike general task lights, the MSL product range is purpose designed to satisfy the special lighting demands of the health care industry. Working tasks range from general examinations to minor surgery.



Hospitals & Clinics



Doctors Surgeries



Veterinary Surgeries

MSL product and capability overview:

Ceiling Mount, Wall Mount and Mobile Trolley models, make up the versatile product range. All comply with the relevant Australian & New Zealand medical examination lighting standards.

Energy efficient LED light sources.

Electronic switching with four stage dimming.

Installation cost savings, each examination light is supplied as a number of pre-assembled components.

Easy to clean, from the outset of the product design this was a most important consideration. The use of round, flat and smooth surfaces, have been maximised. In addition, the all metal construction with powder-coated and anodised finishes provides durability and resistance to cleaning agents.

The counter-balanced arm movement provides several key design and build quality features. The light is effortless to position and remains drift-free after manoeuvring. Extended reach for full patient coverage, requiring minimal or no maintenance.

A reputable 5 year warranty supports MSL products.

If spare parts are required they are cost-effective and readily available.

MSL is accepted as a leading product brand in Australia and New Zealand, with numerous installations in hospitals, clinics, doctors' surgeries and animal clinics. If references are required, contacts of end-users can be provided.

For additional points, please refer to what we term as the 'check list' (see the MSL web site).

Installation instructions, mounting templates and technical data sheets on all MSL models are available for download.

Please visit www.mslighting.com.au

DESIGNED AND MANUFACTURED IN AUSTRALIA

Manufacturing in Australia continues to be a key factor in the MSL business plan. Our skilled team has total control over all design, production and delivery processes. Imported product brands do not provide MSL's level of support and service.

Components are manufactured from premium grade materials. Machined components are produced by hi-tech CNC lathe and machining centre technology, resulting in high tolerances and surface finishes.

Quality control inspections are carried out at key times with every production process to ensure customers' requirements and compliance with all current Standards and Regulations are achieved.

For special applications our flexible manufacturing capabilities can provide modifications to accommodate specific customer requirements.



Key MSL LED Technology Features and Benefits

Series 1 & 3 models utilise compact 15 Watt LED modules. They are specifically designed for medical examination lighting tasks. Each module comprises 7 LED's, driver and lens.

The precision engineered lens and reflector design delivers a controlled 8.4 degree light beam, maximising the light performance.

Optimum colour temperature.

High Colour Rendering Index and complies with the cyanosis observation index (COI).

There is almost no damaging infrared or UV radiation, resulting in greater patient/operator comfort.

Low energy consumption.

High shock resistance and long service life.









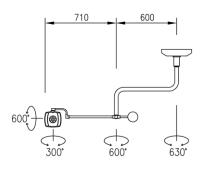
MSL SERIES 1 - CEILING, WALL & MOBILE TROLLEY

MSL Model Number

MSL-SL115C



Dimensions & Range of Movement



Features & Options

Custom made ceiling mounts to ensure lights are installed at the correct height as per the Australian standards.

Optional 360° continuous rotating electrical connector at the ceiling mount joint.

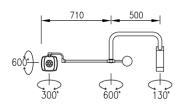
To specify add / 360°

Removable sterilisable handle (autoclavable).

Ease of installation, supplied as a number of pre-assembled components.

MSL-SL115W





Optional orange hospital grade flex and plug fitted to wall mount box. Length of cord required to be nominated at time of order.

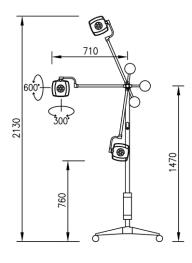
To specify add / FP

Removable sterilisable handle (autoclavable).

Ease of installation, supplied as a number of pre-assembled components.

MSL-SL115M





Standard wheels supplied are 50mm diameter. Optional heavy duty 75mm diameter wheels are available.

To specify add / HDW

Compact five leg base with two opposing brake wheels for increased stability.

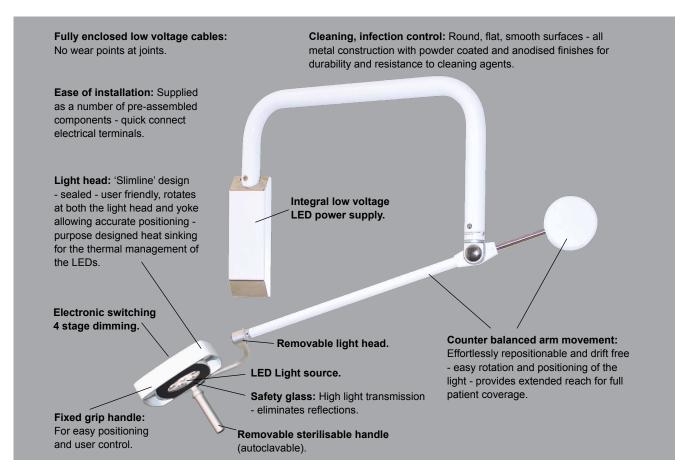
Three metre orange power cord with hospital grade plug. Cord support on pole when not in use.

Removable sterilisable handle (autoclavable).

Ease of installation, supplied as a number of pre-assembled components.

Designed and Manufactured in Australia

MSL - SERIES 1 KEY FEATURES & TECHNICAL DATA



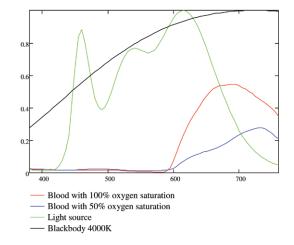
Colour Rendering Index:

The MSL 15W-LED medical module has been tested by an independent test institute. Results have confirmed its suitability for Australian hospitals and medical tasks that are required to comply with the Cyanosis Observation Index (COI) as per AS/NZS1680.2.5:1997. This is an important Standard that takes into account the strict guidelines that apply to the use of lamps in the diagnosis of patients in hospital wards, medical clinics and associated areas.

The LED module has a high "Special CRI R9" deep saturated red value (not included in normal CRI calculations). For medical examination tasks this R9 value is the key issue in diagnosis and accurate tissue identification.

MSL-SERIES 1

Wattage:	15W	
Illumination @ 600mm	44,900 lux	
Illumination @ 1000mm	18,800 lux	
Beam diameter @ 600mm	82mm - Measured at 50% of peak value	
Beam diameter @ 1000mm	127mm - Measured at 50% of peak value	
LED average life:	35,000 - 50,000 hours	
Colour temperature:	4,546°K	
Colour redering index (CRI)	Ra 95	
Cyanosis observation index (COI)	2.2	
Dimming function:	4 Stage electronic dimming	
ARTG identifier	159702 Class 1 medical device	
Cardiac protection:	Compliant	
EMC Approval:	EMCTEST.688	
Voltage:	36V DC	
Weight:	Ceiling = 12Kg / Wall = 9Kg / Mobile = 15Kg	





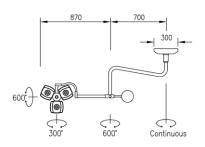
MSL SERIES 3 - CEILING, WALL & MOBILE TROLLEY

MSL Model Number

MSL-SL315C



Dimensions & Range of Movement



Features & Options

Custom made ceiling mounts to ensure lights are installed at the correct height as per the Australian standards.

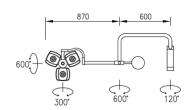
Standard with 360° continuous rotating electrical connector at the ceiling mount joint.

Removable sterilisable handle (autoclavable).

Ease of installation, supplied as a number of pre-assembled components.

MSL-SL315W





Optional orange hospital grade flex and plug fitted to wall mount box. Length of cord required to be nominated at time of order.

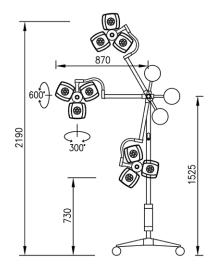
To specify add / FP

Removable sterilisable handle (autoclavable).

Ease of installation, supplied as a number of pre-assembled components.

MSL-SL315M





Standard wheels supplied are heavy duty 75mm dia.

Compact five leg base with two opposing brake wheels for increased stability.

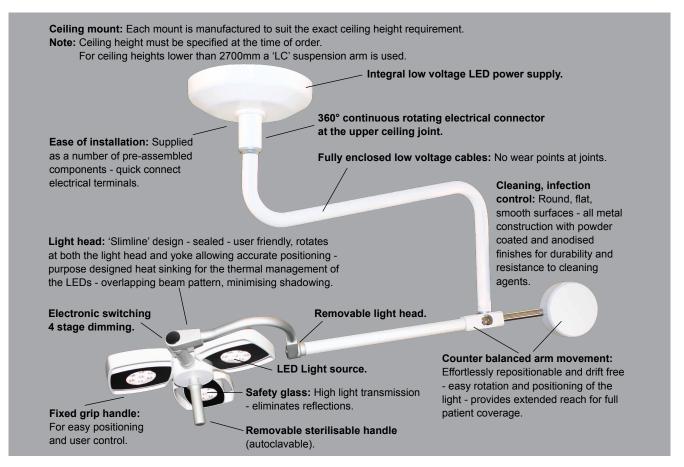
Three metre orange power cord with hospital grade plug. Cord support on pole when not in use.

Removable sterilisable handle (autoclavable).

Ease of installation, supplied as a number of pre-assembled components.

Designed and Manufactured in Australia

MSL - SERIES 3 KEY FEATURES & TECHNICAL DATA



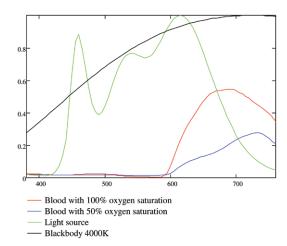
Colour Rendering Index:

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The LED module has a high "Special CRI R9" deep saturated red value (not included in normal CRI calculations). For medical examination tasks this R9 value is the key issue in diagnosis and accurate tissue identification.

MSL-SERIES 3

Wattage:	3 x 15W	
Illumination @ 600mm	80,800 lux	
Illumination @ 1000mm	53,200 lux	
Beam diameter @ 600mm	127mm - Measured at 50% of peak value	
Beam diameter @ 1000mm	132mm - Measured at 50% of peak value	
LED average life:	35,000 - 50,000 hours	
Colour temperature:	4,546°K	
Colour redering index (CRI)	Ra 95	
Cyanosis observation index (COI)	2.2	
Dimming function:	4 Stage electronic dimming	
ARTG identifier	159702 Class 1 medical device	
Cardiac protection:	Compliant	
EMC Approval:	EMCTEST.688	
Voltage:	36V DC	
Weight	Ceiling = 22Kg / Wall = 18Kg / Mobile = 23Kg	







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Please visit our website for additional information.

www.mslighting.com.au

MSL operates through a widespread network. Our design manufacturing and sales team has the capability to assist you through all phases of your project.







Your local distributor: