

**CIBSE**

LIG054  
LIG058  
LIG910  
LIG9004

**DARAY**<sup>®</sup>  
Medical

Product Datasheet

# Examination Light

# X100

## LED



## Introduction

The DARAY® X100 LED examination light is the perfect choice for value and performance. Designed for use in general examinations and diagnosis, this model boasts a cool LED beam and various mounting options, making it one of the most cost-effective and versatile examination lights on the market.

DARAY have been established in the medical, dental and veterinary markets since 1968 building exceptional and durable products. We shall continue to innovate; aiming to excel in our endeavours to deliver reliable solutions.

## Standard Features

- World-renowned LED technology
- Flexible gooseneck for versatile movement and solid positioning
- Excellent colour rendering - for totally natural skin tones
- Various mounting options available
- BioProtect® anti-microbial coating to assist in infection control
- Low total cost of ownership
- Energy-efficient, environmentally friendly, and a fully recyclable product

## Available Options

|  |  |
|--|--|
| X100LW                                   | DARAY X100 LED wall mounted examination light  |
| X100LR                                   | DARAY X100 LED rail mounted examination light (rail sold separately - see XRAIL below) |
| X100LD                                   | DARAY X100 LED desk clamp examination light  |
| X100LDS                                  | DARAY X100 LED desk stand examination light  |
| X100LFDM                                 | DARAY X100 LED fixed desk mount examination light                                      |
| X100LM                                   | DARAY X100 LED mobile examination light  |
| XRAIL                                    | 1m Medical Rail for mounting X100LR (includes wall fixings)                            |
| XBB12                                    | Battery back-up options available, please call   |
| Bespoke solutions available, please call |  |

# Technical Specifications

|                                  |                        |
|----------------------------------|------------------------|
| Light Source                     | LED                    |
| Light Intensity (Lux) @ 0.5m     | 14,000 Lux $\pm$ 5%    |
| Light Intensity (Lux) @ 0.75m    | 7,500 Lux $\pm$ 5%     |
| Light Intensity (Lux) @ 1.0m     | 3,500 Lux $\pm$ 5%     |
| Arm Length                       | 1000mm                 |
| Colour Temperature (Kelvin)      | 4,000K $\pm$ 500       |
| Colour Rendering Index (CRI)     | 95                     |
| Colour Rendering (R9)            | 88                     |
| Light Field Diameter (D50)       | @ 0.5m: 120mm          |
|                                  | @ 0.75m: 135mm         |
|                                  | @ 1.0m: 180mm          |
| Light Field Diameter (D10)       | @ 0.5m: 230mm          |
|                                  | @ 0.75m: 325mm         |
|                                  | @ 1.0m: 460mm          |
| Number of LED's                  | 4                      |
| Power Consumption                | 9W 0.1A                |
| Average Working Life             | >40,000 Hours          |
| Input Supply Rating              | 100 - 240V AC 50/60 Hz |
| Output Supply Rating             | 12V DC 1A              |
| Temperature Rise on Patient/User | $\leq$ 2°C             |
| Warranty Period                  | 5 Years                |
| NHS E-Class Code                 | FBU, FKR               |
| Commodity Code                   | 9018 908400            |
| GMDN Code                        | 12276                  |

## Notes

Our LED lighting has been developed to replace halogen completely. LEDs (light emitting diodes) have been around for a long time. Recently this technology has become leading-edge in the field of lighting - a breakthrough technological solution to the inherent problems of the incandescent light bulb.

We have taken the technology and developed it further to provide high definition lighting solutions with no infrared, high brightness, low environmental impact, low power consumption, no toxic chemicals and a long operating life.

## Medical Approvals/Certificates

The product(s) on this datasheet adhere to the following standards in line with the 93/42/EEC Medical Devices Directive - Classification: Class 1, Rule 1.

EN 13485

EN 14971

EN 9001

EN 60601-1

2014/35/EU Low Voltage Directive

EN 60601-1-2

EN 60601-1-6

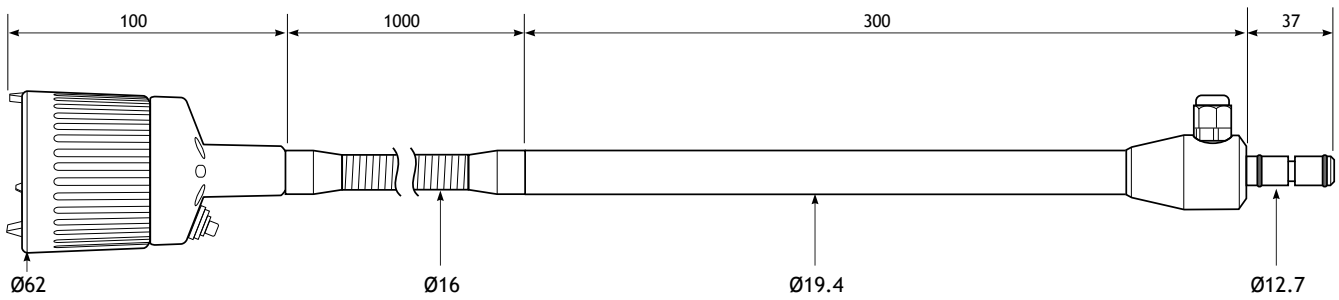
EN 60601-2-41

EN 1041

EN 60598-2-25

# Technical Drawings

X100 LED (all versions)

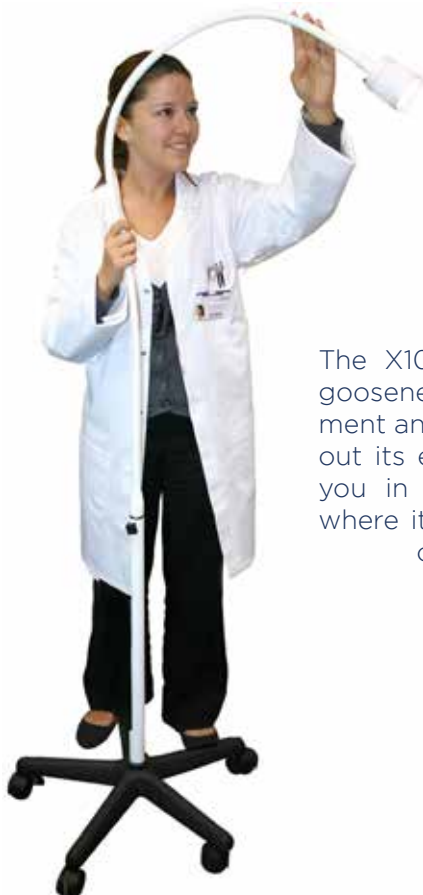


## Mounting Options

These are DARAY's standard mounting options, and are all **interchangeable**.



If you are looking for an examination light that can be **hardwired**; see the Datasheets for the X200/X210/X240 models.

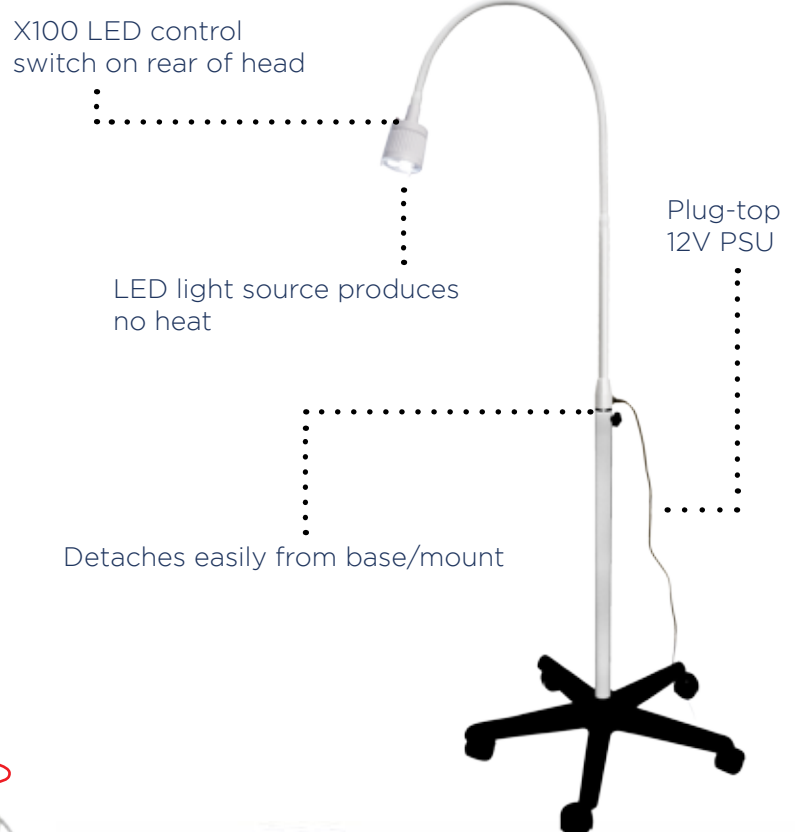


The X100 LED features a flexible gooseneck, offering versatile movement and solid positioning throughout its entire range. This will assist you in getting the light head to where it is needed, for all types of clinical examinations.



X100 LED Mobile  
Code: X100LM

# Image Gallery



X100 LED Wall Mount  
Code: X100LW



X100 LED Desk Clamp  
Code: X100LD



X100 LED Rail Mount  
Code: X100LR  
(shown here on XRAIL Medical Rail - available separately)