

# DARAY<sup>®</sup>

## Medical



# X230LED

## Medical Examination Light User Manual



# **DARAY**<sup>®</sup> Medical

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DARAY Ltd make every effort to ensure that the information in this document is correct and accurate, however, we cannot be held responsible for errors and omissions. DARAY Ltd reserves the right to alter specifications and to add and withdraw products without notice.

## 1. GENERAL DESCRIPTION

DARAY's X230LED is a state-of-the art, low-cost examination light for use during medical or veterinary consultation and diagnosis. This light is specifically designed for panel mounting. The light uses the latest next-generation LED technology to give the best intensity at the correct colour temperature with no heat in the light-beam.

The X230LED head swivels on a 800mm flexible arm to allow accurate and stable positioning of the light-patch. The flexible arm projects from an angled neck which swivels in its mounting. The head, handles and mounting are coated with DARAY's BioProtect™, an antimicrobial protection against bacteria such as MRSA.

The light comprises 4 parts: light-head, flexible arm/angled neck, power-supply unit, and mounting. The flexible arm allows the light patch to be placed accurately and stably where it is needed. The arm is covered with a PVC sleeve to prevent contamination and to allow easy cleaning.

The power-supply module contains an electronic transformer to provide a low voltage to power the light from the electrical mains.

The mounting bracket provides a simple method of fixing the light, allowing the base of the arm to swivel in front of the wall; a screw prevents the arm from accidentally being pulled out of the bracket.

This product is delivered in special-to-type packaging which, on the ends of the box, identifies the type and serial number of the light within.

## 2. SPECIFICATION

<b>Light output at 0.5 metre</b>	32,000 lux
<b>Light output at 1 metre</b>	8,000 lux
<b>Colour temperature</b>	4,300 K
<b>Luminous flux</b>	400 lm
<b>Colour Rendering Index</b>	Ra = 95
<b>Red Rendering</b>	R9 = 88

<b>Flexible arm reach</b>	800mm
<b>Base of arm rotation</b>	± 90°
<b>Head rotation</b>	± 150°
<b>Colour</b>	RAL 9016 white
<b>Input voltage</b>	230V, 50Hz
<b>Power consumption</b>	8.2 W

The product serial number and identifying labels are located on the base of the arm.

### 3. INSTALLATION/ASSEMBLY

Using the back-plate as a template, mark the four fixing holes (6.5mm), the central locking screw hole (6.5mm) and the cable access hole (9mm) on the mounting surface (temporarily inserting the spigot to assess whether it is vertical may help to achieve a level mounting).

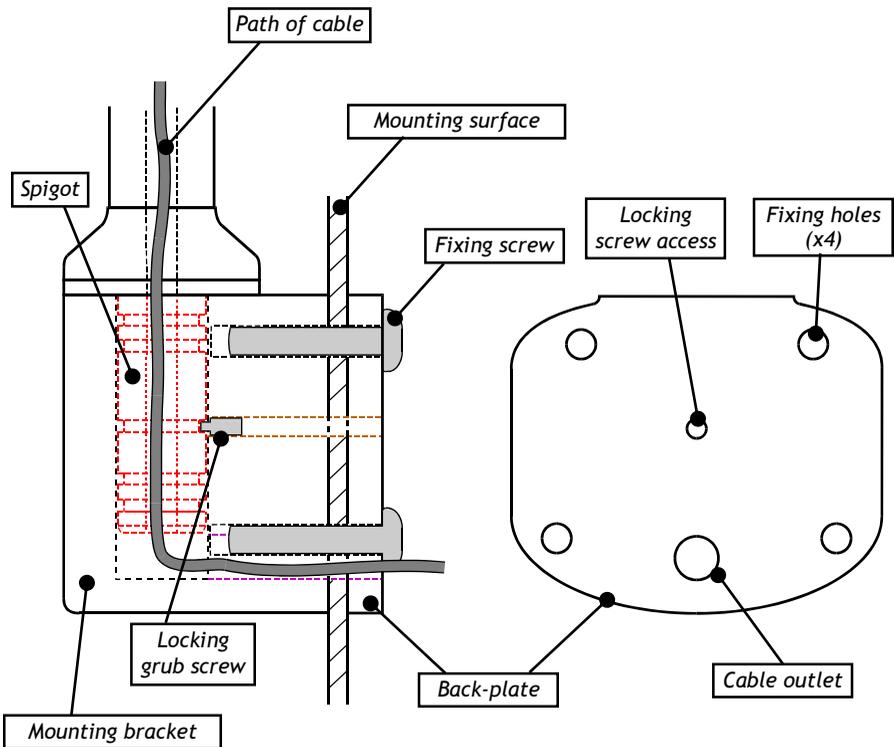
Drill the 6 holes.

Offer up the mounting bracket to the drilled holes and feed the cable through the mounting surface and mounting bracket.

Using 4 x M6x25 screws with 4 x non-slip washers, fit the mounting bracket by sandwiching the mounting surface between the bracket and the back-plate.

Connect the PSU to the cable protruding from the back-plate.

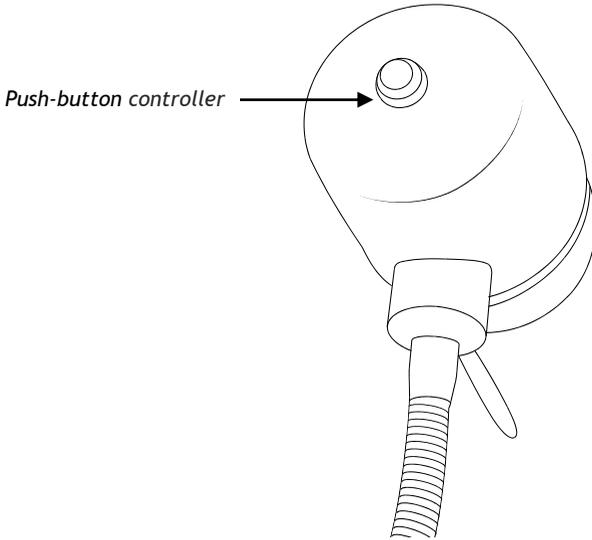
Connect the PSU to a fused 230V AC supply.



## 4. OPERATION

The light-head swivels on its mounting flexible arm, and the arm itself also swivels where it fits into its mounting, allowing the light patch to be placed where you want it.

Press the push-button on the rear of the lamp to turn the light on. Press and hold to adjust the intensity. Press the push-button again to turn the light off. Pressing the push-button again will turn the light at the last set intensity.



If the light is disconnected from the mains and reconnected the light's intensity is reset to its brightest setting.

**Note: Unplug the power supply if the light is not going to be used for extended periods.**

## 5. MAINTENANCE

The light should be dusted with a soft flannel cloth, and the front cover gently cleaned with an alcohol-based liquid, and wiped dry.

**WARNING: NO ABRASIVE CLEANING MATERIALS SHOULD BE USED TO CLEAN ANY PART OF THE LIGHT.**

PLEASE REFER ANY PROBLEMS INITIALLY TO YOUR DISTRIBUTOR.

DARAY Customer Services on +44 (0) 800 878 9864

Or email [technical@daray.co.uk](mailto:technical@daray.co.uk) for help with any problems the distributor cannot solve.

## Returns Policy

**IMPORTANT!**  
**Before returning your item, you must call us on 0800 878 9864**

We want you to be completely satisfied with your purchase. If you need to return goods purchased from DARAY Ltd, please read the following information carefully.

The DARAY Ltd returns policy provides guidance on when you can return goods we have supplied, and what you can expect from us once you do. To see our detailed returns policy and procedure visit [www.daray.co.uk/returns](http://www.daray.co.uk/returns)

TYPE OF RETURN	REMEDY
<b>DAMAGED GOODS OR DOA*</b> Goods which are physically damaged on delivery, or which do not function.	We must be notified within 24 hours of receipt.
<b>GOODS DEVELOPING A FAULT</b> Goods which have developed a fault within the warranty period.	Within 14 days of delivery we will replace the item as DOA*. If the fault develops after 14 days, but within the warranty period, we will initiate the returns procedure.
<b>NON WARRANTY</b> Goods which have developed a fault outside the warranty period.	If a fault develops outside the warranty period, we will initiate the returns procedure.
<b>OTHER</b> Any situation which is not covered by the above.	We will try to help, but we cannot normally offer a refund.

\*DOA - dead on arrival

For additional clarification, please refer to our terms and conditions at [www.daray.co.uk/terms](http://www.daray.co.uk/terms).

In a small number of cases, we may determine that a replacement would not work any better than the original product we supplied. In such cases we will only offer a refund rather than a replacement for qualifying returns.

Replacement bulbs are not eligible for returns, unless they are faulty or damaged.

Spare parts ordered on our website or from supplied part codes are not be eligible for credit. We will accept returns and exchange for the correct item.

If you purchase an item incorrectly you can return it within 14 days and it can be exchanged for another product of equal or high value, excluding transportation charges incurred.

If you send us goods that do not qualify for return, you will invalidate your claim to any refund, and you will be obliged to compensate DARAY Ltd for the cost of return postage and any other reasonable costs incurred processing the goods.

**Your statutory rights are not affected.**

# WARRANTY

## TERMS AND CONDITIONS OF WARRANTY

1. To qualify for this warranty you must register on [www.daray.co.uk](http://www.daray.co.uk) or return to Daray Ltd (Daray) the duly completed warranty-registration form accompanying the product.
2. Daray warrants this product (excluding lamp) against faulty material and workmanship during the period of the warranty. The period of warranty is the period stated on your warranty card and commences on the date of purchase of the product. In the event that the product is not in good working order Daray will provide, during the warranty period, a free repair service within the United Kingdom. The warranty is subject to proof of purchase being provided; therefore, you should retain your original receipt.
  - 2.1 The repair service consists of the provision of spare parts and/or replacement products (at Daray's discretion) which will be provided on an exchange basis and will either be new, equivalent to new or reconditioned. All replaced spare parts and products shall become the property of Daray.
  - 2.2 Daray's only obligation under this warranty is the provision of the service as set out above.
  - 2.3 All products are returned to Daray at the customer's cost and risk. Products to be returned should be adequately packed. For the address to send returns to please visit [www.daray.co.uk](http://www.daray.co.uk)
3. Daray's arrangements for providing service provided under this warranty may include the use of sub-contractors.
4. This warranty does not cover damage or defects in the Product caused by or resulting from:
  - Wilful neglect or negligence by anyone other than Daray;
  - Improper use, storage or handling of the product;
  - Use of non-Daray approved parts (such as replacement lamps) not compatible with the Product;
  - Fire, accident or disaster;
  - Use of non-Daray modifications other than in accordance with Daray's instructions;Attachment of fittings and accessories not approved by Daray;  
Repairs, modifications carried out by service personnel not approved by Daray;
  - Damage caused by chemical corrosion from cleaning agents not approved by Daray.
  - Failure to use or install the product in accordance with the manufacturer's instructions.
5. Nothing in this warranty shall have the effect of restricting or excluding the liability of Daray in respect of:
  - a) Death and personal injury caused by the negligence of Daray, or for fraud;
  - b) Under the *Consumer Protection Act 1987* to a person who has suffered damage caused by a defective product or to a dependant or relative of such a person;
  - c) Direct damage to your property caused by the proven negligence of Daray.
6. This agreement does not give any rights other than those expressly set out above and in particular, Daray will not be responsible for any loss of income, profits or contracts or any direct or indirect consequential loss, damage caused to or suffered by the purchaser as a direct result of this agreement.
7. This warranty is offered (subject to these terms and conditions) in addition to, and does not affect your statutory rights.
8. Daray may disclose your details and other personal information to companies within the Daray group including any subsidiary company or sub contractor of Daray for the purposes of performing our obligations hereunder.
9. You must not resell outside the UK any products supplied by Daray and covered by the *Export of Goods (Control) Order 1992* (or any law that replaces it) without obtaining all necessary licences. You also agree not to sell the product in the UK if you know or think that the person buying the product intends to export it without getting the necessary licences. You agree to impose similar conditions to these on anyone you sell the product to.
10. These conditions shall in all respect be governed and construed in accordance with English law and the exclusive jurisdiction of the English courts.



Alternatively register online at [www.daray.com](http://www.daray.com)

## Warranty Registration

Please complete and return to our freepost address.

## 5 Year Warranty\*



Name:
Company:
Email:
Phone:
Fax:

Address:
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Purchased from:
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Freepost plus RRAS-YGXE-SLBC

Daray Ltd  
Marquis Drive  
Swadlincote  
DE12 6EJ

Date of purchase:
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Occasionally Daray would like to send you information about our special offers and promotions. If you do not wish to receive such information please tick here:

Privacy statement: DARAY will not pass on your details to any third party.

Please note: Year 1 warranty includes parts and labour (return to base) Year 2 - 5 includes parts only
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Product:
Serial No:

\* UK only



