

CIBSE

LIG054
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DARAY[®]
Medical

Product Datasheet

Examination Light

X230

LED



Introduction

The X230 LED Examination Light provides a panel mount bracket with an angled, flexible neck for hardwiring to a bed-head service unit, and is designed specifically for use during medical consultation and diagnosis. Utilising LED technology, this general examination light has been developed to provide an intense beam with excellent colour rendering properties.

The X200 LED forms part of the **X200 LED Range**, which comprises the following models: X200, X210, X230, X240. All models in the X200 LED Range offer identical light output, though with differing mounting/wiring options:

- X200** - Same as X240, though with a flexible 'gooseneck' instead of the articulated (spring-balanced) arm.
- X210** - Available as a wall/rail mount solution with an integrated transformer, to be hardwired.
- X230** - Provides a panel mount bracket and an angled neck for mounting to bed-head trunking, to be hardwired.
- X240** - Same as X200, though with an articulated (spring-balanced) arm instead of the flexible 'gooseneck'.

Datasheets are available for each model in this Range.

Standard Features

- World-renowned LED technology
- Variable intensity
- Flexible gooseneck for versatile movement and solid positioning
- Excellent colour rendering - for totally natural skin tones
- BioProtect® anti-microbial coating to assist in infection control
- Fully positionable light head
- Energy-efficient, environmentally friendly, and a fully recyclable product

Available Options

X230LED	DARAY X230 LED bedhead panel mount examination light with flush fitting installation kit
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Notes

The X200 has a low 'total cost of ownership', costing up to 75% less to run than equivalent halogen lights. This light has around 50,000 hours of life from the LED light engine equating to around 25 years of clinical use (based on 5.5 hours clinical use per day).

This model requires minimal maintenance and has a smooth, fully enclosed BioProtect® head to assist with the management of infection control. This is an ideal light for GP surgeries and clinics where flexibility and performance are crucial. Choose between many different mounting types dependant on your application, including: wall, mobile, and desk mounting options.

Technical Specifications

Light Source	LED
Light Intensity (Lux) @ 0.5m	32,000 Lux \pm 5%
Light Intensity (Lux) @ 0.75m	14,000 Lux \pm 5%
Light Intensity (Lux) @ 1.0m	8,000 Lux \pm 5%
Light Intensity Adjustment Range	10 - 100%
Colour Temperature (Kelvin)	4,300K \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	3
Power Consumption	12W 0.1A
Average Working Life	>50,000 Hours
Input Supply Rating	100 - 240V AC 50/60 Hz
Output Supply Rating	30V 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

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



(UK Customers only)

Warranty

Our aftercare plan has been designed to offer complete peace of mind for the entire warranty period, during which time you will have access to our dedicated Service Delivery Team, who are here to assist you in any way they can.

Year 1 - Parts & Labour (return to base)

Years 2-5 - Parts only

Image Gallery

X230 control switch on rear of head



320° Head Rotation

X230 LED Wall Mount
Code: X230LED



3-LED Module offering 32,000 Lux @ 0.5m



Flexible gooseneck offers easy positioning

Technical Diagram

