

**CIBSE**

LIG054  
LIG058  
LIG910  
LIG9004

**DARAY**<sup>®</sup>  
Medical

Product Datasheet

# Examination Light

# X210

## LED



## Introduction

The X210 LED Examination Light 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.

**This model has an integral transformer housed within the wall mount. We can supply this model either with an IEC cable into the side of the wall mount, or as an 'electricians fit' version which allows the cable to pass directly through the rear of the wall mount, for integration into mains services.**

The X210 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
- Various mounting options available
- Energy-efficient, environmentally friendly, and a fully recyclable product

## Available Options

X210LW	DARAY X210 LED wall mounted examination light -- <b>with IEC cable</b>
X210LE	DARAY X210 LED wall mounted examination light -- <b>electricians fit (flush fit)</b>
X210LR	DARAY X210 LED rail mounted examination light (rail sold separately - see below) -- <b>with IEC cable/Curled IEC</b>
XRAIL	1m Medical Rail for mounting X210LR (includes wall fixings)
Bespoke solutions available, please call	

# 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	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

The X210 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 wall and rail mounted options.

## 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

2006/95/EC Low Voltage Directive

EN 60601-1-2

EN 60601-1-6

EN 60601-2-41

EN 1041

EN 60598-2-25

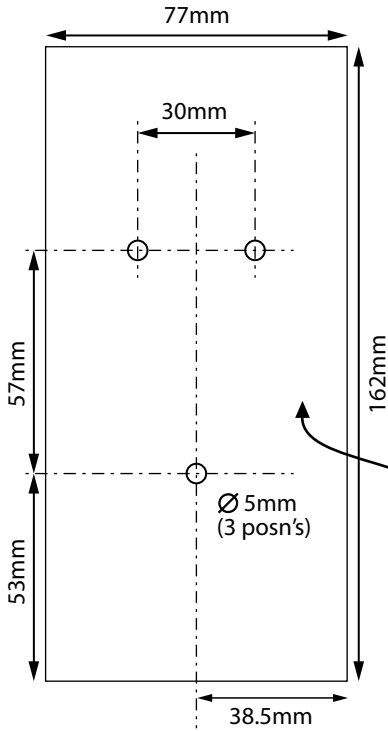
# Technical Drawings

The below dimensions apply to all versions of the X210 LED Examination Light

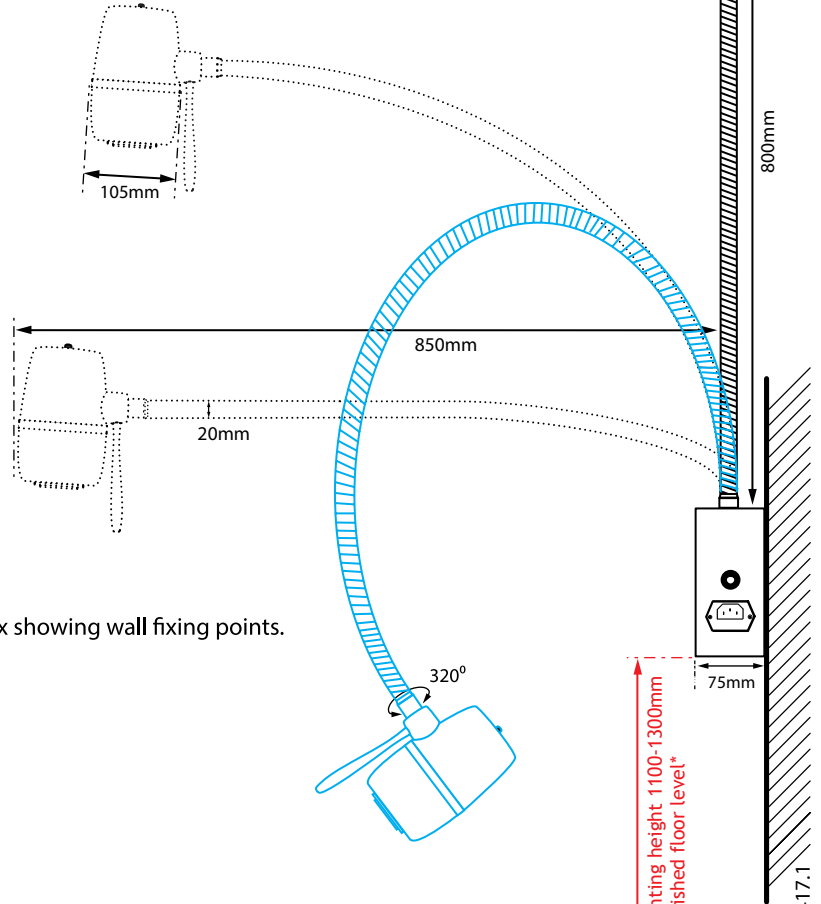


(UK Customers only)

Wall mounting box dimensions:



Rear of box showing wall fixing points.



\*All dimensions shown in red are based on a suggested mounting height (see underside of wall mounting box). For specific applications and environments, the mounting bracket should be installed at a height so that, when fitted, the lighthouse is as near to the required position as possible. Actual location should be dependent on intended use and desired reach. Common sense should always prevail.

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## Mounting Options

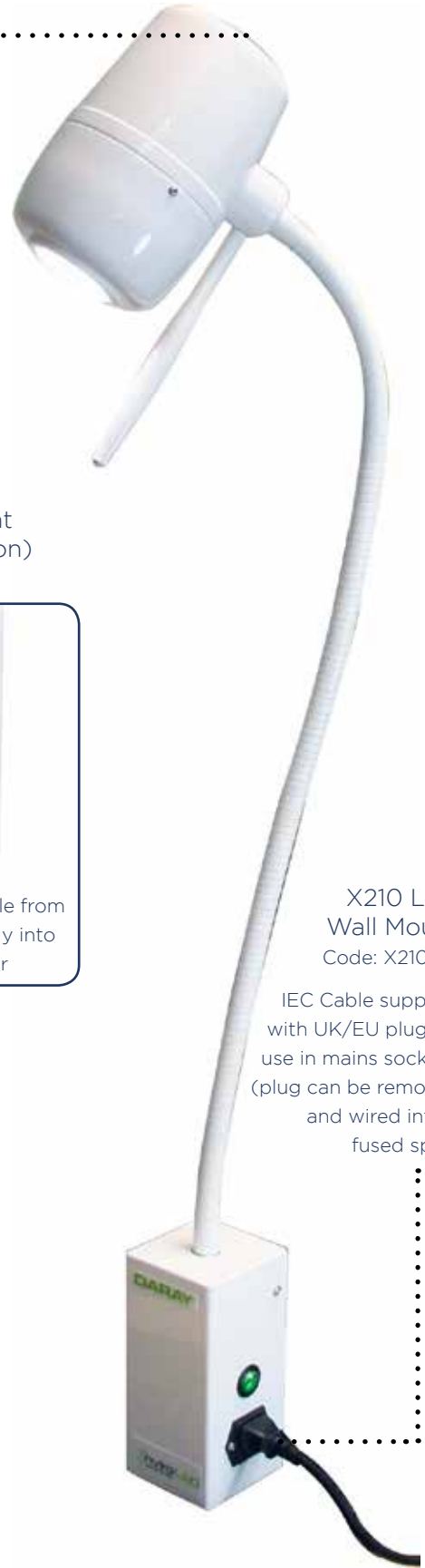


# Image Gallery



X210 LED control switch on rear of head

320° Head Rotation



X210 LED Wall Mount (Electricians fit version)  
Code: X210LE

X210 LED Wall Mount  
Code: X210LW

IEC Cable supplied with UK/EU plug for use in mains sockets, (plug can be removed and wired into a fused spur)



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



Requires: Mains-fed cable from rear, wired appropriately into terminal connector



Left:  
X210 LED Rail Mount  
Code: X210LR  
(shown here on XRAIL Medical Rail - available separately)