

Specialist products from **DARAY** for a range of medical applications

DARAY has been designing and manufacturing specialist lighting since 1968. A privately-owned British company based in Derbyshire, United Kingdom; DARAY has continued to expand on their product range and produce a comprehensive range of medical lights including operating theatre, examination and patient lighting to support the needs of medical professionals.

In more recent years, we have expanded our range to include many specialist lighting types and have introduced new products, including x-ray film viewers and surgical headlights to provide a total solution in patient management.

DARAY products are designed for Medical, Dental and Veterinary markets and we are a preferred supplier to the NHS. Our comprehensive range of lights are often the first choice in 'new build' hospitals and medical centres throughout the UK.

Quality and Customer Service.

DARAY recognise that customers are professionals who demand the same quality of service as their patients expect of them and are proud to be accredited to ISO 9001 and ISO 13485.







All products carry CE marking.



0800 804 8384

Please call our dedicated Sales team to obtain pricing Lines open Monday to Friday 8:30am-5pm, or email sales@daray.co.uk

The DARAY Sales team will guide you through your product selection and purchase process to ensure that you are purchasing the right equipment for the intended application. Alternatively all of our products and pricing can be viewed online at www.daray.co.uk.

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- 3 MAGW150 -- Dermatological UV Woods Lamp
- SP150 -- Mobile ENT/Examination Light
- SP1000 Series -- Range of Surgical Headlights
- DX4100 Series -- Range of X-Ray Film Viewers
- 10 MAG700 -- Magnifying Examination Light



MAGW150

Dermatological UV Woods Light

The DARAY MAGW150 Ultraviolet Wood's light is a must-have diagnostic tool for analysing skin conditions.

The MAGW150 allows clinicians to correctly inspect and diagnose a variety of conditions.

Lightweight and easy to use, the MAGW150 emits an ultraviolet light with the remarkable ability to note skin colour changes and variations in skin tone.

- Emits an ultraviolet light allowing clinicians to correctly inspect and diagnose a variety of conditions.
 - Remarkable ability to note skin colour changes and variations in skin tones.
 - Used in a variety of applications including dermatology, forensic science, veterinary medicine and childcare.
 - Lightweight and easy to use.
 - Choice of 3-Dioptre or 6-Dioptre lens

Ultraviolet light enables viewing of various dermatological conditions in an array of colours, making diagnosis easier

- Hardened skin and dead cells	White fluorescence
- Albinism - Depigmentation - Vitiligo	White
- Normal/healthy skin	Blue-white
- Oily hydrated skin - Thickened blemished skin - Congested skin with open pores and blackheads	Orange
- Thin skin - Cutaneous aging	Pink
- Normal/healthy skin	Yellow (sometimes pink)
- Pigmentation marks - Sun-damaged and prematurely aging skin	Brown
- Melasma (Chloasma)	Purple-brown
- Dehydrated skin	Light violet

Products Available

MAGW150/3	Handheld Wood's light - 3-Dioptre
MAGW150/6	Handheld Wood's light - 6-Dioptre
LB4100	Replacement UV bulb



Specifications

Bulb Type	9W UV lamp
Input Power	100-240 V AC 50/60Hz
Lens Size	110 x 75mm
Bulb Life	~5,000 hrs life per lamp

SP150

Mobile Focusable ENT/Exam light

The **DARAY** SP150 LED light features our high performance LED technology providing a crisp, uniform and focusable light patch to get the beam where it is needed.

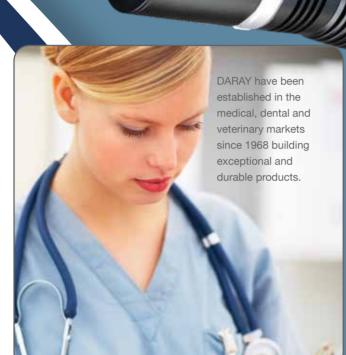


Committed to excellence

With a wide range of features as standard, the SP150 LED is suited for all types of general examination and diagnosis with the focusable beam being particularly useful for ENT examinations.



0800 804 8384 call to discuss pricing



Specifications

Light Source	LED
Light Intensity @ 1m	20,000 - 50,000 Lux
Light Field Diameter @ 1m	Focusable: 25 - 320mm
Light Intensity Adjustment Range	0-100
Colour Temperature	6,000 K (±500K)
Average Working Life	25,000 hours
Input Voltage	110V-240V AC 50/60Hz
Maximum Height	1820mm
Gooseneck Length	470mm

Products available

SP150LM DARAY SP150 LED ENT/Examination

5-metre high-visibility cable included



Tel: 0800 804 8384 Email: sales@daray.co.uk Edison House, Derbyshire, DE11 9DH



SP1000 Series

Range of Surgical/Examination Headlights

The **DARAY** SP1000 Series LED headlight range has been designed for use in all types of surgical procedures.

Available in 5W and 10W variants, the range uses LED technology alongside high quality optics transforming normal light into a clear, even and symmetrical lighting projection.

Extremely lightweight and easily adjusted, the SP1000 Series can be used comfortably for long periods.

- Variable intensity
- Focusable light beam
- 5W or 10W LED options
- No heat in the light beam
- 5,000K colour temperature
- Accurate viewing of tissue tone
- Intense and shadow free light
- Adjustable headband
- Rechargeable battery pack
- Flight case included



Focusable light patch shown at 300mm distance from subject







Wide beam 110mm diameter

Specifications

Light Source	LED
Light intensity @ 300mm	SP1000: 35,000 lux SP1100: 50,000 lux
Light field diameter @ 300mm	Focusable: 10 - 110mm
Battery run time (from full charge)	SP1000: 7-40 hours SP1100: 5-40 hours
Colour temperature	5,000 K (±500K)
Average working life	25,000 hours
Input voltage	110V-240V AC 50/60Hz
Output Voltage	4.2V DC 1.2A



Products available

SP1000	DARAY SP1000 5W LED headlight
SP1100	DARAY SP1100 10W LED headlight
CS6206	SP1000 Series replacement battery pack
CS6207	SP1000 Series replacement battery pack charger





Optical loupes with frames

Choose from a large range of strengths and focal lengths to suit your procedure/task. Lightweight and affordable, the outstanding magnification allows viewing of intricate objects and helps to reduce eye strain. Our optical loupes are supplied with the frames, though if you are already a wearer of glasses, you can simply detach the loupes from the frames and attach to your own. DARAY Loupes are fully adjustable to suit all face shapes.



Products available

Part no.	Magnification	Focal length (mm)	Field of view (mm)
DLL250/340	2.5x	340	80
DLL250/420	2.5x	420	100
DLL250/460	2.5x	460	110
DLL250/500	2.5x	500	120
DLL300/340	3x	340	70
DLL300/420	3x	420	84
DLL300/460	3x	460	92
DLL300/500	3x	500	100
DLL350/340	3.5x	340	60
DLL350/420	3.5x	420	72
DLL350/460	3.5x	460	78
DLL350/500	3.5x	500	84

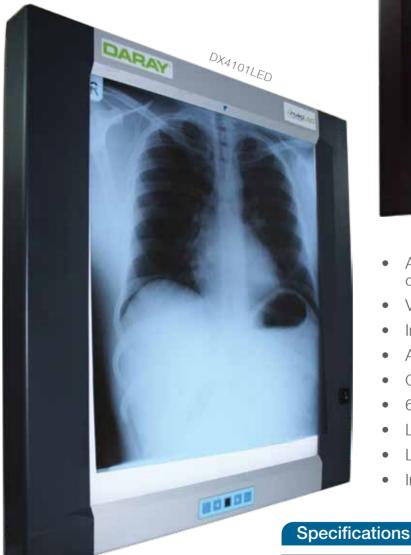


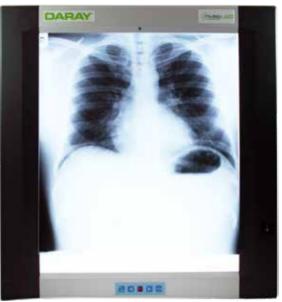
DX4100 Series

Slimline X-Ray Film Viewers

The **DARAY** DX4100 Series is a range of LED X-Ray Film Viewers that feature a modern slim design, variable intensity, and independent & automatic panels that provide clear and diffuse illumination.

The DX4100 Series is available as single and double wall-mounted units as standard with triple and quad versions available on Special order.





DX4101LED

- Available as single, double, triple and quadruple panel options
- Variable intensity: 4,000 10,000 lux
- Independently controllable panels
- Automatic film activation
- Only 45mm deep
- 60,000 hours lifespan
- LED technology
- Low-profile design
- Increased efficiency

Products available

DX4101LED	Single Panel LED X-Ray Film Viewer
DX4102LED	Double Panel LED X-Ray Film Viewer
DX4103LED	Triple Panel LED X-Ray Film Viewer (special order only)
DX4104LED	Quad Panel LED X-Ray Film Viewer (special order only)

	DX4101	DX4102	DX4103	DX4104
Luminosity		4,000 - 10,000 lux		
Visible Area	355x428	710x428	1065x428	1420x428
Dimensions	500x530x45	850x530x45	1200x530x45	1530x530x45
Light source	LED	LED	LED	LED
Power	23W	46W	69W	92W
Voltage	90 - 240V AC 50/60Hz 1Ph			
Weight	6.5Kg	9Kg	13.5Kg	17Kg



Environmentally friendly products - our green promise delivered.

- DARAY's LED technology has an intense clear white light beam equivalent to 20W halogen whilst consuming only 5W.
- 25,000 hours of life from the LED light engine.
- No more bulbs to change reduces waste by 95% over the light's lifetime.
- No halogen, mercury, cadmium, lead or CFCs. No chemicals harmful to the environment.
- Hard-wearing and fully recyclable when the light comes to the end of its life.



MAG700

Magnifying Examination Light

The **DARAY** MAG700 LED light is a high-quality circular magnifying light featuring an LED light source that enhances colour contrasts, whilst reducing shadow.

With smooth contours and dust cover to protect the lens, the MAG700 LED magnifying light is perfect for a variety of applications. This model can be supplied with the lens of your choice; choose from three different strengths.

This general-purpose magnifier carries steady movement to a reach of 800mm, and the light head has triple-axis rotation for ease of positioning.

A range of interchangeable mounting options extends its flexibility.

- LED technology (80 LED lamps)
- Low total cost of ownership
- Robust with long lamp life
- Slim design
- 3, 6 and 12 dioptre options

Equivalent to...

- 800mm reach
- Fully enclosed spring-balanced arm
- Various mounting options available

Size increase...

Lens cover

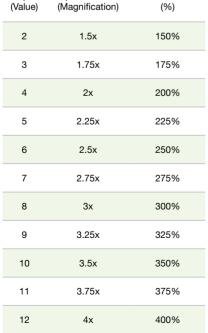
Dioptre



What is	'Dioptre'?
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You will often see the term 'dioptre' used when searching for a magnifier. This quite simply refers to the amount of curvature in the lens. The higher the dioptre value, the more powerful the magnification, and the greater curvature of the lens. The term 'dioptre' directly identifies the refractive capacity of a lens, which is different from the term 'magnification'. Magnification is the degree to which the viewed object is enlarged, this is usually expressed by the symbol 'x', which denotes the viewed size of the object in relationship to its actual size. The table on the left shows the equivalent magnification matching each dioptre value.

When choosing your dioptre, it is important to consider how much magnification is required for the intended application. Are you dealing with micro components, or foreign object removal? Either way, ensure the strength matches your needs.





Actual size



As viewed under 3-dioptre lens



As viewed under 6-dioptre lens



As viewed under 12-dioptre lens











Further mounting options available - call to discus

Products available

MAG703LD	3-Dioptre version, with Desk Clamp
MAG703LW	3-Dioptre version, with Wall Bracket
MAG703LM*	3-Dioptre version, with Mobile Base
MAG706LD	6-Dioptre version, with Desk Clamp
MAG706LW	6-Dioptre version, with Wall Bracket
MAG706LM*	6-Dioptre version, with Mobile Base
MAG712LD	12-Dioptre version, with Desk Clamp
MAG712LW	12-Dioptre version, with Wall Bracket
MAG712LM*	12-Dioptre version, with Mobile Base
*Please note the mobile version has a restricted range	

*Please note the mobile version has a restricted range of movement to maintain its balance

Specifications

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Light Source	LED	
Number of LED's	80	
Average Working Life	>25,000 hours	
Light Head Diameter	200mm	
Lens Diameter	125mm	
Magnification options	3-Dioptre / 6-Dioptre / 12-Dioptre	
Warranty Period	3 Years (UK only)	
Input Voltage	100-240 VAC / 50~60 Hz	
Output Voltage	24V DC / 1A	
NHS E-Class Code	FBU, FKR, KBB	
Commodity Code	9018 908400	
GMDN Code	12276	



QUICK REFERENCE GUIDE

MAGW150

Main Features

- Handheld to offer unlimited manoeuvrability
- Ultraviolet light source
- Remarkable ability to note skin colour changes and tone variations
- Used in a variety of applications including dermatology, forensic
- science, veterinary medicine and childcare - Lightweight and easy to use
- Choice of 3-Dioptre or 6-Dioptre lens

Order Codes

MAGW150/3	DARAY MAGW150 Handheld Wood's light - 3 dioptre
MAGW150/6	DARAY MAGW150 Handheld Wood's light - 6 dioptre
LB4100	Replacement UV bulb

SP150

Main Features

- Designed specifically for ENT use
- Focusable light beam for viewing small cavities
- Crisp, uniform light patch with excellent colour rendering
- Variable intensity: 20,000 50,000 Lux @ 1m working distance
- LED technology providing increased efficiency
- Digital control panel with a bright illuminated display
- Flexible gooseneck for ease of positioning

Order Codes

SP150LM	DARAY SP150 LED Mobile ENT/Exam light
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SP1000 Series

Main Features

- Intense, shadow free light with variable intensity
- Focusable light beam
- 5W or 10W LED options
- No heat in the light beam
- 5,000K colour temperature: Accurate viewing of tissue tones
- Adjustable headband and rechargeable battery pack
- Flight case included

Order Codes

SP1000	DARAY SP1000 LED 5W headlight
SP1100	DARAY SP1100 LED 10W headlight
CS6206	SP1000 Series replacement battery pack
CS6207	SP1000 Series replacement battery pack charger







All products carry CE marking.



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Complies with BS EN 60601-2-41

MAG700

Main Features

- LED technology (80 LED lamps)
- Low total cost of ownership
- Robust with long lamp life
- Slim design
- 3, 6 and 12-Dioptre options
- Fully enclosed spring-balanced arm with 800mm reach
- Various mounting options available

Order Codes

MAG703LD	DARAY MAG700 LED 3-Dioptre, with Desk Clamp
MAG703LW	DARAY MAG700 LED 3-Dioptre, with Wall Bracket
MAG703LM	DARAY MAG700 LED 3-Dioptre, with Mobile Base
MAG706LD	DARAY MAG700 LED 6-Dioptre, with Desk Clamp
MAG706LW	DARAY MAG700 LED 6-Dioptre, with Wall Bracket
MAG706LM	DARAY MAG700 LED 6-Dioptre, with Mobile Base
MAG712LD	DARAY MAG700 LED 12-Dioptre, with Desk Clamp
MAG712LW	DARAY MAG700 LED 12-Dioptre, with Wall Bracket
MAG712LM	DARAY MAG700 LED 12-Dioptre, with Mobile Base

DX4100 Series

Main Features

- Available as single, double, triple and quadruple panel options
- Variable intensity: 4,000 10,000 lux
- Independently controllable panels
- Automatic film activation
- Low profile panels: Only 45mm deep
- 60,000 hours lifespan
- LED technology; reducing energy and maintenance costs

Order Codes

DX4101LED	DARAY Single panel LED X-Ray Film Viewer
DX4102LED	DARAY Double panel LED X-Ray Film Viewer
DX4103LED	DARAY Triple panel LED X-Ray Film Viewer
DX4104LED	DARAY Quadruple panel LED X-Ray Film Viewer



Committed to excellence