

DARAY[®]

Medical



SL720

LED Mobile Minor Surgical Light User Manual

DARAY[®] Medical

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1. GENERAL DESCRIPTION

DARAY's SL720 LED is a cost-effective mobile medical minor surgical light utilising LED technology.

The mobile base contains a transformer to convert the mains electrical input to a safe, low voltage which is fed to the light-head. The base is very stable and manoeuvrable, and is fitted with 2 locking and 2 free castors; it will fit underneath most couches, tables and chairs.

The SL720 LED light-head swivels through 320° on a flexible arm on top of a telescopic up-stand, allowing the light-patch to be directed wherever it is required for examination.

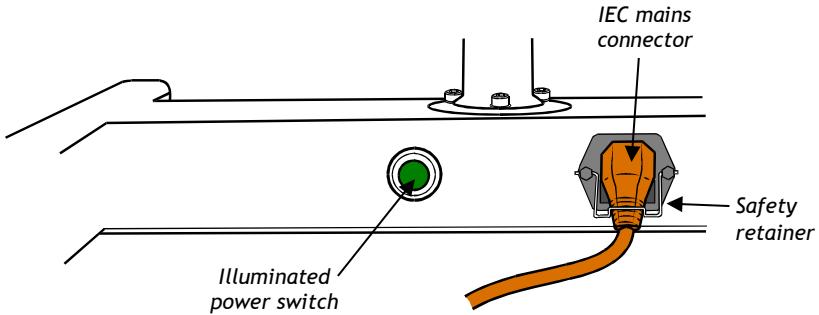
DARAY's BioProtect anti-microbial coating is applied to all painted finishes. All other surfaces are smooth to aid cleaning and sterilisation.

2. SPECIFICATION

Light intensity @ 0.75m	12,500 - 77,000
Light intensity @ 1m	8,000 - 50,000
Colour Temperature	3,600 - 5,500K
Colour Rendering Index (CRI)	85-93
Red Rendering (R9)	56-90
Light Field Diameter (d50)	100 - 180mm
Focusing Depth	800mm
LED Power	12W (12x1W LED's)
Input Power	30W
Output supply	24V DC
Input Supply Rating	230V AC 50/60Hz
Average working life	Approx. 50,000 Hours

The product serial number and identifying labels are located next to the mains inlet on the rear of the mobile base.

3. OPERATION



Position the light by moving it using the handle provided on the main stand.

Note: The light must not be moved or lifted using the light-head handle or gooseneck. To position the light, hold the upstand and position the light-head using the handle. Failure to do so could damage the light.

- The front castors on the base have brakes which can be used to help keep the base from moving whilst the light-head position is adjusted.
- Unwrap the flex from the cable holders
- Plug the IEC connector into the base ensuring the metal safety retainer is fitted over the top of the IEC plug connector.

Once connected to the mains, switch the illuminated power switch ON and the green indicator will be illuminated. If the indicator does not illuminate, check the power supply and then check the fuses located in the IEC socket on the mobile base (see *section 5. FUSE REPLACEMENT*) and also in the mains plug. Further fault investigation should only be carried out by a qualified electrician.

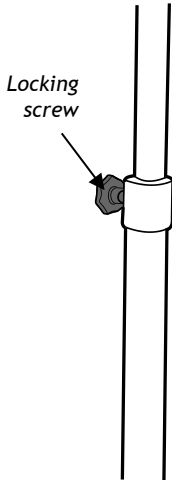
Turning the light ON/OFF and adjusting the intensity

The SL720 uses a single button (on the side of the head) to power the light on and off.

Next to this switch are four buttons split into paired controls for variable intensity (LUM - Luminance) and colour temperature (TEM - Temperature); press the + button to increase light intensity or colour temperature and press the - button to reduce them.



The light-head can be rotated on the flexible arm which itself can be bent almost double so the light patch may be directed at will.



The telescopic extension is released for raising and lowering, and locked by the locking screw at the rear of the up-stand.

Use the light-head handle to position the light-patch to where it is required. In the interests of cross-infection control, avoid touching any other part of the light.

The light-handle is removable and autoclavable.

Press the button on the side of the handle to remove.

To replace, push the handle onto the adaptor and turn until the button fits into the guide and clicks into place. Additional handles are available for purchase

- Contact Daray Sales Office.

4. MAINTENANCE

WARNING: Do not use strong chemical cleaning agents to sterilise the light. Do not use any abrasive materials to clean the light. The light is not waterproof, so do not use excessive cleaning fluid amounts.

1. Suitably protect hands.
2. Clean the lens by carefully use of a microfibre cloth or other non-abrasive optical lens cleaning material.

Warning: Scratching or marking the lens surface can dramatically affect the optical performance of the light and is not covered by the warranty.

Note: The following instructions refer to all surfaces of the light but excluding the lens surface.

3. Wipe the light using lint-free cloth - pay special attention to the switch area.
4. Apply to all surfaces a 1% solution of sodium hypochlorite using a soft cloth.
5. Within 10 minutes, remove the chemical from all surfaces using a damp, soft cloth. The chemical will cause corrosion of metal parts, if it is not thoroughly removed.
6. Apply isopropanol to the surfaces - this is an alcohol-based fluid which evaporates without leaving any residue and can be obtained as an impregnated-cloth applicator.



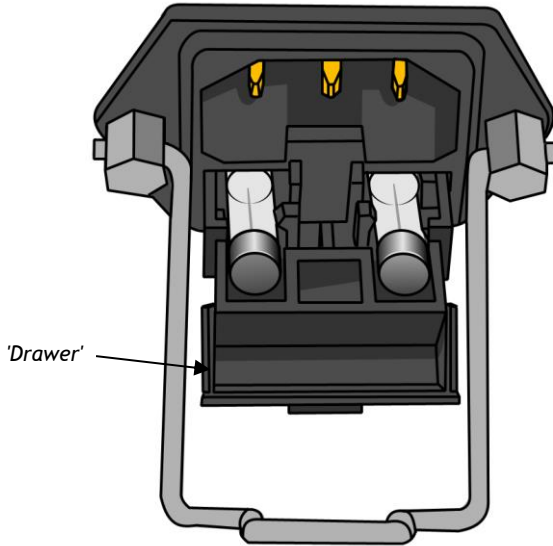
Reorder: DRK4080 Microfibre cloth

5. FUSE REPLACEMENT

CAUTION: fuses normally blow for a reason. Investigate likely faults before changing fuses.

CAUTION: isolate the unit from the mains before accessing the fuses.

Both the live and neutral mains inputs are fused. The fuses are contained in a holder which is part of the IEC inlet mounted on the rear panel of the mobile base.



Unplug and remove IEC cable. Using a flat-bladed screwdriver, or similar, pull forward the 'drawer' containing the fuses. Hinge down the front of the holder. Lift the fuses by pushing them through the holes below.

Refit new fuses (D10873) and reverse the removal sequence, ensuring the 'drawer' is pushed fully home.

6. SPARE PARTS

CAUTION: Use only genuine 'DARAY' replacement lamps as other types may seriously impair the optical performance of the product.

ITEM NO	PART NAME	TYPE	PART NO
1	Fuse	1A 20mm	D10873
2	Microfibre cloth	5 pack	DRK4080
3	Autoclavable handle for SL720	Each	CS6165

PLEASE REFER ANY PROBLEMS INITIALLY TO YOUR DISTRIBUTOR.

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

Or email technical@daray.co.uk for help with any problems the distributor cannot solve.

7.TROUBLESHOOTING GUIDE

Problem	Possible Cause	Corrective Actions
No light output	On/Off button	Press the power button on the head of the light to check if the light will power on (if not refer to power supply actions).
	Power supply	Check the mains cable is plugged in and switched on at the power socket and the base of the light. Continued failure may require testing the transformer (this will require the use of a voltmeter to confirm a measurement).
	Fuses	Visually check fuses then check continuity with a meter - see section 5
Poor Light output	Control panel	Please check the variable intensity is not set to its minimum.
	Voltage in	Verify the correct mains voltage
Light patch not focused	Light head	In the unlikely event that this happens, please contact Daray
Stiff movement	Overly tightened grub screws	Contact Daray

8. WARRANTY INFORMATION

6.1 Returns Policy



IMPORTANT!
 Please fill out your warranty registration online at
www.daray.co.uk/warranty or contact Daray by phone (0800 878 9864)
 or email support@daray.co.uk

DARAY's standard warranty is 12 months. However, depending on the product purchased this period may be extended to 3 or 5 years* free of charge by completing and submitting the warranty registration.

For the specific warranty period for this product, please refer to the warranty symbol in the upper right of this page.

Year 1: Warranty includes parts and labour *UK only (Return to Base)
 Year 2-3: Parts only

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

TYPE OF RETURN	REMEDY
DAMAGED GOODS Goods which are physically damaged on delivery	We must be notified within 24 hours of receipt.
Dead On Arrival (DOA) Goods which do not work	Goods which do not work on arrival or develop a fault within 28 days, we will advance replace the item.
GOODS DEVELOPING A FAULT Goods which have developed a fault within the warranty period.	If the fault develops after 28 days, but within the warranty period, we will initiate the returns procedure.
NON WARRANTY Goods which have developed a fault outside the warranty period.	If a fault develops outside the warranty period, we will initiate the returns procedure charges may be applicable.
OTHER Any situation which is not covered by any of the above.	We will always try to help, but we cannot normally offer a refund.

For additional clarification, please refer to our terms and conditions at 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 and spare parts ordered on our website or from supplied part codes are not eligible for credit. We will accept returns and exchange for the correct item.

If your purchase an item incorrectly you can return it within 14 days and it can be exchanged for another product of equal or higher value, excluding transportation charges incurred. Goods and packaging must be returned in their original condition. Under no circumstances will goods be accepted for return if they are damaged, have been subjected to improper handling or abuse or have been used.

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.

TERMS AND CONDITIONS OF WARRANTY

1. To qualify for this warranty you must register on 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
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.

Product:

Serial No:

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