



## MAGW150 Series

Ultraviolet Wood's Examination Light  
User Manual & Installation Guide

QAM.MAGW150.0915.3



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# 1. Introduction

Thank you for choosing a Daray MAGW150 Wood’s light.  
The MAGW150 is specifically designed to meet the demanding needs of today’s dermatologists and skin clinicians whilst providing the finest quality design with superior performance, reliability and value. The MAGW150 emits ultraviolet light with the ability to note minor skin colour changes and variations in skin tone. Under UV light different substances become luminous when exposed making it a useful tool for forensic technicians, veterinary surgeons, dermatologists and many more.  
It comes in various mounting options such as: handheld, spring balanced arm or gooseneck, and can be desk or wall mounted. Bespoke options are also available making the light extremely versatile.

This user & installation guide contains all the information you need for installation, operation and maintenance.

For further information on our product range and find out more about our company please visit [www.daray.co.uk](http://www.daray.co.uk) or call **0333 321 0971**

This product was designed & manufactured in Great Britain by:  
Daray Ltd.  
Marquis Drive, Moira  
Swadlincote  
Derbyshire  
DE12 6EJ

## 1.1 Supported Lights

The Following Models are supported in this Manual	
MAGW150 Woods Light	Handheld
	Flexible Gooseneck Desk Mounted
	Flexible Gooseneck Wall Mounted
	Rigid Arm Desk Mounted
	Rigid Arm Wall Mounted

## 1.2 Lighting Specification

Light Specifications	
Bulb	9W UV Lamp (LB4100)
Power	230V 50Hz
Reach (gooseneck and rigid arm only)	1000mm
Lens Size	110mm x 75mm
Lens Strength	3 Dioptre as Standard (6 Dioptre coming soon)

## 1.3 Pre-Installation Responsibilities and component packing list

This document is a guide to the steps that need to be performed to correctly install the MAG W150 Woods light. However, the work required to be performed is the responsibility of the owner or designated contractor/s.

All fixings between Daray lights and the building super-structure must be approved by either the chief project engineer or an appropriate and competent structural assessor.

The components supplied by Daray for fitting / installation should be the following items in the specified quantities.

Handheld	Qty.
Lighthead with handle, hardwired to a 1m lead with plug	1
User Manual	1
Microfibre cloth	1

Wall Mounted	Qty.
Lighthead on a gooseneck or spring balanced rigid arm	1
Wall bracket with thumb screw	1
User Manual	1
Microfibre cloth	1

Desk Mounted	Qty.
Lighthead on a gooseneck or spring balanced rigid arm	1
Desk Mounted G-Clamp	1
User Manual	1
Microfibre cloth	1

## 2. Operation

### 2.1 Skin Conditions

The MAGW150 is an ultraviolet light, which enables the user to analyse the surface and deeper layers of the skin in order to determine the proper treatment for various skin conditions.

The following is a table that describes how common dermatological skin conditions appear under the ultraviolet light.

**Note:** The light must be used in a totally dark room.

Dermatological Condition	Colour Output
• Hardened Skin and dead cells	White Fluorescence
• Albinism • Depigmentation • Vitiligo	White
• Acne Scarring	Yellow (sometimes Pink)
• Oily Hydrated Skin • Thickened Blemished Skin • Congested Skin with open pores and blackheads	Orange
• Thin Skin • Cutaneous Aging	Pink
• Normal / Healthy Skin	Blue-White
• Pigmentation Marks • Sun damaged and prematurely aging skin	Brown
• Melasma (Chloasma)	Purple-brown
• Dehydrated Skin	Light Violet

### 2.2 Pre-Start Checks & Powering On



Please check that the power cable (when applicable) is without visible damage, harsh folds, knots or cuts in the rubberised coating

Check that the plug is fully inserted into the wall socket and then switch the power on. The MAGW150 uses a single button on the top of the head to power the light on and off.

## 2.3 Adjusting the Lighthead

Depending on the mounting option selected the MAGW150 head may be secured using a large thumb screw. This is only relevant for heads attached to the rigid spring balanced arm. This thumb screw also controls the forward and backward motion of the head itself.



Loosening this thumb screw will allow you to position the lighthead up or down. Care should be taken not to over tighten the screw.

### 3. Installation

#### 3.1 Handheld Operation

To use the handheld version of the MAGW150 you will need to locate a power socket within range of your examination point, plug the light into your desired location then:

1. Open the protective cover plate



2. Reduce light in the room to a minimum
3. Turn the Wood's light on with the switch
4. Allow the light to warm up for about a minute
5. When finished, turn off and close the protective cover plate to protect the viewing magnifier



3.2 Desk Mounted Bracket Assembly



3.2.1 Considerations

Desk Construction	Before fixing it is important to consider the strength of the Desk, do not place the desk clamp near weakened corners and please ensure the clamp is fully seated on the desk before locking it in position
Examinations to be undertaken	The desk mounted edition of the MAGW150 will have a reduced examination range based on its flexibility. Based on the specific medical procedures the light will be used for; at times it may be necessary to change the mounting location.
Locations of nearest mains sockets	The MAGW150 has a cable that is approximately 1.0m so the desk mounted light should be within range of a mains power point.

### 3.3 Wall Mounted Bracket Assembly



The wall bracket needs to be true on the vertical plane.



#### 3.3.1 Considerations

Wall Construction	<p>Before fixing it is important to consider the strength of the wall and the depth of the fixings used.</p> <p>Use of a building engineer or structural drawings may be required to decide on suitability.</p>
Examinations to be undertaken	<p>The wall mounted version has a recommended installation height of approximately 1600mm from the floor (to the bottom of the bracket)</p> <p>It may be necessary to adjust this height if there are specific medical procedures the light will be used for.</p>
Locations of nearest mains sockets	<p>The MAGW150 has a cable that is approximately 1.0m so the wall mounted light should be kept within range of a mains power point.</p>

### 3.3.2 Placement and Installation

The power supply for the MAGW150 series is a standard mains plug that leads into the light's body. These can be inserted into any standard UK wall socket.

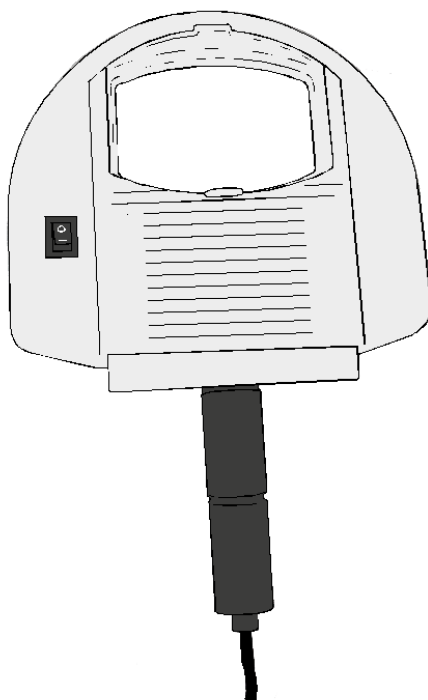
The light can now be tested by applying power and pressing the switch on the head.

Check arm and head for smooth and correct movement. Your new Daray light is now ready for use.

**To gain full support of our warranty please fill in our warranty web form or contact Daray by phone or email.**



Daray also provide service plans to help you maintain your light. Contact Daray on **0800 878 9864** for more details.



## 4. Maintenance

The proposed maintenance is only a suggestion. Depending on the use of the product and the operating environment, this may need to be revised more often. Daray would strongly recommend against “quick fixes” with tape, etc. If you cannot resolve a problem then please contact our helpline on **0800 878 9864** or email **support@daray.co.uk**

### 4.1 Maintenance schedule

<b>Weekly checks should include:-</b>	Range of movement testing, it should be light and easy to move throughout the range
	No visible signs of excessive wear.
<b>Monthly checks to include:-</b>	Check the downtube and thumb screws for wear and report as necessary
<b>Six monthly checks to include:-</b>	Remove head and clean the interior of the hinge
	Remove arm, clean spigot and re-grease as necessary.
	Check all electrical connections are sound and that there is no visible cable wear.
	All fixings to be checked and be of sound construction.

### 4.2 Safety Precautions

- For all cleaning work, power off the equipment and where possible unplug the mains socket, only minimal cleaning fluids should be used.
- Please do not look directly into the light source when illuminated.
- If the equipment is dented or scratched this should not impact the usability of our lights however we advise that if the BioProtect® coating is damaged and the metal casing underneath is visible, please do not attempt to ‘paint’ over it as this will impact upon the effectiveness of the coating, simply use an alcohol based cleaning spray when cleaning and pay special attention to the cut.



If there is damage to the power cable or if exposed wire is visible  
**DO NOT USE**

### 4.3 Bulb Replacement

The MAGW150 may need to have its bulb replaced during the lifetime of the light. To remove the bulb please follow these instructions.

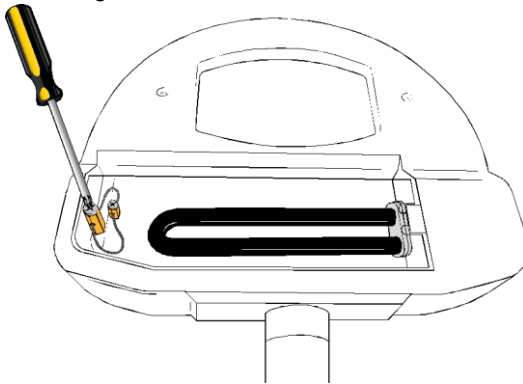


**Do not use undue force when replacing lamps, as it may shatter causing injury.**



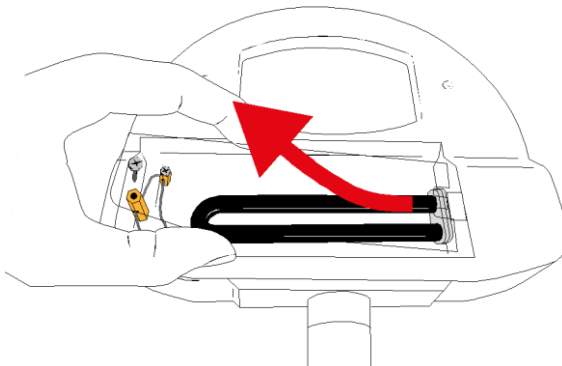
**Ensure the Wood's light is disconnected from mains before replacing lamps.**

Remove the crosshead screw from the lamp protection cover, the screw should remain attached to the cover to prevent it being lost.

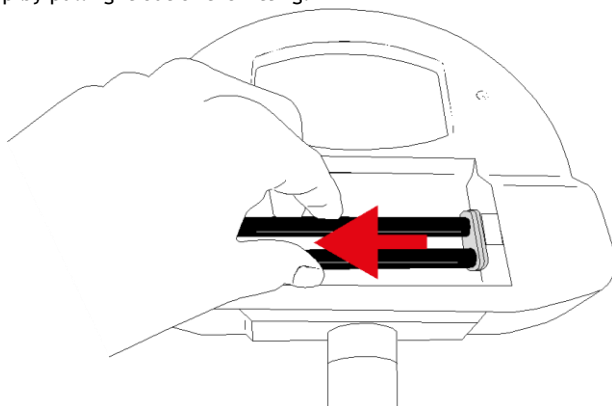


Expose the lamp below by lifting the lamp protection cover and sliding it out of the retaining slot.

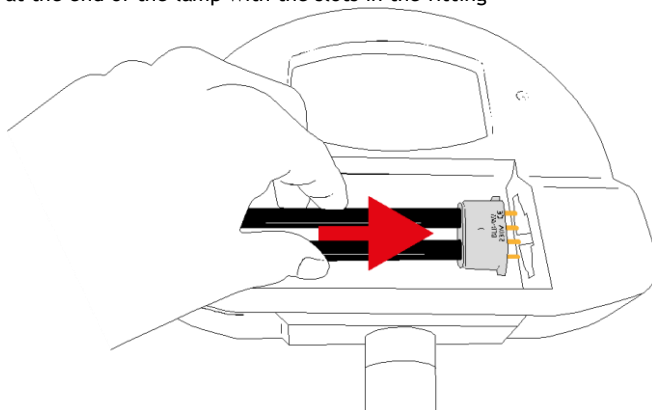
**NOTE:** There is a wire thread keeping the cover attached to the main unit of the light, be careful not to snap the cover when replacing the lamp.



Remove the lamp by pulling it out of the fitting.



Align the pins at the end of the lamp with the slots in the fitting



#### 4.4 Cleaning



**Do not use strong chemical cleaning agents or any abrasive materials to clean the light. The light is not waterproof so the use of excessive amounts of cleaning fluids could cause serious harm or injury.**

We advise that the light should only be dusted with a soft flannel cloth, and the lens gently cleaned with an alcohol-based liquid (aerosol) spray, and wiped dry.

## 4.5 Adjustments

With the spring balanced arm version, the head of the MAGW150 has a 180 degree forward and backward motion; this is adjusted secured by the thumb screw at the bottom of the lighthouse.

The head has a total turning capability of 320 degrees, attempting to push further may cause damage to the movement and internal wiring of the light.

The handheld and flexible neck versions of the light have increased movement capabilities over the spring balanced arm and should not require any adjustment.

### 4.5.1 Rigid Arm Adjustments

MAGW150's that are mounted on spring balanced rigid arms are designed to be able to be moved using a single finger touch.



***Warning! These arms are under spring tension, as such do not try and adjust the internal mechanics of the arms.***



These arms shouldn't need adjustment in their life cycle however if they start to droop or require any other work, we recommend that you contact Daray customer services to discuss this.

For any issues requiring service work on the MAGW150 please contact daray, as unauthorised work will **invalidate the warranty**.

## 5. Troubleshooting Guide

Problem	Possible Cause	Corrective Actions
<b>No light output</b>	Power Supply	Check that the selected socket is under power and the power is switched on at all relevant points
	On/Off/Intensity Button	Press the button on the back of the light to check if the light will power on (if dimmed refer to poor light output actions).
	Fuses	Visually check fuses then check continuity with meter
	Cables	Please disconnect the device from the mains before checking the visible wiring for any damage, if any damage is present DO NOT USE
<b>Poor Light output</b>	Voltage out	Verify correct secondary voltage (please contact daray for nominal voltage under load).
	Voltage in	Verify that the correct mains voltage and correct transformer is being used
<b>Arm drift sideways</b>	Wall mount or downtube	On installation the arm has most likely not been vertically aligned and levelled. Please contact the original fitter or a qualified electrician
<b>Head movement or drift</b>	Light head	Please check the tightness of the thumb screw adjuster just below the head of the light

## 6. Replacement Parts

Picture	Description	Order Code
	Head thumb Screw	<b>CS6143</b>
	Wall bracket and downtube extension thumb screw	<b>CS6141</b>



## 7. Warranty Information

### 7.1 Returns Policy

#### IMPORTANT!

Please fill out your warranty registration online at [www.daray.co.uk/warranty](http://www.daray.co.uk/warranty) or contact Daray by phone (0800 878 9864) or email [support@daray.co.uk](mailto:support@daray.co.uk)

DARAY's standard warranty is 12 months. However, this period may be extended for most lighting products from 3 to 5 years\* free of charge by completing and submitting the warranty registration.

Year 1:	Warranty includes parts and labour (Return to Base)	*UK only
Year 2-5:	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](http://www.daray.co.uk/returns)

TYPE OF RETURN	REMEDY
<b>DAMAGED GOODS</b> Goods which are physically damaged on delivery	We must be notified within 24 hours of receipt.
<b>Dead On Arrival (DOA)</b> 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.
<b>GOODS DEVELOPING A FAULT</b> 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.
<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 charges may be applicable.
<b>OTHER</b> 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](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 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.

## 7.2 Warranty Details

### 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.

Product:

Serial No: