

DARAY[®]

Medical



MAG700 Series

LED Magnifier Light

User Manual & Installation Guide

QAM.MAG700.0915.4

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1. Introduction

Thank you for choosing a Daray MAG700 Series Magnifier Light. The MAG700 Series has a smooth, spring balanced arm for smooth one touch movement. This makes the light extremely versatile, perfect for a myriad of tasks.

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 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	
MAG700 Series (MAG703, MAG706 & MAG712)	MAG700 Series Desk Clamped
	MAG700 Series Desk Stand
	MAG700 Series Fixed Desk Mount
	MAG700 Series Mobile Mounted
	MAG700 Series Wall Mounted

1.2 Pre-Installation Responsibilities and component packing list

This document is a guide to the steps that need to be performed to correctly install the MAG700 Series Magnifier 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.

Desk Clamp	Qty.	Desk Stand	Qty.
MAG703 Magnifier Light (or 706/712)	1	MAG703 Magnifier Light (or 706/712)	1
Desk G Clamp (PIVOTD2)	1	Desk Stand (PIVOTS)	1
User Manual	1	User Manual	1

Fixed Desk Mount	Qty.	Wall Mounted	Qty.
MAG703 Magnifier Light (or 706/712)	1	MAG703 Magnifier Light (or 706/712)	1
Desk Mount (PIVOTFDM)	1	Wall Mount (PIVOTW2)	1
User Manual	1	User Manual	1

Mobile Mounted	Qty.
MAG703 Magnifier Light (or 706/712)	1
Weighted Mobile Mount (MAGMOB)	
- Upstand & spigot adapter	1
- 5 Wheel Castor base	1
- Balancing weight	1
- Shakeproof washer	1
- Securing Bolt	1
- 5m Orange Power Lead	1
User Manual	1

2. Operation

2.1 Pre-Start Checks



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 socket and then switch the power on.



2.2 Adjusting the Lighthead

The MAG700 head is secured using a large thumb screw. This 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.

Keep hold of the lighthead when loosening the screw to prevent sudden drops, care should also be taken not to over tighten the screw as this could cause stiffness in the joint.

3. Installation

3.1 Considerations

Live Electric Circuitry	All personnel working around live circuitry should be qualified and following proper procedures
Existing Environmental Factors	When fitting, considerations have to be taken for existing services such as; doors, shelves, cupboards, desk space and obstructions on the desk; such as computer monitors along with any possible surrounding hazards.
Environmental Responsibility	Once our products are installed all packaging should be disposed of appropriately and recycled in accordance with local governing regulations at an authorised recycling facility.
Work to be undertaken	For correct installation it will be necessary to decide the location of where you want the head to situate. This will be dependent on the specific requirements of your work / examinations.
Locations of nearest power	Our base unit design uses a standard moulded plug connection. Only the supplied certified connection should be used with the light. The length of this cable is approximately 1.6m so the light should be within 1.3m of a mains power point (5m cable for mobile versions).

Daray's standard mounting option for the MAG700 series is a Desk G clamp mount, we also offer additional or bespoke mounting options. Ultimately the mounting method used is the responsibility of the project engineer or fitter. This includes deciding on the suitability of the surface to be fixed to.

3.2 Desk mounted assemblies



PivotD2



PivotS



PivotFDM

3.2.1 Considerations

Desk Clamp	This mount can be fixed to desks and workbenches. Before fixing, it is important to consider the strength and thickness of the Desk.
Desk Weight	This mount is an unfixed weighted base. It can be positioned and repositioned as required however please keep in mind that the weighted base is heavy. Ensure the weight cannot be accidentally knocked off the side of your work surface as this could cause physical damage.
Fixed Desk	This mount is a long term work surface mounting point. Before fixing, it is important to consider the strength and thickness of the work surface; and the suitability of the fixings used. Use of an experienced fitter may be required.

3.2.2 Placement and Installation

PivotD2

Decide where you want to place the clamp

Slacken the clamp thread underneath to a point where the desk edge can fit between the clamping sections.

Place and tighten the clamp to lock the mount in position. Once secure, insert the arm spigot into the mount and supply power to the unit.

PivotS

With a suitable location identified, place the weight onto the desk and insert the arm spigot, then supply power to the unit.

PivotFDM

With a suitable location identified, use the 4 holes as guides for your fixings. Drill, screw or install the mount using appropriate fixings.

Loosen the thumb screw on the side and insert the arm spigot, retighten and supply power to the unit. Loosen the thumb screw lightly to move the light sideways.

3.3 Wall mounted assemblies



Wall brackets need to be true on all planes.



PivotW2



PivotW3



PivotW4

3.3.1 Considerations

Wall Construction	Before fixing it is important to consider the strength of the wall and the depth of the fixings used. Use of a building engineer or structural drawings may be required to decide on suitability.
Examinations to be undertaken	For correct installation it will be necessary to decide the location of where you want the head to situate. This will be dependent on the specific requirements of your work / examinations, if in doubt consult the end user or DARAY.
Locations of nearest power	Only the supplied certified power connection should be used with the light. The length of this cable is approximately 1.6m so the wall mounted light should be within 1.3m of a mains power point
Pivot W3 and W4	Both the Pivot W3 and W4 are primarily designed for hardwired versions of the light. The PivotW3 is designed to be compatible with BESA Box style trunking (please note, reinforcement between the BESA trunking and the wall structure may be required). The PivotW4 incorporates a wide spreader plate with an optional hidden cable feed point. Use of a competent engineer as well as structural drawings may be required to decide on suitability.

3.3.2 Placement and Installation

Pivot W2

- Place the mounting bracket on the wall in the selected location, bearing in mind the final position of where the lighthouse is required.
- Check the alignment of the bracket and ensure that it is level.
- Use the bracket as a guide to mark the location of the fixing points on the wall. Remove the bracket and make holes for the fixings in the desired location.
- Attach the bracket to the wall.
- Fit the spigot on the end of the arm into the bracket and tighten the locking screw, do not over-tighten the thumbscrew.
- Always loosen the thumbscrew to allow it to turn.
- Please note fixings are not included.

Pivot W3

If the unit is being mounted to a BESA junction box, the location of the BESA will need to be in a pre-determined location so as to ensure that when the light is fitted where the final location and range of movement of the light allows it to be used appropriately by the end user.

- Ensure the BESA (junction) routing is level and secure to the wall.
- Insert the light into the mounting bracket and tighten the thumbscrew to lock the bracket onto the spigot.
- Feed the cable through the silicone tubing and make the electrical connection.
- **Connect the grounding wire from the back of the bracket to an appropriate earthing point within the BESA terminal.**
- Screw the bracket onto the BESA junction box.
- Insert the included blanking caps into the unused holes on the front of the bracket.
- Loosen the thumb screw on the side of the unit to allow movement of the light.

Pivot W4

The Pivot W4 is designed with an enlarged spreader plate for use with thinner mounting areas (such as partition walls) along with hidden hardwiring.

- Place the mounting bracket on the wall in the selected location, bearing in mind the final position of where the lighthouse is required.
- Ensure the mounting bracket is level and balanced on both planes.
- Mark and drill the holes for fixing the bracket to the wall.
- Feed the cable through the silicone washer and then the bracket, make the electrical connection.
- Tighten the thumb screw on the side of the unit to lock the light in place.
- With the cables fed appropriately, connect the bracket to the wall / panelled surface.
- Loosen the thumb screw on the side of the unit to allow movement of the light.

3.4 Mobile Mount Assembly



3.4.1 Considerations

<p>Mobile Light Movement</p>	<p>The mobile edition of the MAG700 has a weighted plate included with the base. This is a counter weight that is essential for the MAG700 to provide the optimum range of movement without balancing issues. We would however advise that when possible, users should not use or leave the light at its maximum protrusion.</p>
<p>Assembly</p>	<p>Assembly will require a 22mm spanner and may also require use of a wooden or rubber mallet</p>

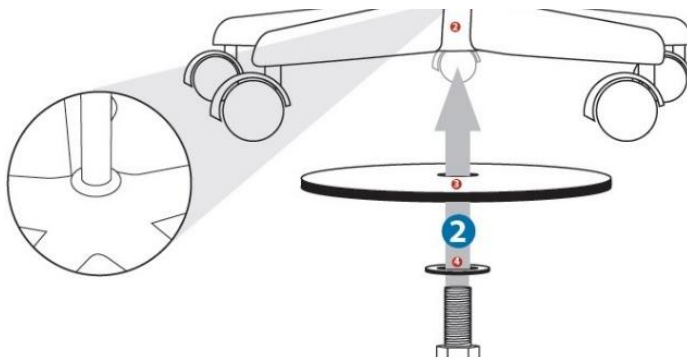
3.4.2 Placement and Installation

- Place the castor base on firm ground and insert the up-stand into the hole located in the centre and push down firmly until the up-stand is fully inserted.

Warning: If the up-stand is not fully inserted into the castor base it may become unstable whilst in operation.

- Rest the mobile base on its side. Align the hole of the weighted plate with the threaded hole in the centre of the castor base.
- Push the bolt through the shake-proof washer and then the weighted plate.
- Tighten the bolt clockwise to lock the plate onto the base.

Warning: Do not over tighten the bolt as this may damage the threading.



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

Weekly checks should include:-	Range of movement testing, it should be light and easy to move throughout the range with no drift.
	No visible signs of excessive wear.
Six monthly checks to include:-	Check all electrical connections are sound and that there is no visible cable wear.
	Check any and all fixings to ensure they are safe and secure.

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 there are any cuts, 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**



If there is damage to the casing to the point where ingress into the unit possible, **DO NOT USE**

4.3 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 front cover gently cleaned with an alcohol-based liquid (aerosol) spray, and wiped dry.

4.4 Fuses and their replacement

The MAG700 series is a mains powered device which has a fuse located in the plug for the wall socket. There are no other user changeable parts in this light. For any advice on internal circuit burn-outs and other replacements; please contact Daray.

The fuse supplied in the plug is 3 amps. To replace the fuse you will need a thin flat bladed screwdriver. Insert the screwdriver into one of the slots in the side of the fuse housing and wedge the fuse and its housing out of the plug. Replace and reinsert.

Power on the light and check that it is fully functional. If fuse blows again then it may need investigating further by an engineer.

4.5 Adjustments

The MAG700 Series lights are all mounted on spring tensioned rigid arms; these are balanced specifically to be able to be moved easily.



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 MAG700 Series please contact daray, as unauthorised work will **invalidate the warranty**.

5. Warranty Information



5.1 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 (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

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.

5.2 Warranty Details

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:

