Quasar eLite HD-LED®
Instructions for Use

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Contents

1  Before using the equipment ................................................................. 4
   1.1  Symbols used ........................................................................ 4
   1.2  Models covered .................................................................. 4
   1.3  Related guides ................................................................... 4
   1.4  Classifications .................................................................. 5
   1.5  Environmental conditions ...................................................... 5

2  Qe60 Operating instructions ................................................................. 6
   2.1  Using the Controls ................................................................. 6
   2.2  Using the Focus controls ......................................................... 8

3  Qe30 Operating Instructions ................................................................. 9
   3.1  Using the controls ................................................................. 9

4  Replacing the sterilisable handle cover .............................................. 11

5  Additional Instructions for Mobile Version ....................................... 12
   5.1  Transporting the mobile lamp ................................................. 12
   5.2  Emergency Power Supply (EL Versions Only) ....................... 13

6  Cleaning Instructions ........................................................................ 14

7  Disposal Instructions ....................................................................... 15

8  Declaration of Conformity ............................................................... 16

9  Guarantee ....................................................................................... 17
   9.1  Terms of the Guarantee ....................................................... 17
   9.2  Conditions of the Guarantee ................................................. 17
1 Before using the equipment

For your full satisfaction with this equipment it is recommended that you read this section carefully before you start to use it.

1.1 Symbols used

The symbols used in this guide and on the product are explained in the following table.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔴</td>
<td>WARNING/DANGER – Pay special attention.</td>
</tr>
<tr>
<td>🎩</td>
<td>Note this point.</td>
</tr>
<tr>
<td>📚</td>
<td>Refer to another section/guide.</td>
</tr>
</tbody>
</table>

1.2 Models covered

<table>
<thead>
<tr>
<th>Model</th>
<th>Approx. weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qe60 Standard model</td>
<td>16kg</td>
</tr>
<tr>
<td>Qe60 LC &amp; SC models</td>
<td>13.3kg</td>
</tr>
<tr>
<td>Qe30 Standard model</td>
<td>7kg</td>
</tr>
</tbody>
</table>

1.3 Related guides

The other guides that relate to the Quasar HD-LED operating theatre luminaires are:

- Quasar eLite HD-LED Quick Start Guide
- Quasar eLite HD-LED Installation Guide
- Quasar eLite HD-LED Routine Maintenance Guide.
1.4 **Classifications**

The classifications are explained in the following table.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical classification</td>
<td>Class 1</td>
</tr>
<tr>
<td>Classification according to EU Medical Device Directive 93/42/EEC</td>
<td>Class 1</td>
</tr>
<tr>
<td>Lamp head degree of protection from ingress of dust and water</td>
<td>IP54</td>
</tr>
<tr>
<td>Degree of protection against the presence of flammable anaesthetic mixtures</td>
<td>Not for use in a flammable atmosphere</td>
</tr>
</tbody>
</table>

1.5 **Environmental conditions**

The environmental conditions relate to transportation/storage and operating.

1.5.1 **Transportation and storage**

The environmental conditions relating to transportation and storage are explained in the following table.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>-40°C to 70°C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>10% to 95% non-condensing</td>
</tr>
<tr>
<td>Pressure</td>
<td>500hPa to 1060hPa</td>
</tr>
</tbody>
</table>

1.5.2 **Operating**

The environmental conditions relating to operating are explained in the following table.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>15°C to 30°C ambient temperature</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>10% to 80% non-condensing</td>
</tr>
</tbody>
</table>
2 Qe60 Operating instructions

2.1 Using the Controls

The main features of the Control Unit are highlighted in the illustration below. See Fig 1 below.

![Control Unit Illustration](image)

**Fig 1**

2.1.1 Switching the lamp on/ off

To turn the lamp on press any button on the keypad. To turn the lamp off, press the centre button.

When the lamp is off, the red standby LED to the right of the centre button illuminates, indicating standby mode.
2.1.2 Increasing/decreasing the red balance

The % visible red light, i.e. the red balance control, is by factory default set at the midpoint. See Table 1 below.

To decrease the colour Temperature, press the Up Red Balance button until the required balance is achieved.

To increase the colour temperature, press the down Red Balance button until the required balance is achieved.

Note: More Red will give a lower colour temperature so less red will give a higher colour temperature.

<table>
<thead>
<tr>
<th>RB-LED</th>
<th>Red Balance / Colour Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Full Red</td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Factory Default</td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>No Red</td>
</tr>
</tbody>
</table>

Table 1

2.1.3 Increasing/decreasing the light intensity

The light intensity control is by factory default set to 3, i.e. 3 of the 6 LED's are illuminated.

To increase the light intensity, press the (+) Intensity button until the required intensity is achieved.

To decrease the light intensity, press the (−) Intensity button until the required intensity is achieved.

2.1.4 Zooming the surgical camera in/ out (if fitted)

To Zoom the camera in, press the lower Zoom button until the required field of vision is achieved.

To Zoom the camera out, press the upper Zoom button until the required field of vision is achieved.
2.2 **Using the Focus controls**

Focusing the field of light can be achieved in two ways by using either the key pad or by using the handle.

2.2.1 **Key pad**

- To increase the field of light press the lower button
- To decrease the field of light press the upper button.

2.2.2 **Handle:**

- To increase the field of light, turn the handle clockwise.
- To decrease the field of light turn the handle anti-clockwise.
3  Qe30 Operating Instructions

3.1  Using the controls

When the lamp is fully assembled and ready to use, connect the power supply to the mains supply. A Flashing green LED (INT LED 1) see below, indicates that the lamp is in standby mode.

The main controls are explained in the following table.

<table>
<thead>
<tr>
<th>Action</th>
<th>Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase intensity</td>
<td>(INT +)</td>
</tr>
<tr>
<td>Decrease intensity</td>
<td>(INT -)</td>
</tr>
<tr>
<td>Increase Red Balance</td>
<td>(INT +)</td>
</tr>
<tr>
<td>Decrease Red Balance</td>
<td>(INT -)</td>
</tr>
<tr>
<td>On/ Off</td>
<td></td>
</tr>
</tbody>
</table>

Fig 3

3.1.1  Switching the lamp on/ off

To switch the lamp:

A single green LED will be flashing to indicate that power is supplied.

- On, push the On/Off button
- Off, push the On/Off button.

3.1.2  Increasing/ decreasing the light intensity

To increase the light intensity, push and hold or make multiple single pushes of the (INT +) intensity button until the required intensity is achieved.

To decrease the light intensity, either push and hold or make multiple single pushes of the (INT -) intensity button until the required intensity is achieved.

ียว The green light scale, which increases from one light (minimum intensity) to five lights (full intensity), should be illuminated.
3.1.3 Increasing/decreasing the Red Balance

Use the (+) and (-) red balance buttons to move between the 3 available settings.

*Note: More red will give a lower colour temperature so less red will give a higher colour temperature.*

3.1.4 Controlling the focus

To adjust the size of the illuminated field, rotate the sterile handle on the face of the lamp.

To increase the field size, rotate the sterile handle clockwise.

To decrease the field size, rotate the sterile handle anti-clockwise.

![Image of lamp with red balance buttons]  
*Fig 4*

3.1.5 Service Hour Counter

If the lamp is on and one of the Red Balance LED's is flashing; this indicates that the pre-set working hour service interval has been exceeded and the lamp is due for a service. To reset the service hour timer, see installation guide or contact Brandon Medical.

The factory default level for working hours is set at 1000 Hours.
4 Replacing the sterilisable handle cover

All lamp units are supplied with a quick-release sterilisable handle cover.

⚠️ Do not use the handle carrier without a sterilisable cover fitted.

To fit a sterilisable handle cover you only need to push the handle cover over the Carrier until an audible click is heard and the handle has locked in position. As shown below. To release the sterilisable handle cover, simply push the blue release button and the cover can be removed.

Fig 5

⚠️ The sterilisable handle cover as supplied is not sterile. You must sterilise it by autoclave – typically steam sterilisation at 134°C for three minutes.

- Extra handle covers – Part No. HM33562C – are available from Brandon Medical.
- Disposable handle cover systems are also available from Brandon Medical.
5 Additional Instructions for Mobile Version

5.1 Transporting the mobile lamp

Before moving the mobile unit ensure the lamp is placed in the Transport position, where the spring arm is positioned centrally along its axis and the Lamp head is in its lowest position, see image below.

Ensure that all brakes are released and that the unit is un-plugged from the mains socket and stowed safely. Push the unit slowly using the blue Grab handle in the direction indicated below.

![Transport position top view](Fig 6)

![Transport position side view](Fig 7)

The mobile unit can only be moved on a smooth even surface. Small rises or steps may cause the unit to stop abruptly allowing it to over balance.
5.2 Emergency Power Supply (EL Versions Only)

5.2.1 Warnings

Mains Healthy Indicator - Under normal mains supply the green indicator will be illuminated.

Low Battery Warning – Batteries are about to become exhausted

When the mains supply is disconnected then the yellow indicator will illuminate when the batteries are 80% discharged, showing the batteries are about to become exhausted. The operating lamp connected to the system will continue to operate until the batteries become fully discharged. At this point the batteries will be disconnected and the lamp will not illuminate. The mains supply should be re-established before the lamp will re-illuminate.
6 Cleaning Instructions

⚠️ Do not clean the lamp heads with alkaline cleaning solutions or bleach, which may damage the plastic material.

Brandon Medical approves the use of the following cleaning solutions on its products:

- Hexaquart® plus – dilute to strength
- Meliseptol® rapid – pre-prepared spray
- Meliseptol® HBV – tissues.

These chemicals are manufactured by B Braun Ltd and are available from Brandon Medical. To order these products please contact your local stockist.

Please ensure that the solutions are not applied to warm surfaces and that any excess solution is wiped from the surface and not allowed to dry as this may lead to a build-up of deposits.

Make sure you check the manufacturer’s instructions regarding the dilution factors for a particular solution.

You can clean the body of the lamp using proprietary non-alkaline, sterilising solutions as instructed by the manufacturer.
7 Disposal Instructions

Do not dispose of the light with normal refuse. Depending on local regulations, dispose of the light at a recycling centre or return it to a dealer with a disposal service.

Equipment must be de-contaminated before disposal or return to dealer.
8 Declaration of Conformity

Brandon Medical Co Ltd hereby declares that this product – Quasar eLite HD-LED – is in compliance with the EC Directive 93/42/EEC.


Despite any compliance with EMC standards, the device may emit radiation that interferes with adjacent equipment. If this becomes apparent then increase the distance between the two pieces of equipment.
9 Guarantee

9.1 Terms of the Guarantee

Subject to the conditions listed below Brandon Medical Company Ltd guarantee to provide for the repair of, or at its option replacement of Brandon Medical equipment, or any component thereof (other than consumables), found to be faulty or below standard, as a result of inferior workmanship or materials. This Guarantee will be passed to the purchaser through the Approved Brandon Medical Distributor where equipment is purchased outside of the United Kingdom.

9.2 Conditions of the Guarantee

- This Guarantee shall only apply to defects or faults that are notified to Brandon Medical Company Ltd. or its Approved Distributor within 12 months of the delivery date.
- This Guarantee covers equipment intended for use in hospitals and healthcare establishments only.
- It is a condition of the Guarantee that the equipment is maintained as recommended in the instruction manuals provided.
- This Guarantee does not cover - and is invalidated by - faults or defects caused by accident, misuse, fair wear and tear, neglect, tampering with the equipment, or any attempt at adjustment or repair other than by Brandon Medical approved Service Technicians.
- In the unlikely event of the equipment requiring repair, please contact the Dealer or Supplier from whom it was purchased. Where this is not possible or where the equipment was purchased direct from Brandon Medical Company Ltd., please contact us directly:
  - Tel: +44 (0)113 277 7393
  - Fax: +44 (0)113 272 8844
  - E-mail: enquiries@brandon-medical.com
- The cost of any carriage to and from the Dealer, Supplier, Brandon Medical Company Ltd or approved Service Agent shall be borne by the Purchaser.
- This Guarantee cannot be varied except by written notification by Brandon Medical Company Ltd authorised by a Company Director.
- Under no circumstances whatsoever shall Brandon Medical Company Ltd. be liable in respect of consequential loss.
- The Guarantee is subject to the equipment in question having been paid for in full.
- This Guarantee is offered as an additional benefit to the Purchaser's statutory rights and does not affect these rights in any way.