Guidelines for safe use of the Green Series Portable Headlight

Intended use
This headlight is designed to meet the various needs of the physician’s office, hospital environment, and specialist’s office.

Setup and operation
The Green Series Portable Headlight (REF 46070) consists of the Portable Headlight (REF 46000) with Direct Power Source (REF 74170).

The Green Series Portable Headlight is designed to operate off the battery or direct power source. To operate the headlight using the direct power source, follow the instructions and illustrations in the section labeled Direct Plug-In Transformer. Press the on/off switch located on the Direct Plug to operate the headlight.

To adjust the light spot size, turn the knob on the front section of the luminaire. To adjust the rigid headband, simply rotate the adjustment knob located on the back of the headband.

Follow the assembly instructions listed below and the corresponding illustrations.

Direct Plug-In Transformer/Charger
Plug Power cord into the port on the top of the luminaire. Push until firmly in place.
The instrument is now ready for use.
Plug direct power source into a nearby receptacle.

Battery Replacement

Headband Replacement

Cleaning (Recommended monthly)

CAUTION:
- Do not immerse in cleaning solutions.
- Excess solution entering the luminaire assembly could damage internal components. Use caution to ensure cloth is not saturated with solution.
- Do not sterilize the unit.

1. Unplug the unit prior to cleaning.
2. Wipe down the entire luminaire with a cloth slightly dampened with a mild solution of detergent.
3. Do not operate the light until the light is thoroughly dry.
Troubleshooting

<table>
<thead>
<tr>
<th>Trouble Area</th>
<th>Possible Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Light Output</td>
<td>Dead battery or battery not connected properly</td>
<td>Verify that the unit operates on direct power source. If yes, insure that the battery is connected properly, refer to the battery replacement section for instructions on connecting the battery. If the battery is connected properly, recharge or replace battery.</td>
</tr>
<tr>
<td>Low Light Output</td>
<td>Low charge on battery</td>
<td>Verify that the unit operates on direct power source. If yes, recharge or replace battery.</td>
</tr>
</tbody>
</table>

Specifications

**Color Temperature:** 5300K

**Light Intensity:** 40 Lumens

**Working Distance:** 16 Inches

Electrical

<table>
<thead>
<tr>
<th>Ref Model</th>
<th>Input Voltage</th>
<th>Output Voltage</th>
<th>Output Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>46070(R)</td>
<td>120VAC 50-60Hz</td>
<td>5 volts vdc</td>
<td>1300 mA</td>
</tr>
<tr>
<td>46072(R)</td>
<td>230VAC 50-60Hz</td>
<td>5 volts vdc</td>
<td>1300 mA</td>
</tr>
<tr>
<td>46074(R)</td>
<td>230VAC 50-60Hz</td>
<td>5 volts vdc</td>
<td>1300 mA</td>
</tr>
<tr>
<td>46076(R)</td>
<td>240VAC 50-60Hz</td>
<td>5 volts vdc</td>
<td>1300 mA</td>
</tr>
</tbody>
</table>

Environment

**Operating:**

32° F - 104° F (0° C - +40° C)
75% RH Max continuous
500hPa - 1060 Altitude

**Storage/Transport:**

-4° F - 120° F (-20° C - +49° C)
95% RH Max continuous
500hPa - 1060 Altitude

Equipment Classification: Class II, Continuous Operation

IPXØ: Not protected against the ingress of water

Category: Not AP/APG Equipment

Accessory Parts List

<table>
<thead>
<tr>
<th>Model 46070 Portable Headlight</th>
<th>Model 74172 Battery Pack with Charger (European)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 05232-U Soft Case</td>
<td>Model 74174 Battery Pack with Charger (U.K.)</td>
</tr>
<tr>
<td>Model 49642 Soft Terry Cloth Headband, case of 10</td>
<td>Model 74176 Battery Pack with Charger (Australia)</td>
</tr>
<tr>
<td>Model 74170 Battery Pack with Charger (Domestic)</td>
<td>Model 72270 Replacement Battery</td>
</tr>
</tbody>
</table>

Emissions and Immunity Information

**EMC compliance**

Special precautions concerning electromagnetic compatibility (EMC) must be taken for all medical electrical equipment. This device complies with IEC EN 60601-1-1.

- All medical electrical equipment must be installed and put into service in accordance with the EMC information provided in this document and **Green Series Portable Headlight System Directions for Use**.
- Portable and mobile RF communications equipment can affect the behavior of medical electrical equipment.

The Green Series Portable Headlight System complies with all applicable and required standards for electromagnetic interference.

- It does not normally affect nearby equipment and devices.
- It is not normally affected by nearby equipment and devices.
- It is not safe to operate the **Green Series Portable Headlight System** in the presence of high-frequency surgical equipment.


Approvals

The CE mark on this product indicates that it has been tested to and conforms with the provisions noted within the 93/42/EEC Medical Device Directive.

- [CE](http://www.welchallyn.com/apps/products/product_category.jsp?catcode=LTG)
- [Regulatory Affairs Representative](http://www.welchallyn.com/apps/products/product_category.jsp?catcode=LTG)
- [Navan Business Park Dublin Road Navan, County Meath, Republic of Ireland](http://www.welchallyn.com/apps/products/product_category.jsp?catcode=LTG)
- [Complies with EMC Framework of Australia](http://www.welchallyn.com/apps/products/product_category.jsp?catcode=LTG)

**Product Disposal** - Do not dispose of this product as unsorted municipal waste. Prepare this product for reuse or separate collection as specified by Directive 2002/96/EC of the European Parliament and the Council of the European Union on Waste Electronic and Electrical Equipment (WEEE). If this product is contaminated, this directive does not apply.

**Warranty** - One year.

Service Information

For Technical Support or to obtain information about any Welch Allyn product, contact Welch Allyn Technical Support:

- [www.welchallyn.com/support](http://www.welchallyn.com/support) or visit [www.welchallyn.com/about/company/locations.htm](http://www.welchallyn.com/about/company/locations.htm)

This manual applies to:

- [901069 Headlight](http://www.welchallyn.com/apps/products/product_category.jsp?catcode=LTG)