

## Green Series Portable Headlight System

# 46070, 46072, 46074, 46076  
46070R, 46072R, 46074R, 46076R  
Directions for use



### Symbol descriptions



Consult Directions for use



Warning



Caution



Class II Equipment



INTENSE LIGHT



Lamp On



Lamp Off



Recycle the product separate from other disposables, see "Product Disposal"

IPX0

Not protected against the ingress of water.

### WARNING:

- Green Series Portable Headlight is not suitable for use in the presence of a flammable anesthetic mixture with air or oxygen or nitrous oxide. An explosion may result.
- INTENSE LIGHT: Lamp is bright. Do not stare at the lamp when in use. May be harmful to eyes.

### CAUTION:

- Read Operating Manual for Warnings, Cautions, and Instructions for Use.
- No modification of this equipment is allowed.
- Do not block access to the wall socket. Ensure that transformer can be unplugged from the AC power source.
- Use only Green Series Portable Headlight Power Source/ Battery Charger and rechargeable battery pack supplied by Welch Allyn.
- There are no user-serviceable parts inside the device except the rechargeable batteries and headband. Contact the Authorized Service Center listed at [www.welchallyn.com/support](http://www.welchallyn.com/support) for further assistance.

## 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.

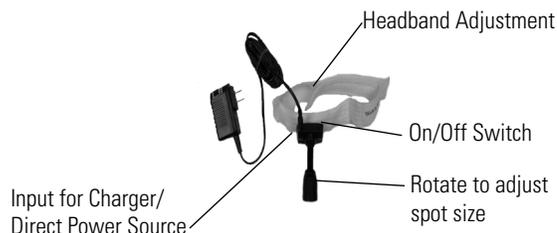
## Setup and operation

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.

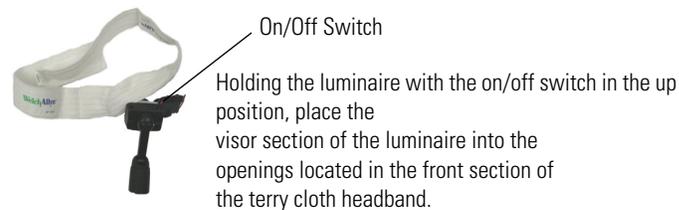


### Battery Replacement



Drop the battery pack into the luminaire visor and plug into the connector

### Headband Replacement



Holding the luminaire with the on/off switch in the up position, place the visor section of the luminaire into the openings located in the front section of the terry cloth headband.

## 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

Trouble Area	Possible Cause	Corrective Action
No Light Output	Dead battery or battery not connected properly	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
Low Light Output	Low charge on battery	Verify that the unit operates on direct power source. If yes, recharge or replace battery

## Specifications

**Color Temperature:** 5300K

**Light Intensity:** 40 Lumens

**Working Distance:** 16 Inches

## Electrical

Ref Model	Input Voltage	Output Voltage	Output Current
46070(R)	120VAC 50-60Hz	5 volts vdc	1300 mA
46072(R)	230VAC 50-60Hz	5 volts vdc	1300 mA
46074(R)	230VAC 50-60Hz	5 volts vdc	1300 mA
46076(R)	240VAC 50-60Hz	5 volts vdc	1300 mA

## 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

IPX0: Not protected against the ingress of water

Category: Not AP/APG Equipment

## Accessory Parts List

Model 46070 Portable Headlight	Model 74172 Battery Pack with Charger (European)
Model 05232-U Soft Case	Model 74174 Battery Pack with Charger (U. K.)
Model 49642 Soft Terry Cloth Headband, case of 10	Model 74176 Battery Pack with Charger (Australia)
Model 74170 Battery Pack with Charger (Domestic)	Model 72270 Replacement Battery

## 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.

For information about electromagnetic compatibility (EMC), see the Welch Allyn website: [http://www.welchallyn.com/apps/products/product\\_category.jsp?catcode=LTG](http://www.welchallyn.com/apps/products/product_category.jsp?catcode=LTG)

## 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.



Regulatory Affairs Representative  
Welch Allyn Limited  
Navan Business Park  
Dublin Road  
Navan, County Meath, Republic of Ireland



Complies with EMC Framework of Australia



**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:

**REF** 901069 Headlight

**WelchAllyn**®

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