

# PORTABLE LINK LIGHTS

Linklite<sup>®</sup> LED

LL-LED-110V • LL-LED-240V



# OPERATING MANUAL

## INTRODUCTION

Thank you for purchasing a Linklite portable lighting system.

This manual provides information and procedures to safely operate and maintain Linklite portable lighting equipment. For your own safety and protection from physical injury, carefully read, understand, and observe the safety instructions described in this manual.

*Every effort has been made to make sure that the information and instructions contained in this manual were accurate and current at the time of publication. Linklite Systems Ltd reserves the right to change, alter or otherwise improve the product or any portion of this information without prior notice.*

**DO NOT MODIFY** or use this equipment for any application other than that for which it was designed.

Linklite Systems Ltd recommends that a trained and licensed professional perform all electrical wiring and testing functions. Any wiring procedures should be performed in compliance with applicable national, state or local regulations and guidelines.



Linklite is designed and manufactured in the United Kingdom using both domestic and globally sourced parts.

Additional copies of this manual may be requested from [sales@linklite.co.uk](mailto:sales@linklite.co.uk) or downloaded from [www.linklite.co.uk/downloads](http://www.linklite.co.uk/downloads)

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### UK HEAD OFFICE

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For technical QUESTIONS please contact us using one of the above methods.

To ORDER SPARE PARTS or ACCESSORIES please contact the dealer from which you purchased the unit or visit our website.

## SAFETY NOTES



This is the safety alert symbol. It is used throughout this manual to alert you to special instructions about a particular service or operation that may be hazardous if performed incorrectly or carelessly.

Obey all safety messages that follow this symbol to avoid potential personal injury or property damage.

## OPERATING SAFETY

Before using the Linklite portable lighting system be sure to read this manual thoroughly. The operator is responsible for proper and safe use of the equipment. We strongly recommend that the operator read this manual and thoroughly understand all instructions before using this equipment.

This equipment was designed for specific applications; **DO NOT** modify or use this equipment for any application other than that for which it was designed.

Equipment operated improperly or by untrained personnel can be dangerous. The following safety measures should be practiced at all times:

- **DO NOT** stare at this operating light source.
- **DO NOT** connect a Linklite in need of repair to a power source.
- **DO NOT** operate a Linklite if the protective lens casing is cracked or damaged.
- **DO NOT** connect more than 30 Linklite LED luminaires per 1,000 watts of power supplied.
- **DO NOT** use a power cable if the insulation is cut or worn through.
- **DO NOT** connect fluorescent lamps to this luminaire.
- **DO NOT** permit unqualified personnel to carry out maintenance or repairs to this product.
  
- **DO** ensure the electrical rating of any cables used are suitable for use with this product.
- **DO** position and operate the light on a firm, level surface when using the telescopic mast and basket. Sandbags or similar should be used to weight the basket.
- **DO** check that there are no underground cables below the surface using a radio detection CAT scanner before using the optional ground spike accessory.
- **DO** ensure that the area above the unit is open and clear of overhead wires and obstructions. The optional telescopic mast extends up to 2.8 m (9 ft).

## UNIT SERIAL NUMBER LOCATION



The serial number for your Linklite is located here.

## SPECIFICATIONS

<b>LINKLITE MODEL NO.</b>	<b>LL-LED-110V</b>	<b>LL-LED-240V</b>
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### Lighting

Lighting type	LED	LED
Lamp Lumens	4,000	4,000
Lumens per watt	130	130

### Electrical

Supply Voltage	110V	240V
Wattage	30W	30W
Operating frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Power connectors	IEC 60309 pin and sleeve 16A 110V (yellow) IP44	IEC 60309 pin and sleeve 16A 200-250V (blue) IP44

### Dimensions

Luminaire	546 mm x 135 mm x 273 mm (21.5 in x 5.5 in x 11 in)	546 mm x 135 mm x 273 mm (21.5 in x 5.5 in x 11 in)
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### Weight

Luminaire (with handle)	3.3 kg (~7 lb. 4 oz.)	3.3 kg (~7 lb. 4 oz.)
Luminaire (without handle)	2.89 kg (~6 lb. 6 oz.)	2.89 kg (~6 lb. 6 oz.)

### Conformity

The product has been tested and meets the following standards and specifications:

IEC 60598-2-4:1997 / EN 60598-2-4:1998 used with  
IEC60598-1:2014 / EN 60598-1:2015 and  
IEC/EN 62031:2008 + A1:2013  
AS/NZS 60598.1:2013  
AS/NZS 60598.2.4:2005 +A1





## EC DECLARATION OF CONFORMITY

LL-2018-07-02

We

**Linklite Systems Ltd**  
29 Waterloo Road  
Wolverhampton WV1 4DJ  
United Kingdom



declare under our sole responsibility that the product

Name	<b>LINKLITE LED</b>
Description	<b>Portable Link Light</b>
Model Numbers	<b>LL-LED-110V LL-LED-240V-UK LL-LED-240V-AU</b>

is in conformity with the provisions of the following EU directives and regulations, including all amendments, and with national legislation implementing these directives:

- LVD** Low Voltage Directive **2014/35/EU**  
**EMC** Electro Magnetic Compatibility Directive **2014/30/EU**  
**ERP** Energy Related Products Directive **2009/125/EC**  
**RoHS** Restriction of Hazardous Substances **2011/65/EU**

**The following harmonised standards have been applied:**

BS EN 60598-1:2015	Luminaires. General requirements and tests
BS EN 60598-2-4:1998	Particular requirements. Portable general purpose luminaires
BS EN 60598-2-1:1989	Particular requirements. Fixed general purpose luminaires
BS EN 62031:2008 + A1:2013	LED modules for general lighting. Safety specifications
BS EN 55015:2013 + A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
BS EN 61000-3-2:2014	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions
BS EN 610003-3-3:2013	Electromagnetic compatibility (EMC). Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems
BS EN 61547:2009	Equipment for general lighting purposes. EMC immunity requirements

Authorised signatory:

Name: John Terence Hitchen  
 Position: Director  
 Date: 02/07/2018

## POWER SUPPLY

Linklites require a power supply either generated or transformed. Your Linklite is fitted with pin and sleeve connectors that conform to IEC 60309 standards. Your power requirements will be either a 110V or 240V supply, determined by the colour of the connectors.



<b>YELLOW</b> <b>110V</b>	<b>BLUE</b> <b>240V</b>
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**25 Linklites** may be connected together from a single power source using a standard 14 metre 2.55mm<sup>2</sup> 16 Amp extension lead.

**18 Linklites** may be connected together if using a 14 metre 1.55mm<sup>2</sup> 16 Amp extension lead.

## ELECTRICAL SAFETY

The unit **MUST** be equipped with an appropriate 3-conductor link cable utilising outdoor rated (IP44) pin and sleeve quick release plugs and sockets.

### **WARNING**

*The 3-pin earthing type cord set **MUST** be IP rated for outdoor use to allow connection of the unit to an appropriate earthed supply system.*



Consult a suitably qualified person if the grounding instructions are not completely understood, or if in doubt as to whether proper grounding exists.

## LINKLITE MAINTENANCE

Linklite LED luminaires are fitted with two replaceable 15 watt LED tubes. Only LED tubes marked for use with Linklite LED luminaires should be used in this product. The LED tubes may be used in both 110V and 240V models.

### **WARNING**

*Do not attempt to connect fluorescent tubes to this product.*

After extensive use it is possible that one or both of the LED tubes may need to be replaced. Please contact your dealer or visit our website to order genuine replacement parts.

## REPLACING THE LED TUBES

To replace one or both LED tubes you will require:

- 5MM (5/32 inch) Allen wrench or hexagonal drill bit
- Phillips-head screwdriver or drill bit

### **WARNING**

*Disconnect the unit from the power supply before commencing this procedure.*

- 1.** Remove 6 x hexagonal cap screws, 2 of which are located beneath the support arm (handle).
- 2.** Slide the metal chassis out from inside the plastic lens casing. The retaining flange and inner gasket remain attached to the plastic casing.
- 3.** On the underside of the metal chassis away from the electrical connections, release the screw that secures the tube end cap by 1 turn. Slide this plastic end cap down to release the end of the LED tube. Repeat as necessary for the second tube.
- 4.** Turn the metal chassis over and lift the tube out from the end cap then gently pull to release the tube from the lamp holder socket. It may be necessary to move the tube from side to side to release the 4 connecting pins from the socket. Repeat for the second tube if required.



 **WARNING**

*Check that your replacement LED tube is compatible with this product.*

**Part Number: LL-LED-LMP / Model: GL-DG-2G11/G13-ZB15W**

5. Take the replacement LED tube and position it with the label facing downwards. Offer the 4-pin connectors to the lamp holder and push the tube into the holder until the spring clip clicks into position.
6. Slide the plastic end cap over the end of the LED tube and then turn the chassis over to tighten the release screw by 1 turn ensuring it is tight enough to hold the tube in position.

 **WARNING**

*Before re-inserting the chassis into the outer lens casing, check the condition of both flange gaskets. Any damage to the gaskets could result in water leaking into the unit.*

7. Slide the metal chassis carefully into the lens casing until it slots into position and the socket flange gasket is flush to the body of the unit.
8. Refit and tighten the 6 x hexagonal screws that were removed in Step 1.
9. Reconnect the Linklite LED to a suitable power supply and test.












This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE). Do not dispose with normal waste. Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.



## ACCESSORIES & SPARE PARTS

Various mounting accessories and spare parts are available for your Linklite LED luminaire. For more information please contact your dealer or visit our website at [www.linklite.co.uk](http://www.linklite.co.uk)

 <p><b>Aluminium Mast</b> LL-MST-AL</p>	 <p><b>Mast Basket</b> LL-BSK</p>	 <p><b>Ground Spike</b> Part #: LL-GS</p>
 <p><b>Horizontal Wall Brackets / Mount</b> LL-BRK-TN1 / LL-BRK-TN2</p>	 <p><b>Vertical Hook Bracket</b> LL-BRK-TN1 / LL-BRK-TN2</p>	 <p><b>110V or 240V Power Cable</b> LL-CAB45-110V / LL-CAB45-240V</p>
 <p><b>15W LED Tube</b> LL-LED-LMP</p>	 <p><b>Lens Case Assembly</b> LL-LENS</p>	 <p><b>Mast Bracket / Handle</b> LL-HND</p>

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