



# PRO LINK

LED Linkable Flood Lighting System

## Operator's Manual



**This manual covers the PRO-LINK with the following product codes:**  
PLL15LB | PLL15LB/TYPE-F

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# IMPORTANT INFORMATION ABOUT YOUR PRO-LINK

Use this page to record important information about your PRO-LINK.

<b>UNIT PRODUCT REFERENCE</b>	
<b>UNIT SERIAL NUMBER</b>	

This information can be found on your PRO-LINK's product label on the top of the light head.

You will be required to supply the products serial number when contacting Ritelite (Systems) Ltd or one of Ritelite's approved dealers about parts and service.

## IMPORTANT SAFETY INSTRUCTIONS

**Some versions of this product are fitted with a polarized plug (one pin is wider than the other) as a feature to reduce the risk of electric shock. This plug type will fit in a polarized outlet only in the correct orientation. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not alter the plug. This product must be earthed.**

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## Section 1: INTRODUCTION & APPLICATIONS FOR USE

The PRO-LINK is designed as a simple to use but powerful portable LED lighting system. It should only be used as a device to provide light as designed and for no other purpose.

All users must read, understand and obey these safety rules and operating instructions before operating the PRO-LINK lighting system. Only trained operators or competent personnel should operate the PRO-LINK.

This manual should stay with the PRO-LINK at all times.

### APPLICATIONS FOR USE

The PRO-LINK Beam Control LED linkable flood light is designed for use in the following applications only. It should not be used for any other purpose. If in any doubt about applications for use please contact either Ritelite (Systems) Ltd or Ritelite (Systems) Ltd's distributor for more information.

- Track lighting



**Failure to follow the instructions and safety rules in this manual may result in death or serious injury.**

## Section 2: SAFETY RULES

It is important that every user understands and observes the safety rules before setting up or using the PRO-LINK lighting system.

The Manufacturer, Ritelite (Systems) Ltd cannot anticipate every possible circumstance that might involve a hazard. The warnings in this manual and on labels affixed to the PRO-LINK will therefore not cover every eventuality. If using a procedure or operating method not specifically recommended by the manufacturer then the user must verify that it is safe for others and that it does not make the equipment unsafe.

Throughout this manual and on labels on the PRO-LINK, DANGER, WARNING and CAUTION blocks are used to alert personnel to special instructions about a particular operation that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Their definitions are as follows:

 <b>DANGER</b>	 <b>WARNING</b>	 <b>CAUTION</b>
Indicates a hazardous situation which, if not avoided, will result in death or serious injury.	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

These safety alerts cannot eliminate the hazards that they indicate. Common sense and strict compliance with the instructions within this manual are essential to preventing accidents.

## **WARNING**

**When using outdoor use portable luminaires, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following:**

- a) **Use only three-wire outdoor extension cables that have three-prong earthing plugs and earthing receptacles that accept the appliance's plug.**
- b) **Residual Current Breaker with Over Current (RCBO) protection is to be provided on the circuit (s) or outlet (s) to be used for the wet location of the portable luminaire. Receptacles are available having built-in RCD / RCBO protection and are best used for this measure of safety.**
- c) **Use only with a relevant IP rated extension cable for outdoor use.**

## **GENERAL SAFETY RULES & POTENTIAL HAZARDS WHEN SETTING UP AND USING THE PRO-LINK LIGHTING SYSTEM**

### **FALL HAZARDS**

- Do not stand on any part of the mast or light head brackets.
- Do not cling to or pull on the mast.
- Do not climb on or use any part of the PRO-LINK as a platform or step.

### **TIP OVER HAZARDS IF USING A MAST OR ANY DEVICE TO SUPPORT THE PRO-LINK AT HEIGHT**

- Do not raise the mast until the PRO-LINK is positioned level on a firm, flat, horizontal surface. Ballast should always be added to the ballast base when used.
- Do not place the PRO-LINK on a smooth low friction surface even if firm and level. e.g. snow/ice. The unit could be prone to sliding sideways in these circumstances.
- Do not set up the PRO-LINK in windy conditions where wind speed and gusts could exceed the wind rating of the product.
- Check area where the product has been set up on a regular basis to ensure stability has not been compromised through changing conditions, e.g. through wind or water logged ground.
- See operating manual for relevant supporting system before using with the PRO-LINK for safe deployment.
- Prior to setting up check the area for any possible hazardous conditions.
- Do not place ladders or scaffolding against any part of the PRO-LINK.

- Do not use the PRO-LINK on a moving or mobile surface or vehicle.
- Avoid debris and uneven surfaces.
- Do not use the PRO-LINK for any purpose other than that for which it is designed.

## **ELECTROCUTION HAZARDS**

- Maintain safe distances away from electrical power lines in accordance with applicable governmental regulations.
- Keep away from the PRO-LINK if it contacts energized power lines or rails. No-one must touch or operate the PRO-LINK until power lines or rails are powered off.
- When setting a PRO-LINK up in an area which does have electrical power lines in the vicinity allow enough distance for mast movement and electrical line sway or sag and be aware of strong or gusty winds which might cause the PRO-LINK to make contact.
- Ensure product is not being set up in a potentially explosive environment – the PRO-LINK is not an ATEX approved product.
- Ensure the product will be powered by an RCD / RCBO or suitably protected supply to prevent risk to operators or damage to the PRO-LINK.
- The PRO-LINK is not designed to be submersed under water.

## **BODILY INJURY HAZARDS**

- It is recommended that the user wears gloves whilst operating or setting up the PRO-LINK.
- In slippery or uneven terrain it is recommended that two people carry separate parts of the PRO-LINK.
- The PRO-LINK is designed to be simple to setup and operate by one person however there may be situations where it is recommended that two people setup the product.
- Do not carry the PRO-LINK sections for long distances in extreme temperatures.
- Do not switch on until the PRO-LINK is setup correctly - to avoid close eye contact with the light.
- Do not stare directly into the lights to prevent damage to eyes.
- Set the PRO-LINK up so light spill cannot form a nuisance or danger to others, especially those using machinery.
- Where possible the PRO-LINK should be set up away from personnel or moving vehicles.
- Do not grasp or move the light heads after use until they have cooled down for at least 10 minutes.

## **CRUSHING HAZARDS**

- Ensure the PRO-LINK is set up on a firm and horizontal flat surface.
- Do not raise the mast until the PRO-LINK is positioned level on a firm horizontal flat surface with all support legs correctly deployed and locked.
- Do not stand under or allow personnel under the PRO-LINK when the mast is raised or lowered.
- Keep hands and fingers away from any potential pinch points.

## **COLLISION HAZARDS**

- Ensure the area around the product and above the product is clear of any possible obstructions before starting to set the PRO-LINK up.
- Use common sense and planning when transporting the PRO-LINK on any incline or slope.
- On slippery or uneven terrain it is recommended that two people setup the product at all times.
- Make sure when loading the PRO-LINK into a vehicle or trolley that it is securely mounted / retained so it cannot fall off or move in such a way that it could harm other items or personnel.

## **DAMAGED MACHINE HAZARDS**

- Do not use a damaged PRO-LINK or a one that is not working properly.
- Conduct a thorough pre-operation inspection prior to each use.
- Be sure that all labels are in place and legible.
- Do not use if there are any visible damaged parts. Contact your dealer to arrange for spares or repair options.
- Do not use any type of abrasive or strong chemicals to clean the PRO-LINK.
- Do not attempt to defeat / modify any of the locks or catches.

## **IMPROPER USE HAZARD**

- Never leave a PRO-LINK unattended with the mast raised unless a full risk assessment for the application they are being used for has been undertaken by a competent person. Unauthorized personnel may attempt to operate the PRO-LINK without proper instruction potentially causing injury to themselves or others.
- The device is to be used only for its prescribed purpose. Any use other than that mentioned is considered to be a case of misuse.
- The user/operator, and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.
- It is imperative to observe the local accident prevention regulations.
- The same applies for the general rules of occupational health and safety.
- The manufacturer is not liable for indirect consequential damage and financial loss.
- The manufacturer shall not be liable for any changes made to the device nor for any damage resulting from such changes.
- The PRO-LINK is not designed to be setup / used on a live public highway.



## **Section 3: TECHNICAL SPECIFICATIONS**

### **WEIGHTS & DIMENSIONS**

Weight (Single light head): 1.5Kg

Dimensions: 190mm (L) x 120mm (W) x 55mm (H)

IP rating: IP65

### **ELECTRICAL**

Input 90-240V AC 50Hz

Unity power factor 1.0

6000K daylight white

Max 3,200 lumens per PRO-LINK

Power requirement: 15W

Mains input via 110V/240V plug as per customer requirements.

## Section 4: SETTING UP THE PRO-LINK

Inspect the proposed area for use.

An inspection of the proposed area in which to set up the PRO-LINK is necessary to ensure it is suitable for safe operation. This inspection should be performed by the operator prior to moving the PRO-LINK into position.

The area should be firm, horizontal, level and free from obstructions and potential hazards.

### **WARNING**

**Operators should be aware of the following possible hazardous situations. The operator should also remember these hazards, watch and avoid them while moving, setting up and operating the PRO-LINK.**

- **Uneven terrain, drop-offs or holes**
- **Bumps and floor obstructions**
- **Debris either on proposed site or on route to site**
- **Overhead obstructions and high voltage conductors**
- **Inadequate surface support to withstand the PRO-LINK weight**
- **Wind and weather conditions – ice, snow, gusty or strong winds being particularly hazardous to the safe use of the PRO-LINK at height**
- **All other possible unsafe conditions**

Arrange the angle of the light heads as far as possible to ensure that the light heads are not likely to dazzle people in the near vicinity.

Set the PRO-LINK up in such a way that it cannot obstruct walkways or areas that form emergency exit routes.

### **WARNING**

**The PRO-LINK can be used indoors or outdoors. Note recommended maximum wind speed on any supporting system.**

Wherever there is any doubt over the wind speed/conditions the PRO-LINK should be lowered for safety.

If using the PRO-LINK for extended periods, a daily check of the unit is required to prevent against misuse or tampering whilst unattended, and to ensure that the surface is still firm, level and stability is not compromised in any way e.g. waterlogged ground.

## Section 5: OPERATING INSTRUCTIONS

Do not use the PRO-LINK for any purpose other than that for which it is designed – as a mobile floodlighting system.

If more than one operator is expected to set up or use a PRO-LINK lighting system at different times, each operator is required to follow all safety rules and instructions in the operators manual. That means every new operator should perform a pre-operation inspection and function tests before using the PRO-LINK.

### 5a) PRE-OPERATION INSPECTION

**Always perform a pre-operation inspection.**

The pre-operation inspection is a visual inspection performed by the operator prior to each use of the PRO-LINK. This inspection is designed to discover if anything is obviously wrong with a unit before the operator tests it prior to use.

A damaged or modified PRO-LINK must never be used. If any damage is discovered the PRO-LINK must be removed from service until it has been repaired.

Maintenance and repairs can be executed only by authorised personnel. If any person maintaining or repairing the device is in any doubt, they should contact their dealer or Ritelite (Systems) Ltd.

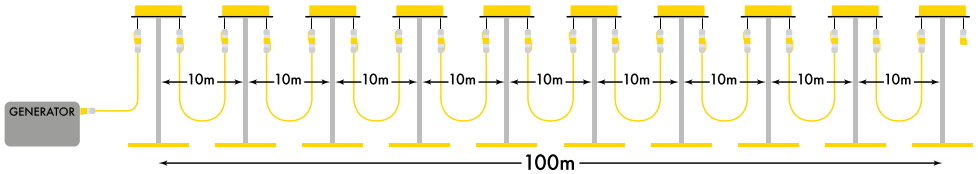
### PRE-OPERATION INSPECTION

Check the following parts or areas for any signs of damage or missing parts.

- Cables (for kinks, frays, abrasions, bare conductors showing)
- Plugs and sockets
- Handles / knobs / adjustment points
- Nuts, bolts and other fasteners
  
- Check to make sure that there are not dents, weld cracks in the product or signs of significant rust / corrosion.
- Make sure the light head lenses are free from cracks or areas of damage where water would enter.
- Make sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.

## 5b) UNIT STABILITY DEPLOYMENT PROCESS

It is recommended that for track lighting units are setup spaced 10 metres apart. The power supply is connected at one end, the units can then be linked together. It is recommended to use 2.5mm<sup>2</sup> cable in 14m cable lengths. The limit of how many lights can be connected together will depend on the power source used.



Typical installation based on a 100m x 4m track width with 3m masts spaced 10m apart

1. Choose the starting point and place the ballast base on ground. Add suitable ballast to ensure the unit is stable and will not fall over in wind.
2. Slot the PRO-LINK mast into the ballast base with fixed spigot facing downwards.
3. Place the PRO-LINK on top of the mast and connect the mains cable to the input plug. The light head should be facing downwards as the lens is designed to project the light out horizontally.
4. Turn the power source on. If linking multiple units connect the linking cable for the next unit to the output socket.
5. Raise the mast to the required height (maximum 3 metres). If the light beam does not cover the area in front of the unit sufficiently lower the mast, readjust and raise the mast back up.
5. Setup the next unit approximately 10 metres down the track from the previous unit, following points 1 to 5. Set the light head at a similar angle to the previous one. Continue setting up by linking additional units as required.

**NOTE: DO NOT EXCEED THE MAXIMUM OUTPUT OF THE POWER SOURCE.**

## 5c) BREAKING DOWN OPERATION

Breaking down the PRO-LINK to put it away is a reverse of the setting up operation.

1. Starting at the end furthest from the power source, lower the first mast. Lift the light head from the unit and disconnect the power.
2. Remove the mast from the ballast base. Remove the ballast from the base and take this up.
3. Lower the next mast. Disconnect the 14m linking cable from the end unit and coil up. Lower the mast, and disconnect the linking power cable. Remove the mast and ballast base.
4. Continue working along packing away each unit in turn and coiling up the cables.
5. Once the final unit is packed away turn off the power source.

## 5d) PACKING AWAY & TRANSPORT



**In slippery or uneven terrain it is recommended that two people manoeuvre the product at all times.**

**Take extra care handling light heads when packing the PRO-LINK away for transport in case housings are still hot.**







## TRANSPORT AND LIFTING INSTRUCTIONS

- The transport vehicle/trolley must be parked on a level surface.
- The transport vehicle/trolley must be secured to prevent rolling while the PRO-LINK components are being loaded.
- Be sure the vehicle/trolley capacity, loading surfaces/storage area and chains or straps are sufficient to withstand the PRO-LINK weight.
- The PRO-LINK must be secured to the transport vehicles with chains or straps of ample load capacity.

## Section 6: MAINTENANCE

- It is recommended that all PRO-LINK products are PAT tested at least on an annual basis. Owner / manager to assess and decide frequency of PAT testing required depending on regularity or type of use.
- It is recommended that a regular inspection of the complete product is carried out to look for signs of wear and tear and identify possible maintenance required. This should be done by a competent person on at least an annual basis depending on severity and types of use.
- It is recommended that gloves are worn during operation/setting up, breaking down, cleaning and maintenance to protect the user.
- All fasteners, locking mechanisms and latches to be checked for correct operation prior to use.
- Any damaged parts that could pose a risk to the user/personnel must be replaced.
- All sliding and rotating mechanisms must be kept clean and lubricated where applicable.
- The PRO-LINK must be taken out of service if, during use, or repair and maintenance serious damage is discovered.
- The PRO-LINK can only be put back into use after it has been properly repaired and examined and signed off by authorised personnel.
- The use of spares other than original parts from Ritelite (Systems) Ltd will invalidate any warranty.

## Section 7: ACCESSORIES

PRODUCT CODE	DESCRIPTION	PREVIEW
LLM3M	Aluminium extending 3m mast	
LLBB	Stackable ballast base	
LLGS	Ground spike for mast	
SE/110EL142	110V 14m extension lead	
SE/220EL142	240V 14m extension lead	
PLL30LB-DHA	Twin light head adaptor	

## ADVICE ON DISPOSAL OF RITELITE PRODUCTS AT END OF LIFE

For our latest advice on the disposal of Ritelite products at end of life please visit the link below.

<https://www.ritelite.co.uk/disposal-advice>

## DISCLAIMER OF WARRANTY

For details about the warranty offered on Ritelite products please visit the link below.

<https://www.ritelite.co.uk/warranty-information>

The contents of this manual are subject to change without prior notice.

We take no responsibility for errors or admissions.



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