

KFIRE-LITE

Rechargeable, Portable, Rechargeable Flood Light

Operator's Manual



This manual covers the following KFire-LITE product code:

LFBL/2KIT/EU

www.ritelite.co.uk



IMPORTANT INFORMATION ABOUT YOUR KFire-LITE

Use this area to record important information about your KFire-LITE kit.

UNIT SERIAL NUMBERS

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

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Section 1: INTRODUCTION & APPLICATIONS FOR USE

The KFire-LITE 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 KFire-LITE lighting system. Only trained operators or competent personnel should operate the KFire-LITE.

WARNING

Failure to follow the instructions and safety rules in this manual may result in serious injury. It is important that every user understands and observes the safety rules before setting up or using the KFire-LITE lighting system.

Section 2: GENERAL SAFETY RULES

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) **Charging must only take place within a dry, indoor environment.**
- b) **Ensure all connectors are pushed fully home and no damage to connecting cables is visible.**
- c) **Ensure that the battery is fully disconnected for transport and storage.**

FALL HAZARDS

- Do not stand on any part of the mast or light heads.
- Do not cling to or pull on the mast.
- Do not climb on or use any part of the KFire-LITE as a platform or step.

TIP OVER HAZARDS

- Do not raise the mast until the KFire-LITE is positioned level on a firm, flat, horizontal surface with all three support legs correctly deployed and locked.
- Do not place the KFire-LITE 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 KFire-LITE in windy conditions where wind speed and gusts could exceed 25mph.
- 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.
- Ensure the legs are locked in position before attempting to raise the mast.
- Do not release the leg clamp when the mast is raised or loaded with the light heads.
- Prior to setting up check the area for any possible hazardous conditions.
- Do not use blocks to level the KFire-LITE.
- Do not move the KFire-LITE with a raised load.
- Do not place ladders or scaffolding against any part of the KFire-LITE.
- Do not use the KFire-LITE on a moving or mobile surface or vehicle.
- Do not use the KFire-LITE for any purpose other than that for which it is designed.
- The KFire-LITE is NOT a lifting device for anything other than the KFire-LITE light heads.

ELECTROCUTION HAZARDS

- Maintain safe distances away from electrical power lines in accordance with applicable governmental regulations.
- Keep away from the KFire-LITE if it contacts energized power lines. No-one must touch or operate the KFire-LITE until power lines are shut off.
- Ensure product is not being set up in a potentially explosive environment – the KFire-LITE is not an ATEX approved product.
- The KFire-LITE is not designed to be submersed under water.

BODILY INJURY HAZARDS

- The KFire-LITE 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 KFire-LITE sections for long distances in extreme temperatures.
- Do not stare directly into the lights to prevent damage to eyes.
- Set the KFire-LITE up so light spill cannot form a nuisance or danger to others, especially neighbouring properties.

CRUSHING HAZARDS

- Ensure the KFire-LITE is set up on a firm and horizontal flat surface.
- Do not raise the mast until the KFire-LITE is positioned level on a firm horizontal flat surface with all three support legs correctly deployed and locked.
- Do not allow personnel under the KFire-LITE when the mast is raised or lowered.
- Keep hands and fingers away from any potential pinch points.
- Never move the KFire-LITE with the mast partly or fully raised.

COLLISION HAZARDS

- Ensure the area around the product and above the product is clear of any possible obstructions before starting to set the KFire-LITE up.
- Use common sense and planning when transporting the KFire-LITE on any incline or slope.
- Make sure when loading the KFire-LITE 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.

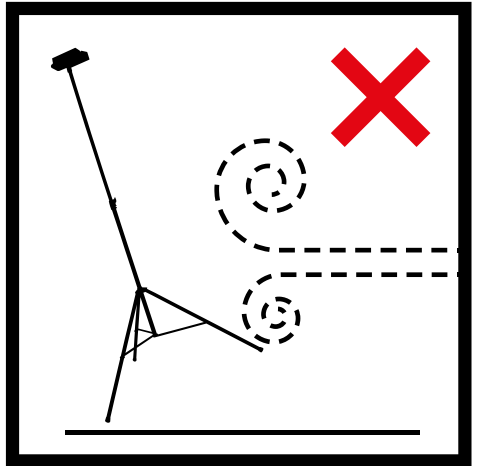
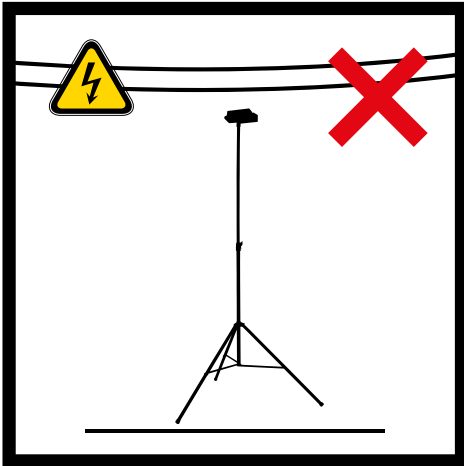
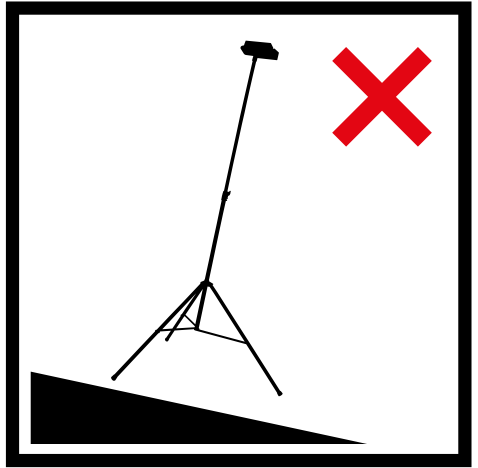
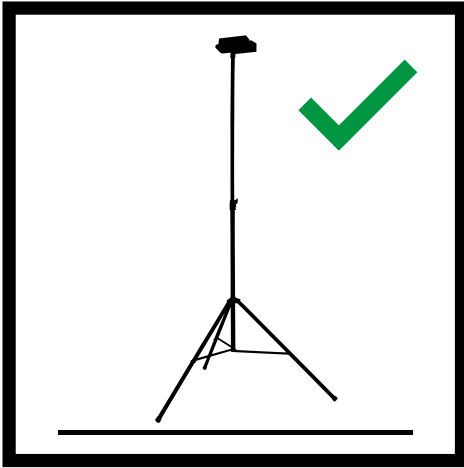
DAMAGED PRODUCT HAZARDS

- Do not use a damaged KFire-LITE or one that is not working properly.
- Do not use a KFire-LITE with a damaged tripod or battery.
- 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 KFire-LITE.
- Do not attempt to defeat / modify any of the locks or catches.

IMPROPER USE HAZARD

- Never leave a KFire-LITE unattended with the tripod 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 KFire-LITE without proper instruction potentially causing injury to themselves or others.
- Do not place the KFire-LITE 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.
- The KFire-LITE must only be operated in a vertical position from a horizontal base.
- 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 KFire-LITE is not designed to be setup / used on a live public highway.



Section 3: TECHNICAL SPECIFICATIONS

KFIRE-LITE WEIGHTS / DIMENSIONS	
PRODUCT CODE	LFBL/2KIT/EU
TOTAL SYSTEM WEIGHT	10.65Kg (Light head, battery and tripod)
LIGHT HEAD	
WEIGHT (Including battery)	4.4Kg
DIMENSIONS (W x H x D)	300mm x 250mm x 100mm
TRIPOD	
WEIGHT	6.25Kg
CLOSED DIMENSIONS	1540mm x ø140mm
OPEN DIMENSIONS	3000mm x ø1950mm

ELECTRICAL



Charger - Input 100-240V 1A Max AC 50/60Hz 45W
 Mains input via 110V/240V plug/cable as per customer/country specific requirements.
 Check with Ritelite (Systems) Ltd for your specific requirements.



Battery – 7S Lithium Ion 7.8AH nominally 25.9V



Light Head – 80W



Protection Class: IP65



LED light colour temperature 6500K daylight white

Section 4: SETTING UP THE KFire-LITE

Inspect the proposed area for use.

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

- **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 KFire-LITE weight**
- **Wind and weather conditions – ice, snow, gusty or strong winds being particularly hazardous to the safe use of the KFire-LITE**
- **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 KFire-LITE up in such a way that it cannot obstruct walkways or areas that form emergency exit routes.

WARNING

The KFire-LITE can be used indoors or outdoors. Note recommended maximum wind speed of 25mph.

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

Maximum wind speed at 100% height - 25mph

If using the KFire-LITE 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.

OPERATING INSTRUCTIONS

Do not use the KFire-LITE 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 KFire-LITE 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 KFire-LITE.

4a) 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 KFire-LITE. This inspection is designed to discover if anything is obviously wrong with a unit before the operator puts it into use.

A damaged or modified KFire-LITE must never be used. If any damage is discovered the KFire-LITE 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.

- Leg locking clamp
- Cables (for kinks, frays, abrasions, bare conductors showing)
- Plugs and sockets
- Legs and feet
- Tripod mast column and associated handles / knobs / adjustment points
- Nuts, bolts and other fasteners
- Check to make sure that there are no 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 could enter.
- Make sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.

Check to make sure there are no dents or cracks or areas of damage to the lithium battery.

4b) SETUP OPERATION

SETUP VIDEO & RESOURCES



1. Plan the suitable location(s) for the light(s) to be setup to maximise the spread of light for the task. Remove the tripod from its storage bag.



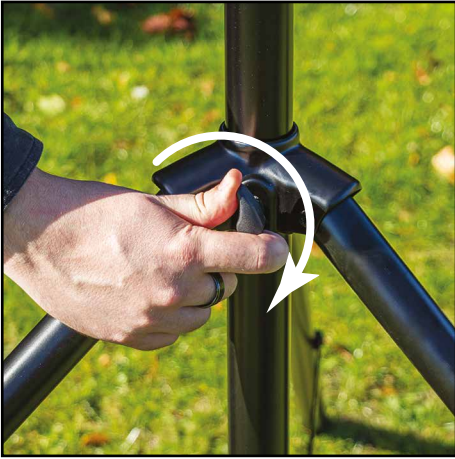
2. Locate the leg release knob and slacken by rotating in an anti-clockwise direction.



3. Hold the mast firmly in one hand. Grasp a leg with another and pull downwards to spread the tripod legs.



4. The legs are in the correct position when the tie bars between the legs and centre mast are horizontal to the ground.



5. Re-tighten the leg release knob by turning in a clockwise direction. Do not over tighten.



6. Remove the light head from its storage bag. Check the light head locking knob is fully undone.



7. Place the battery pack into the bracket. Only use the handle provided to lift the battery, never the battery cable.



8. Secure the battery in place with the velcro strap. Check the velcro is securely in place before placing on tripod.



9. Connect the battery cable to the light head cable, it only fits one way.



10. Push the connector in until it clicks into place. This ensures a good water resistant connection. Dependant on battery model the light may switch on as soon as this connection is made.



11. Carefully lower the light head onto the mast spigot until flush with the wide collar.



12. Tighten the light head knob by turning in a clockwise direction.



13. The head has a limited level of adjustment for optimum illumination of the ground. Tilt the head back depending on the area to be illuminated. Note that the limited movement is intentional and that the advanced optics are designed to work in the angle allowable.



14. Press the button the rear of the unit to turn the power on. The light-head unit will now illuminate. The battery level lights will also illuminate at the same time and stay on whilst the head is running, giving you an indication of level remaining (this button push is not required on versions where the light illuminates as soon as connected).



15. Slacken off the tripod mast knob by rotating in an anti-clockwise direction.



16. Holding the lower mast section secure with one hand, pull the upper mast section upwards in stages. A safety pin will click into holes in the mast as it is raised, allowing movement upwards only. Once full height is reached gently lower a short distance until the mechanism clicks into the highest hole for safety.



17. Re-tighten the mast knob by rotating in a clockwise direction. Do not over tighten.



18. The KFire-LITE is now setup and ready for use.

4c) BREAKING DOWN OPERATION

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



1. Slacken off the mast knob by rotating in an anti-clockwise direction.



2. Press and hold the lever below the knob. The mast will slowly lower until it comes to a stop above the knob. The head will defend initially then slow and come down under full control on an air cushion system built into the mast.



3. Press the button to turn off the power. On versions where the switch only controls the display press the button to toggle the display on off as required.



4. Slacken off the light head knob by rotating in an anti-clockwise direction until it comes to a stop.



5. Lift the light head off the unit and place on the ground. If the head is hot at end of use allow to cool for 5 minutes before handling.



6. **IMPORTANT** Disconnect the battery cable by pressing in the tab of the connector as shown above, then gently pull the connectors apart.

WARNING

The battery pack must always be disconnected after use to prevent any risk of turning the power on while the light heads are stored. The light heads produce a lot of heat when switched on and will damage the storage bag or any surface in close proximity to the lens.



7. If you want to remove the battery pack from the light head pull up the velcro strip.



8. Lift the battery pack out carefully using the handle. **DO NOT LIFT BY THE CABLE.**



9. Once the light head has cooled down place back in it's storage bag. If transporting the batteries in the head unit in the bag, ensure the battery cable is disconnected first. Make sure the battery display is also turned off.



10. Unscrew the tripod leg securing knob by rotating in an anti-clockwise direction.



11. Hold the mast firmly in one hand. Grasp a leg with another and pull upwards to close the tripod legs.



12. Re-tighten the leg release knob. Do not over-tighten.



13. Place the tripod back inside it's storage bag.

⚠ WARNING

As you lower the mast always be conscious of other personnel and the surrounding area above and around the KFire-LITE.

⚠ CAUTION

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

Section 5: CHARGING AND DISCHARGING

Your KFire-LITE mobile lighting system comes with a single charger or the optional 4, 5 or 6 multi-bank chargers. All chargers work identically, the multi-bank chargers gives the added versatility of a single wall plug.

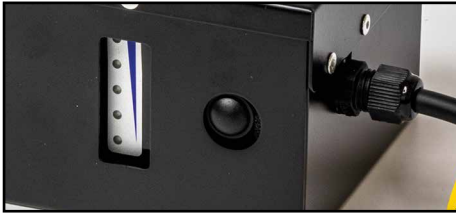
All charger types allow a wide voltage input range of 100 – 240V AC, please check your local supply is within this range before connecting the charger to your mains outlet.

The single charger uses a figure 8 mains input cable, multiple country mains input plug types can be catered for and provided for on request. Please ask your distributor or Ritelite (Systems) Ltd.

The multi-bank mains chargers use a 3 pin IEC C13 cable to mains plug depending on country. This product must have a 3 wire mains connection including an earth/grounding.

5a) OPERATION

It is good practice to keep your batteries fully charged ready for use.



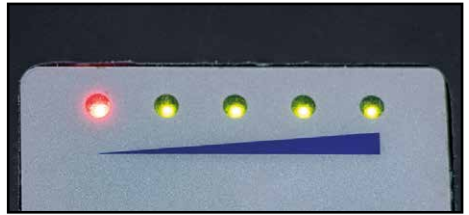
1. Check the battery is turned off, then connect your battery coupler to the charger output plug.



2. Switch the mains supply on to the charger. The power should only be turned on after the battery has been connected to the charger with the battery turned off.



3. After turning on the mains power to the charger the charger indication light will glow red. The state of charge (SOC) can be seen on the battery itself as it charges up. Note you may need to turn the battery display on with the circular button on the battery.



4. Charging from empty will take approximately 6 hours. Once charged the state of charge indicator on the battery will show all status LED's lit (one red and four green). The status LED on the charger will show green.



5. Batteries are fully charged when green lights show on both the battery AND the charger display.

PRODUCT CODE	INPUT VOLTAGE	POWER	OUTPUT	DIMENSIONS (L x W x H)	WEIGHT
LSPL/CHARGER150	100V to 240V AC 50/60Hz 1.0A MAX	45W	29.4V 1.5A	114 x 51 x 33mm	0.22Kg
LSPL/4WAYCHARGER150	100V to 240V AC 50/60Hz 2.0A MAX	180W	29.4V 1.5A x 4	340 x 188 x 45mm	2.25Kg
LSPL/5WAYCHARGER150	100V to 240V AC 50/60Hz 2.5A MAX	225W	29.4V 1.5A x 5	420 x 188 x 45mm	2.76Kg
LSPL/6WAYCHARGER150	100V to 240V AC 50/60Hz 3.0A MAX	270W	29.4V 1.5A x 6	500 x 188 x 45mm	3.28Kg



6. Once charged first disconnect the mains supply to the charger at the wall socket, then disconnect all batteries. Batteries can be left on charge indefinitely as the charger manages the charge without overcharging. For best results ensure batteries are fully charged within 24 hours prior to use. Turn the battery display off once charging is complete.

5b) IN USE

Your KFire-LITE battery will show its state of charge (SOC) via the 5 LED display on the battery.

When the battery is disconnected from the charger and the power on button pressed the LED's will show the charge level, the single red (power on LED) and four green LED's indicate the battery is fully charged at 100%.

As the battery discharges the green LED indicators will gradually go out. When the red LED indicator shows, the battery is low and those relying on the light should finish the task in hand so they aren't suddenly left in darkness. At 5% SOC the red LED will flash.

When the battery is completely exhausted no LED's will show until the battery is placed on charge again.

When in use it is a good idea to monitor the state of charge periodically to be aware of the approximate time you may have left in use. Be aware of the light required for the time it takes to finish the task in hand and pack away.

5c) BATTERY CARE

For advice on how to look after your lithium batteries to maximise life and performance please visit www.ritelite.co.uk/lithium-battery-care/ or scan the QR code below.



LITHIUM BATTERY CARE

Section 6: MAINTENANCE

- It is recommended that all KFire-LITE battery chargers 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.
- 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 free where applicable.
- The KFire-LITE must be taken out of service if, during use, or repair and maintenance serious damage is discovered.
- The KFire-LITE 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.

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>

Section 7: ACCESSORIES FOR THE KFIRE-LITE TRAINING KITS



LITHIUM BATTERY
LSPL/BATT200



TRIPOD
LSPL/TRIPOD



BATTERY CHARGER
LSPL/CHARGER



4-WAY CHARGER
LSPL/4WAYCHARGER



5-WAY CHARGER
LSPL/5WAYCHARGER



6-WAY CHARGER
LSPL/6WAYCHARGER



STABILITY KIT
LSPL/STABILITYKIT



FOR 2 UNITS
HEAD STORAGE BAG
LSPL/HEADBAG



FOR 2 UNITS
TRIPOD STORAGE BAG
LSPL/TRIPODBAG



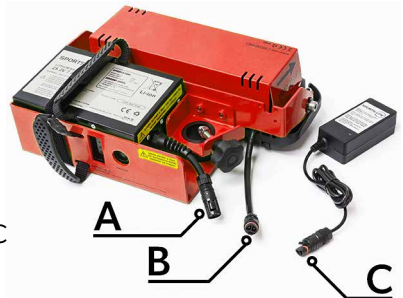
FENCE ADAPTOR
LSPL/FENCEADAPTOR

Section 8: SPARES

A) BATTERY CONNECTOR - 2000860A

B) KFIRE-LITE HEAD CONNECTOR - 2000859A

C) BATTERY CHARGER CONNECTOR - 2000859C



Other spare parts are available in case of damage. Please contact the sales office on +44 (0) 1780 758585 to discuss if required.



The information contained in this manual is based on products manufactured up to the time of publication. Ritelite (Systems) Ltd reserves the right to change any of this information without notice.

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