

KAM LED JAVELIN

Twins lens LED flower effect

OPERATION

After you connect the effect to the mains, the unit will start to run. The device works without a controller as it features a built-in microphone, which provides automatic sound control.

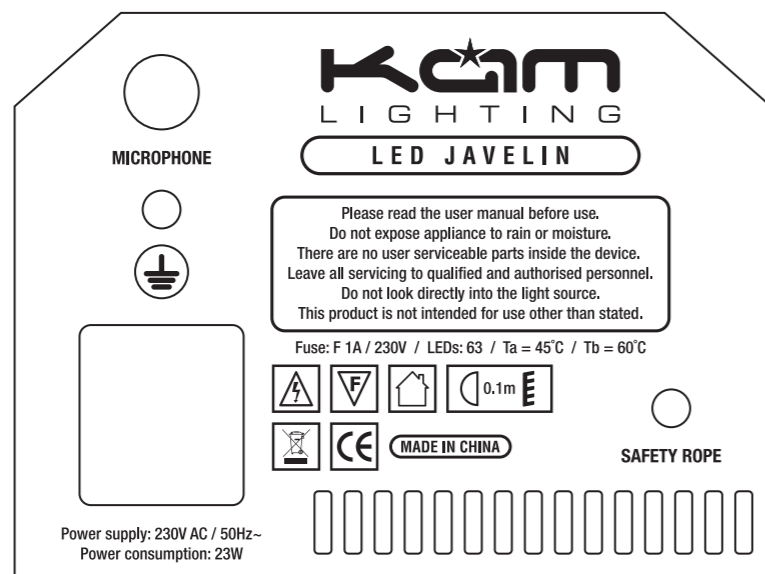
FEATURES

Twin lens LED flower effect
Produces stunning patterns and effects
Plug & Play operation
LED with sharp red, green and blue coloured beams
Sound activated with built-in programs
Output similar to a dual 150W halogen
Wide beam spread covers a large area
94 x extreme bright LEDs (47 LEDs for each lens)
Patterns that can be projected on a dance floor or wall
No fan, no motor, low maintenance, extreme long life
Power consumption: 12W

TECHNICAL SPECIFICATIONS

Power supply: 230V AC, 50Hz
Power consumption: 23W
Sound-control: via built-in microphone
Maximum ambient temperature T_a : 45°C
Maximum housing temperature T_B (steady state): 60°C
Minimum distance from flammable surfaces: 0.5 m
Minimum distance to lighted object: 0.1 m
Fuse: F1A, 250V
Number of 5mm LEDs: 94
Dimensions (LxWxH): 280 x 280 x 185mm
Weight: 2Kg

Due to continuous product development, specifications and appearance are subject to change.
If this product is ever no longer functional please take to a recycling plant for environmentally friendly disposal.



Kam LED Javelin rear panel

For information on the entire Kam range and all the latest new products visit:

www.kam.co.uk

Kam products are manufactured and distributed by: Lamba plc, Unit 1, Southfields Road, Dunstable, Bedfordshire, United Kingdom LU6 3EJ
Telephone: (+44) (0)1582 690600 • Fax: (+44) (0)1582 690400 • Email: mail@lambapl.com • Web: www.lambapl.com

KAM

INSTRUCTION MANUAL



KAM LED JAVELIN

Twins lens LED flower effect

www.kam.co.uk

KAM LED JAVELIN

Twins lens LED flower effect

INTRODUCTION

Thank you for having chosen this KAM product. If you follow the instructions given in this manual, we are sure that you will enjoy your lighting effect for many years to come.

SAFETY

For your own safety, please read this user manual carefully before using this product.

It is important that you...

- Follow the instructions of this manual
- Consider this manual to be part of the total product
- Keep this manual for the entire service life of the product
- Pass this manual on to further owners of the product

IMPORTANT

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to drastic temperature change (e.g. after transportation), do not switch it on immediately. Allow the unit to reach room temperature. Condensation may arise causing moisture inside the unit.

Please make sure that no damage has occurred during transportation. Should you notice any damages on the mains power cable or on the casing, do not operate the device and consult your retailer. Immediately

The input voltage supply must be exactly the same as stated on the device. Wrong voltages or power outlets can lead to the destruction of the device and to possible electric shock. Always plug in the power plug last. The power plug must always be inserted without force. Make sure that the plug is tightly connected to the mains socket. Handle the power cable with particular caution! Never touch them with wet hands, as this could lead to electric shock. Never operate next to sources of heat or cold. any Disregard can lead to power cable damages, fire or electrical shock.

If extension cables are used, make sure that the core diameter is sufficient for the required power consumption of the device. All warnings concerning the power cables are also valid for possible extension cables.

Always disconnect from the mains, when the device is not in use or before cleaning. Only handle the power cable by the plug. Never pull out the plug by tugging the power cable. Cleaning can be carried out using a soft cloth
Do not use liquids or strong cleaning agents, no liquids or moisture should be allowed to enter this unit.

WARNING

Never look directly into the light source, Keep the unit away from children. Never leave this device running unattended.

OPERATING

This device is a lighting effect for creating decorative effects. This product is only allowed to be operated with an alternating voltage of 230V, 50Hz and was designed for indoor use only. This device is designed for professional use, e.g. on stages, in discotheques, theatres etc. Lighting effects are not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

When choosing the installation position, please make sure that the device is not exposed to extreme heat, moisture or dust and the mounting position is suitable to hold the units weight, a safety chain or wire should always be used when mounting this unit on rigging or truss There should not be any cables lying around.

This device must never be operated or stored in surroundings where water, rain, moisture etc may harm the device. Moisture or very high humidity can reduce the insulation and lead to electrical shock. When using smoke machines, make sure that the device is never exposed to the direct smoke jet and is installed in a distance of 0.5 meters between smoke machine and device.

The ambient temperature must always be between -5°C and +45°C. Keep away from direct heat source. The relative humidity must not exceed 50% with an ambient temperature of 45°C. This device must only be operated in an altitude between -20 and 2000m over NN.

Never use the device during thunderstorms. Extreme voltage could destroy the device. Always disconnect the device during thunderstorms.

The minimum distance between light-output and the illuminated surface must be more than 0.1 meters. This device should only be used for an installation using the mounting bracket. In order to safeguard sufficient ventilation; leave 50cm of free space around the device.

The housing must never touch surrounding surfaces or objects. Make sure that the area below the installation is not blocked when rigging, derigging or servicing the fixture. Always fix the fixture with an appropriate safety-rope.

Operate the device only after having become familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Never use solvents or aggressive detergents in order to clean the device! Use a soft and damp cloth.

Please use the original packaging if the device is to be transported. Make sure that you pack the device in the original state.

Please consider that unauthorized modifications on the device are forbidden due to safety reasons! This will also invalidate your warranty.

INSTALLATION - OVERHEAD RIGGING

The installation structure has to be built and constructed in a way that can hold 10 times the weight for 1 hour without any harm coming to the structure. The installation must always be secured with a secondary safety attachment, e.g. an appropriate safety chain or rope. This must be constructed in a way that no part of the installation can fall down if the main structure fails.

Make sure that safety related and technical installations are approved by an expert before putting into operation for the first time and subsequently checked each year after that

PROCEDURE

The device should be installed away from areas where people may walk by or be seated. IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and or damage to property.

The device has to be installed out of the reach of people. If the device is to be lowered from the ceiling or high joists, professional trussing systems have to be used. The device must never be fixed swinging freely in the room.

CAUTION

Devices in hanging installations may cause severe injuries if they fall. If you have doubts concerning the safety of a possible installation, do NOT install the device! Before rigging make sure that the installation area can hold a minimum point load of 10 times the device's weight.

When installing the device, make sure there is no highly inflammable material (decorations, etc.) within a minimum distance of 0.5m. Mount the device to your trussing system using an appropriate clamp.

For overhead use, always install an appropriate safety bond. You must only use safety bonds complying with DIN 56927, quick links complying with DIN 56926, shackles complying with DIN EN 1677-1 and BGV C1 carabines. The safety bonds, quick links, shackles and the 00031622.DOC, Version 1.014/29 carabines must be the correct dimensions and used correctly in accordance with the latest industrial safety regulations (e. g. BGV C1, BGI 810-3). Please note: for overhead rigging in public or industrial areas, a series of safety instructions have to be followed that this manual can only give in part. The operator must therefore inform himself of the current safety instructions.

The manufacturer cannot be made liable for damages caused by incorrect installations or insufficient safety precautions.

Pull the safety bond through the attachment eyelet and over the trussing system or a safe fixation spot. Insert the end in the quick link and tighten the safety screw. The maximum drop distance must never exceed 20 cm. A safety bond which already held the strain of a crash or which is defective must not be used again. Adjust the desired inclination-angle via the mounting bracket and tighten the fixation screws.

CAUTION

Before operating for the first time, the installation must be approved by an expert.

Mains connection

Connect the device to the mains with the power-plug. The position of the connection-cables is as follows:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	Earth symbol

The earth has to be connected!

If the device is to be directly connected with the local power supply network, a disconnection switch with a minimum opening of 3mm at every pole has to be included in the permanent electrical installation.

The device must only be connected with an electrical installation carried out in compliance with the IEC standards. The electric installation must be equipped with a Residual Current Device (RCD) with a maximum fault current of 30mA.

CLEANING AND MAINTENANCE

The operator has to make sure that safety relating and machine-technical installations are inspected by an expert after every four years in the course of an acceptance test. The operator has to make sure that safety-relating and machine-technical installations are inspected by a skilled person once a year.

The following points have to be considered during the inspection:

- 1) All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on housings, fixations and installation spots (ceiling, suspension, trussing).
- 3) The electric power supply cables must not show any damages, material fatigue (e.g. cracked or damages cables).

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed. Disconnect from mains before starting maintenance operation!

CAUTION

We recommend a frequent cleaning of the device. Please use a soft lint-free and moistened cloth. Never use alcohol or solvents! There are no serviceable parts inside the device except for the fuse. Maintenance and service operations are only to be carried out by authorized dealers.

REPLACING THE FUSE

If the fine-wire fuse of the device fuses, only replace the fuse with a fuse of same type and rating. Before replacing the fuse, unplug mains lead.

PROCEDURE:

- Step 1: Open the fuse holder on the rear panel with an appropriate screwdriver.
- Step 2: Remove the old fuse from the fuse holder.
- Step 3: Install the new fuse in the fuse holder.
- Step 4: Replace the fuse holder in the housing.

Should you need any spare parts, please use genuine parts. If the power cable of this device is damaged, it has to be replaced by a special power supply cable available at your retailer.

Should you have further questions, please contact your retailer.