

# LASER SHOW 30



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## USER MANUAL



Thank you for choosing this KEY-LIGHT product. For your safety and for the optimal use of all the possibilities of the device, read this instructions carefully before using the device

Before using this device, make sure there is no damage from transport. In case of damage, do not use the device and contact the seller.

**Important:** This device has left our factory in perfect condition and well packaged. It is essential that the user follows the safety instructions and warnings included in this manual. The warranty does not apply in case of damage due to improper use. The seller does not take responsibility for any defects or problems resulting from not taking into account the warnings in this manual.

Keep this manual in a safe place for future reference. If you sell the device, be sure to attach this manual as well.

#### **Check content:**

- 1 LASER SHOW 30
- 1 Remote control
- 1 power cord
- 1 instructions for use

#### **SAFETY INSTRUCTIONS:**



CAUTION, to reduce the risk of electric shock, do not open the product



To protect the environment, please recycle the packaging as much as possible.

To avoid any risk of fire or electric shock, do not expose this device to rain or humidity.

To prevent condensation from forming inside the unit, wait a few minutes to allow the unit to adjust to room temperature when it arrives in a heated room after transport. Condensation prevents the unit from operating at optimum performance and can even cause damage.

This product is intended for indoor use only.

Do not insert metal objects or pour liquid into the appliance. Risk of electric shock or malfunction. If a foreign object is introduced into the unit, immediately disconnect the unit from the power source.



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Place the device in a well-ventilated area away from any flammable material or liquid. The appliance must be fixed at least 50cm from the walls.

Do not cover ventilation openings, a risk of overheating would result.

Do not use in dusty environment and clean the unit regularly.

Do not leave the unit within reach of children.

Inexperienced persons should not use this device.

Do not direct the laser effect towards aircraft.

The maximum ambient operating temperature of the device is 40°C. Do not use the device above this temperature. Make sure that the area below the installation site is free of unwanted people during assembly, daemon and maintenance.

Allow the unit to cool down for about 10 minutes before repairs.

Always unplug the device if you do not use it for an extended period of time or if you want to undertake repairs.

Electrical installations may only be carried out by qualified personnel and in accordance with electrical and mechanical safety regulations in force in your country.

Make sure that the voltage of the power source in the area you are in does not exceed that indicated on the back of the device.

The power cord must always be in perfect condition. Immediately turn off the unit if the cord is crushed or damaged.

Never let the power cord contact other cables!

The device must be grounded according to safety rules.

Do not connect the unit to a dimmer.

Always use the appropriate and certified cables when installing the unit.

To avoid electric shock, do not open the device. There are no parts that can be changed by the user inside.

Never repair or short-circuit a fuse. Always replace a damaged fuse with a fuse of the same type and electrical specifications!

In case of serious operating problems, stop using the device and contact your dealer immediately.

The shell and lenses should be replaced if visibly damaged.

Use the original packaging if the device is to be transported.

For safety reasons, it is forbidden to make any modification to the product not specifically authorized by the responsible parties.



**Important: Never fix the light source directly! Do not use effects in the presence of people with epilepsy.**

#### **LASER SAFETY INSTRUCTIONS:**

This laser is part of class 3B. Direct exposure of the eyes to the beam can be dangerous.

**DANGER : RADIATION LASER !  
Avoid exposing your eyes directly to the laser! Laser radiation can damage eyes and skin. All protective measures must be applied for safety reasons.**

**CAUTION, EYE DAMAGE:** Always position the laser so that the audience cannot directly look at the laser source.

Make sure the beam does not touch the audience.

This product is called a show laser, emitting radiation with a wavelength spectrum between 400 and 700 nm and producing light effects for shows.

Never direct the laser beam directly at people or animals and never leave the device unattended.

This laser can only be used for shows. The use of class 3B lasers is only permitted if it is handled by qualified and well-trained operators.

Depending on its category, the use of a laser can produce radiation that permanently damages the eyes and skin.

Laws on the use of a laser product vary from country to country. The user must always inform himself and apply the laws and safety measures rigorously in his country.

- The primary and fundamental documentation of the ANSI Z136.1 laser safety standards (2007) provides guidance for the safe use of lasers and laser systems by defining control measures for each of the four laser classes. This important documentation can be obtained from the website [www.laserinstitute.org](http://www.laserinstitute.org)

**MH DIFFUSION cannot be held liable under any circumstances for damage caused by incorrect installations and by unqualified operators.**

L'UTILISATION EST RESERVEE A UN USAGE PROFESSIONNEL  
SELON LA NORME NF EN 60825: 2008 RELATIF A LA SECURITE DES APPAREILS A LASER  
SORTANT !  
L'EXPOSITION DIRECT DE L'ŒIL AU LASER PEUT ETRE DANGEREUSE. CE LASER NE DOIT  
UTILISE QUE POUR DES SPECTACLES.  
SEUL UN OPERATEUR PROFESSIONNEL EST AUTORISE A UTILISER CET APPAREIL.

**OVERHEAD INSTALLATION:**

**Important:** Installation must be done by qualified personnel only. Improper installation can cause severe injury or damage to the device. Installation at heights requires experience. Load limits must be respected, certified installation equipment must be used, and the installed equipment must undergo regular safety inspections.

Make sure the area below the installation site is free of unwanted people during installation, uninstallation or maintenance.

Place the device in a well-ventilated area away from any flammable material or liquid. The appliance must be fixed at least 50cm from the surrounding walls.

The device must be out of reach of the public and outside areas where people pass through or areas where the public is installed.

Before installation make sure that the installation area supports a minimum localized weight of 10 times the weight of the device.

Always use a safety cable that can support 12 times the weight of the device during installation.

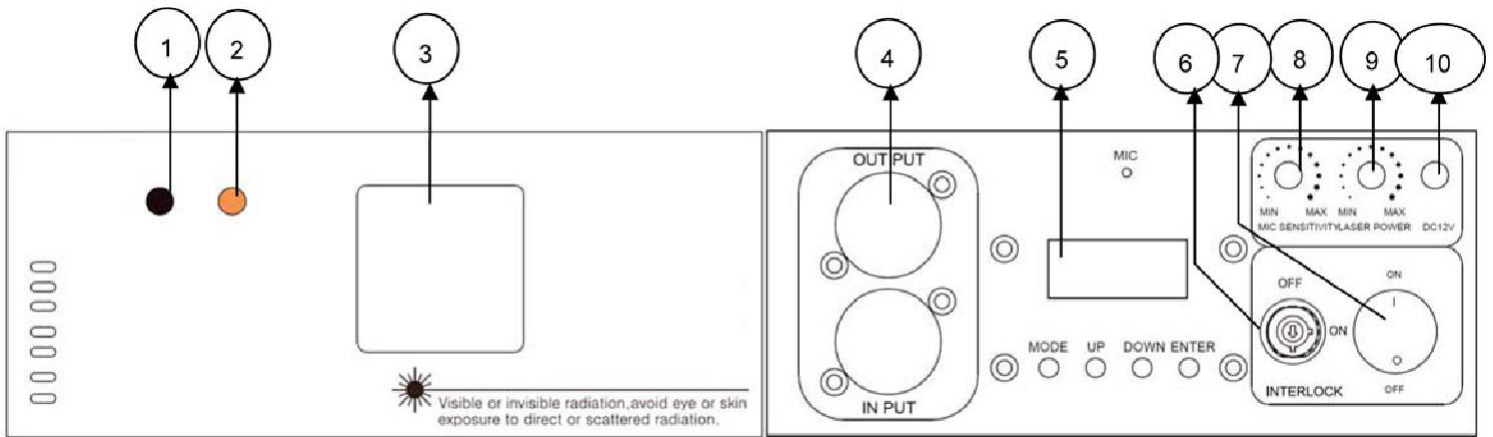
This secondary safety cable must be installed so that no part of the equipment can descend more than 20cm if the main support falls.

The device must be securely attached, a swing mount is dangerous and should not be used.

Do not cover ventilation openings to avoid overheating.

The user must ensure that the technical and safety installations are properly approved by an expert before the first use. Facilities must be inspected annually by qualified personnel to ensure optimum safety.

**DESCRIPTION FRONT AND REAR PANEL:**



1. Power on indicator

2. Remote signal reception

3. Laser aperture

4. DMX Connectors

5. LCD Display

6. Locking key

7. ON/OFF power switch

8. Adjusting Audio Sensitivity

9. Laser Source Brightness Adjustment

10. Power Connector

**FUNCTION LCD DISPLAY:**



Select the desired function using the "MODE" button.

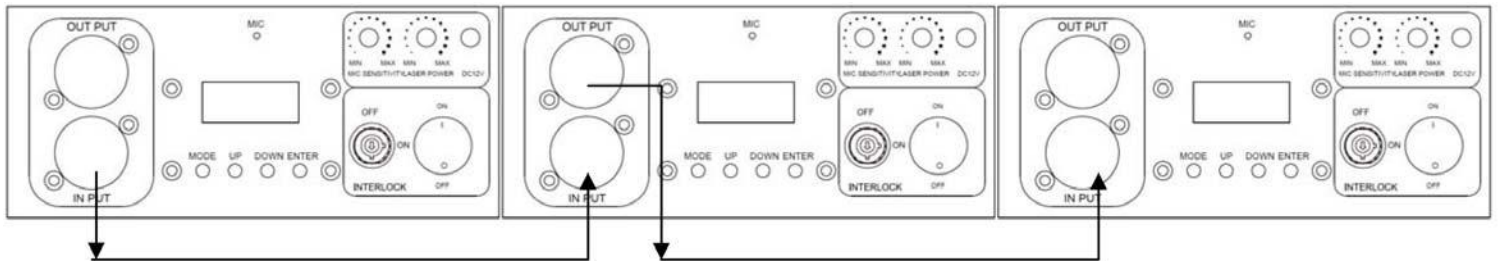
Validate by pressing "ENTER".

Main Menu	Description	
D***	d001 (DMX Address)	
AUTO	Automatic mode)	
SOUND	Musical mode	
Slav	Master/Slave Mode	
Test	Test mode	Press "UP"" and "DOWN' to choose the figures

### **DMX MODE:**

This mode can only work by connecting a controller to the universal DMX USITT512 standard.

- Install units in appropriate position
- Use a standard DMX cable to connect all units together via the DMX connectors on the rear of the units.
- A DMX plug can be placed at the end of the chain on the output of the last projector to prevent electrical disturbances and errors in the DMX control signals.
- Assign a DMX address to each unit.
- Power on all units and drive them with your DMX console.



**DMX CHANNEL ASSIGNMENT:**

CH1	Choice of mode of functioning	0~63	LASER OFF
		64~127	auto mode
		128~191	musical mode
		192~255	DMX mode (Channels 2 to 8 on)
CH2	Selection of grounds	0~255	Selection of the pre-selection
CH3	Zoom	0~127	Choose pattern size, 0 = normal size, 1 the smallest, 63 the largest
		128~255	Zoom variation from slow to fast
CH4	X-Axis Rotation	0~127	Manual
		128~255	Automatic from slow to fast
CH5	Y-Axis Rotation	0~127	Manual
		128~255	Automatic from slow to fast
CH6	Z-axis rotation	0~127	Manual
		128~255	Automatic from slow to fast
CH7	X-axis motion	0~127	Manual
		128~255	Automatic from slow to fast
CH8	Y-axis motion	0~127	Manual
		128~255	Automatic from slow to fast
CH9	Choice of colours	0~255	Green

## **FEATURES:**

1. Power of the source:
  - Green: 30 mW – 532 nm
2. Motor: not at wide angle
3. Operating modes: Musical, auto, DMX, master/slave
4. Power supply: AC 220V~240V, 50/60Hz to DC12V 1.5A
5. Consumption: 12W.
5. Dimensions: 190x150x115 mm
6. Weight: 1.2 KG

## **MALFUNCTION**

If the power on indicator is off and the Laser is not working, check the power cord and voltage.

In Stand Alone mode, if the power on indicator is on and the music mode indicator is off and the laser is not working; This means that the sound source is too low and cannot activate the laser in music mode, you can then increase the sensitivity of the microphone on the rear panel of the unit. Verify that the unit has been set to slave or DMX mode.

In Master/Slave mode, if the Slave units do not work, check as follows:

Check that there is only one Master unit in the chain and that the others are in Slave mode.

Check that you control your units with a DMX controller.

Verify that you are using a good quality DMX cable and XLR connectors.

In DMX mode, the unit cannot be controlled by the DMX console, but the DMX indicator flashes:

Verify that the DMX console and unit are on the same channel.

If the output laser beam takes an unusual direction, restart the unit.

If the unit is in default, turn off the unit and turn it back on after 5 minutes.

After trying the above solutions, you do not solve your problem, contact your local dealer.



All information is subject to change without notice.

LASER SHOW 30 imported by MH DIFFUSION 9, rue Camille Flammarion, Z.A. les Marsandes, 91630 Avrainville

You can download the latest version of this manual on our website: [www.mhdiffusion.fr](http://www.mhdiffusion.fr)