



**BEAMZ**  
**MADE**  
**EAZY**

152.610 V1

**ACRUX**

**QUICK START GUIDE**

# LASER SAFETY



**READ FOR THE COMMISSIONING OF THE LASER ALL SAFETY INSTRUCTIONS AND TECHNICAL DATA OF THIS MANUAL CAREFULLY AND THOROUGHLY.**



Laser Light is different from any other light source with which you may be familiar. The light from this product can potentially cause eye injury if not set up and used properly. Laser light is thousands of times more concentrated than light from any other kind of light source. This concentration of light power can cause instant eye injuries, primarily by burning the retina (the light sensitive portion at the back of the eye). Even if you cannot feel "heat" from a laser beam, it can still potentially injure or blind you or your audience. Even very small amounts of laser light are potentially hazardous even at long distances. Laser eye injuries can happen quicker than you can blink.

It is wrong to assume that a single beam of a bundle of hundreds by the laser beams made, it cannot cause injury.

It is also incorrect to assume that it is safe to look at a moving beam. In the laser safety regulation, it is not legal to aim Class 3B/4 lasers in areas which people can get exposed also on a dance floor.



## CAUTION:

- Do not point lasers at people or animals.
- Never look into the laser aperture or laser beams, this can potentially cause instant eye injury or blindness if laser light directly strikes the eyes.
- Do not point lasers in areas in which people can potentially get exposed, such as uncontrolled balconies, etc.
- Install the laser units such that laser beams above the audience move See section later in this manual.
- Test the laser units always first before the public is present.
- Do not point lasers into the public or at highly reflective surfaces such as windows, mirrors and shiny metal. Even laser reflections can be hazardous.
- Never point a laser at aircraft or into the sky, this is a federal offense.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not expose the output optic (aperture) to cleaning chemicals.
- The operation of a laser is only allowed if the show is controlled by a skilled and well-trained operator familiar with the requirements that are needed.
- Do not use laser if housing is damaged or open, or if optics appear damaged in any way.
- Never leave this device running unattended.
- Always use appropriate lighting safety cables when hanging lights and effects overhead.

The legal requirements for using laser entertainment products vary from country to country. The user is responsible for the legal requirements at the location/country of use.



This unit contains laser components with high power, live parts and parts that emit radiation. Therefore, **DO NOT OPEN** the housing, **THIS CAN BE FATAL!** It can also cause blindness, skin burns and fires.



**EYE DAMAGE OCCURS FASTER THAN YOU CAN BLINK YOUR EYES.**

Further guidelines and safety programs for safe use of lasers can be found in the ANSI Z136.1 Standard "For Safe Use of Lasers", available from "www.laserinstitute.org". Many local governments, corporations, agencies, military and others, require all lasers to be used under the guidelines of ANSI Z136.1. Laser Display guidance can be obtained via the International Laser Display Association, www.laserist.org.



**ATTENTION!** *The use in France is only allowed to the professional user and not to the end user.  
See decision: [www.legifrance.gouv.fr](http://www.legifrance.gouv.fr)*



## LASER LIFETIME

Follow below advice to enjoy a longer laser lifetime:

- Quick on/off switching of this device will reduce durability of the laser diode dramatically.
- Ensure that device does not get overheated:
  - Switch off device when it is not needed. Diodes are switched on and can wear out even if there is no visible laser output.
  - Switch off device after 1 hour and let the laser cooling down for 15 minutes.
  - Ensure that the fans and heat sinks are free of dust and dirt.

**LASER**  

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**LIFE TIME** 

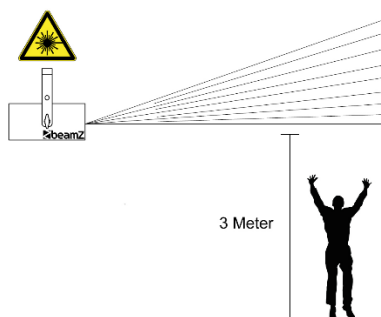
## INSTALLATION



**CAUTION!** Please consider the respective national norms during the installation! The installation must only be carried out by an authorized employee or dealers!

This fixture has been designed to be hung. It is recommended for safety purposes, your lighting effect are properly mounted using a suitable hanging clamp and safety cable. Items appropriate for safe and effective mounting are easily sourced from your lighting vendor.

International laser safety regulations require that lasers must be operated in the fashion illustrated below, with a minimum of 3 meters (9.8 ft) of vertical separation between the floor and the lowest laser light vertically. Additionally, 2.5 meters of horizontal separation is required between laser light and audience or other public spaces.



**CAUTION!** Use of controls, adjustments, or performance of procedures other than what is specified herein may result in hazardous radiation exposure!

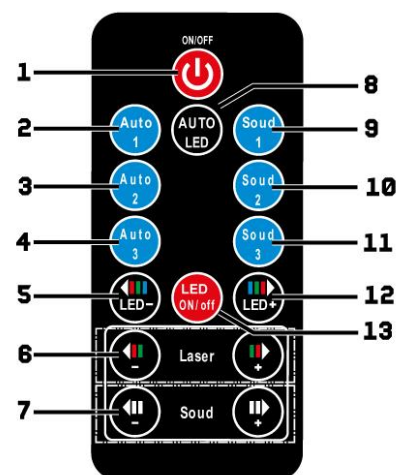
- The installation of the fixture has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.
- Always use the supplied mounting bracket to hang the fixture.
- The fixture should aid of a mounting bracket (not included) to the supplied mounting bracket to be confirmed.
- The installation must always be secured with a secondary safety attachment, e.g. an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.
- The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.
- The fixture should be installed in the position where persons cannot reach.



**CAUTION!** When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in between a distance of min 0.5 meter.

## REMOTE CONTROLLER

1. ON / OFF
2. Auto mode 1
3. Auto mode 2
4. Auto mode 3
5. LED colour change
6. Laser colour change
7. Sound sensitivity adjustment
8. LED Auto
9. Sound control mode 1
10. Sound control mode 2
11. Sound control mode 3
12. LED Colour change
13. LED On/off



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# BEAMZ

**YOUR FUTURE**  
**YOUR SKILLS**  
**YOUR PLATFORM**  
**YOUR PARTY**  
**YOUR EVENT**



is a leading developer of lighting products, including intelligent DMX moving heads, wireless battery operated DMX effects, static washes, sound-activated club effects, strobes & blacklights, LED lighting, fog and special effects machines, lasers and indoor and outdoor architectural lighting, as well as lighting controllers and protective bags.

