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algam Lighting SPECTRUM 330 RGY Multicolor LASER Show Projector Instruction Manual

Contents

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Product Information

- **Product Name:** Spectrum 330 RGY Laser
- **Product Type:** Multicolor LASER show projector
- **Power:** 330mW
- **Color:** Multicolor (Red-Green-Yellow)
- **Laser Class:** 3B
- **Compliance:** EN60825-1 / 2014
- **Wavelengths:** 638nm, 520nm

Product Usage Instructions

Attention:
This product is intended for use by professionals only. Please read the entire manual before using the product.

Safety Instructions

- Before use, carefully read the user manual and follow the safety precautions listed.
- Avoid direct eye exposure to laser radiation. Looking into the beam can be dangerous.
- This product operates at a very high level of light output. Do not look directly into the beam.
- Disconnect the fixture from power before servicing, cleaning, or installing. Do not connect this unit to a dimmer power pack. Protect the unit from rain or moisture.
- Locate the fixture in a well-ventilated spot, at least 50cm away from surrounding walls and flammable materials.
- The fixture becomes hot during use and remains hot for 10 minutes after use. Do not touch the unit.
- This unit must be installed by professional people. If suspended, ensure that the structure and hardware used for suspension are secure. The hardware must support at least 10 times the weight of the device suspended. Ensure that the public is not looking at the beam. Do not attempt to repair the fixture yourself, contact a professional repair service.

Installation

Please carefully read the instructions provided in the user manual regarding installation before operating the device.

Usage

- Connect the power supply to the fixture.
- Ensure that the unit is placed in a well-ventilated area, away from flammable materials.
- Turn on the fixture and select the desired mode of operation (AUTO2, MUSIC1, or MUSIC2).
- Avoid looking directly into the laser beam.

Maintenance

- Regularly clean the exterior of the fixture using a soft cloth.
- Do not attempt to repair the fixture yourself. Contact a professional repair service for any maintenance or repairs.

Note:

This fixture complies with European standard NF EN60825-1:2014 regarding laser radiation and eye exposure.

Thank you for choosing one of our Algam Lighting DMX splitters. Please read this user manual carefully and follow the instructions to avoid danger or damage to the unit due to mishandling. Keep this user guide for future reference.

SAFETY INSTRUCTIONS

- The symbols shown above are internationally accepted symbols that warn of potential hazards with electrical products.
- if one of those symbols is on your product, please read carefully the following:
- **WARNING!**

  Before use, and before installing this fixture, read carefully user manual, carefully and follow the safety precautions listed on this page.
- **WARNING!**

  Very high-level light output. DO NOT LOOK INTO THE BEAM.
- **DANGER!**

  Hazardous voltage, Risk of electric shock!
  - ALWAYS disconnect the fixture from power for servicing, cleaning, or installing. Do not connect this unit to a dimmer power pack. Protect the unit from rain or moisture.
  - Locate the fixture in a well-ventilated spot, away from flammable materials. The fixture must be fixed at least 50cm from the surrounding walls.
- **WARNING!**

  Burn Hazard. Do not touch. Very hot surface. The fixture becomes hot during use and remains hot 10 min after use. Do not touch the unit.
- **WARNING!**

  Fire Hazard! Keep flammable materials away from the fixture. Do not operate the fixture with an ambient temperature over 4O°C.

- **DANGER!**

  Safety Hazard. Risk of injury.
    - This unit must be installed by professional people. If suspended, make sure the structure and the hardware used for this suspension are secured. This Hardware must support at least 10 times the weight of the device suspended.
    - Ensure the public is not looking at the beam. Do not try to repair the fixture by yourself. Contact a professional repair service.

Please carefully read the instruction, which includes important information about the installation, usage, and maintenance, BEFORE operating this device.
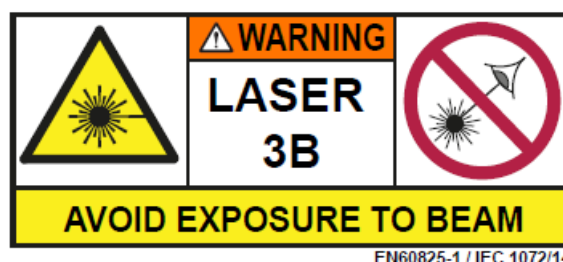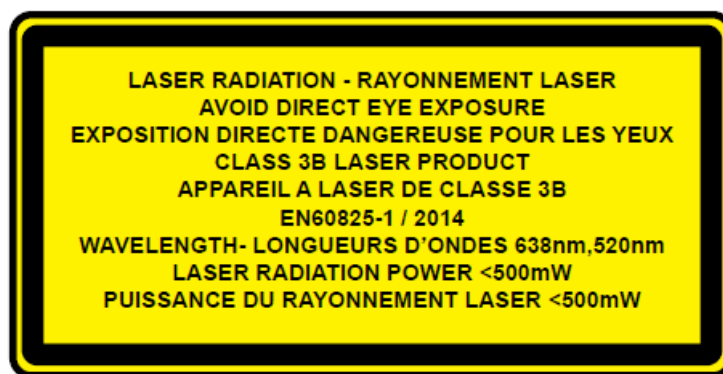
- This device is exclusively meant to be used as a splitter for DMX signals within the limits given in this manual. Using it in any other way you risk electric shock and the warranty will become void.
- Never sever or manipulate the power cord or the plug. If a power cord is provided with an earth lead, this is mandatory to ensure safe operation! Otherwise, a LIFE THREATENING situation exists!
- Unpack and check carefully there is no transportation damage before using the unit. Never put a damaged device into operation.
- Before operating, ensure that the voltage and frequency of the power supply match the power requirements of the unit as stated in this manual.
- The unit is for indoor use only. Use it only in a dry location. Exposing the device to rain or moisture would cause the risk of electrical shock or fire.
- DO NOT let any liquids or objects enter the unit. Should any liquid be spilled on the unit, DISCONNECT the power supply to the unit immediately and contact the service company.
- The unit must only be installed in a location with adequate ventilation. Be sure that no ventilation slots are blocked. In order to guarantee adequate ventilation, allow a free air space of at least 20 cm around the sides and top of the unit.
- Disconnect the device from the main power before any servicing or maintenance.
- Notice regarding power disconnection: To disconnect the device from the power source the power plug must be removed from the power socket. For this reason, the device must be placed in a position where constant unobstructed access to the power socket is assured, thus in an emergency situation you are able to immediately pull out the power plug. To eliminate the risk of fire you must completely disconnect the power plug from the power socket after the device has been used.
- Always grasp the power cord by the plug. Do not pull on the cord itself and never touch the power cord with wet hands as this could result in a short circuit or an electrical shock. Do not place the device, speaker cabinets or anything else on the power cord, and make sure that it does not become clamped.
- Before a storm and/or a thunderstorm with a risk of lightning, disconnect the device from the mains power supply.
- Under no circumstances may you open the device housing. Should you do so your safety would not be assured. There are no operational components whatsoever inside, only dangerous voltages that can give you a deadly shock!
- NEVER use the unit under the following conditions :> In places subject to vibrations or bumps.> In places with a temperature of over 45 °C or less than 2 °C.> In places subject to excessive dryness or humidity (ideal conditions are between 35% and 80%).
- Never submerse the device in water or any other liquid. Only wipe it with a slightly damp cloth.

- Never operate the device near flames, flammable, explosive materials, or hot surfaces. Otherwise, you run the risk of causing a fire.
- Never leave this device running unattended.
- This appliance must not be used by individuals (including children) with restricted physical, physiological, or intellectual abilities or deficiencies in experience and/or knowledge unless they are supervised by a person responsible for their safety or receive from this person instruction in how the appliance is to be used.
- Keep children away from the device and power cord! Children frequently underestimate the dangers of electrical devices. Also, keep the plastic packaging away from small children. There is a risk of suffocation!
- In the event of serious operating problems, stop using the unit immediately. Never try to dismantle, repair, or modify the unit by yourself. Otherwise, the warranty becomes void. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.

CAUTION!
Read carefully this user manual, and follow the safety precautions listed in this manual before use and before installing this fixture.

This fixture conforms and complies with European standard NF EN60825-1:2014

EN60825-1 2014 / IEC 1075/14

EN60825-1 / IEC 1072/14

AVOID EYE EXPOSURE TO DIRECT OR SCATTERED RADIATION

- This product is for the LASER show only. The class 3B laser light should be operated by a professional operator only. International laser safety regulations require that the vertical height from the installment to the
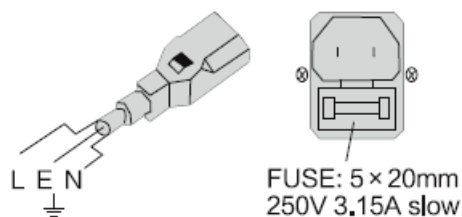
ground is more than 3 meters.

- The horizontal distance is 2.5m from the audience.
- Never direct the laser beam to people.
- The user is responsible for the legal requirements at the location of use.
- The laser security features are designed according to the specific terms of the relevant international laser safety standards EN60825-1.
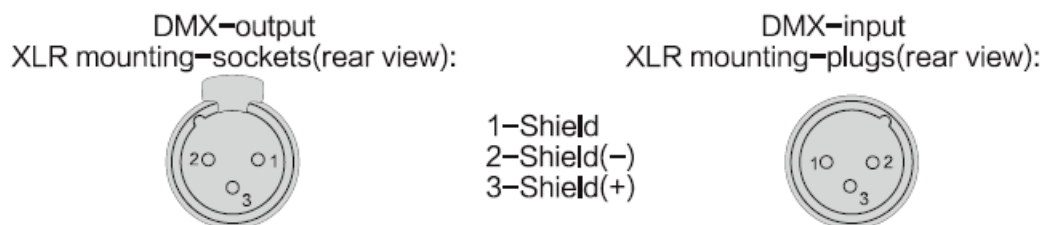
PRODUCT INSTALLATION

Power supply
Please use the attached power, note that power voltage and frequency are the same as the marked voltage and frequency of the device when connecting power. Every device's power should be connected separately so that the device can be controlled individually.
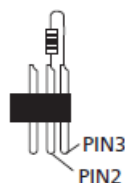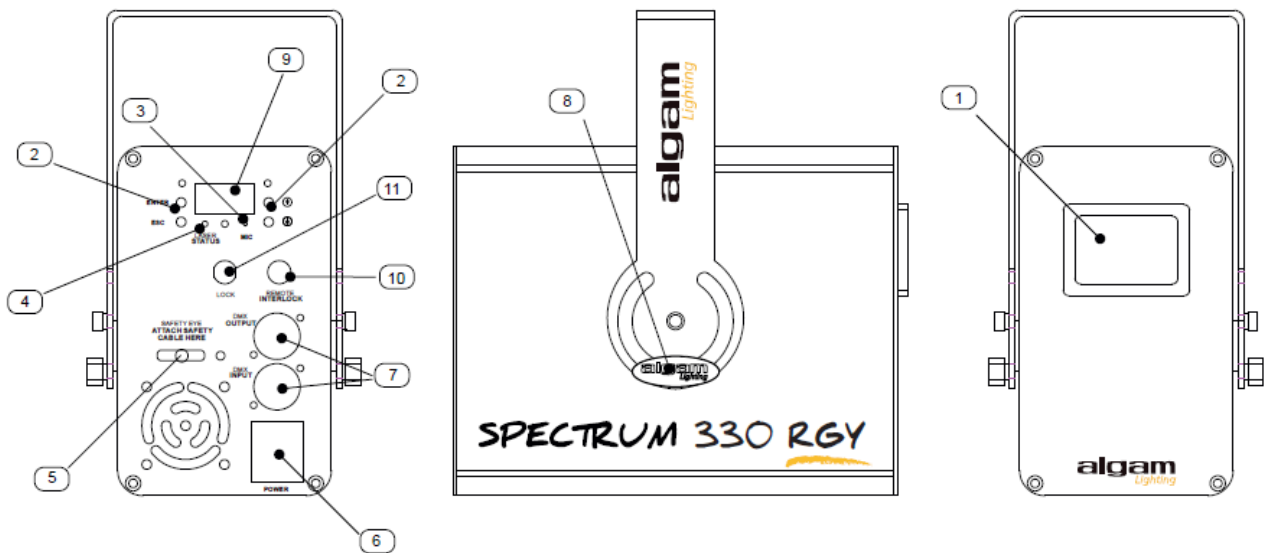

L E N

FUSE: 5 × 20mm
250V 3.15A slow

DMX connection
The connection between laser lights and OMX must use the shied cable of a diameter of more than 0.5mm. Please use the attached 3-pin XLR plug/socket to connect the OMX output/input interface. The connection between the socket and cable is below(note the plug/socket's 3-pin number and position).

DMX−output
XLR mounting−sockets(rear view):

1−Shield
2−Shield(−)
3−Shield(+)

DMX−input
XLR mounting−plugs(rear view):

When using a standard OMX512 control signal, the last device's output interface must be connected to an OMX plug. This plug puts a 120-ohm resistance between the "canon" plug' 2-pin and 3-pin. This is shown below pie. Sticking this plug into the last device's signal output interface will avoid interference during the process of signal transmission.
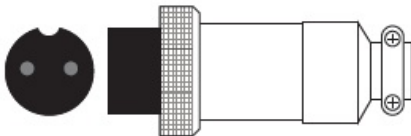

PIN3
PIN2

Operating instructions

	FONCTION	DESCRIPTION
1	LASER output	Laser Beam output
2	Keyboard	For menu/function selection
3	Microphone	Audio detection
4	LED status	STATUS LED , light ON when Laser beam is active
5	Secutrity hook	Attach safety cable here
6	Power connector	Mains connectors
7	DMX connectors	DMX IN and DMX OUT
8	Bracket screw	Adjust projector position
9	Display	Menu/function display
10	INTERLOCK connector	For security shutdown of laserbeam EN 60825-1:2014
11	Security key	For security shutdown of laserbeam EN 60825-1:2014

IMPORTANT!

An «Interlock» connector cap is included in the box with this device. If you are not using a system such as an Emergency RED Button (optional … not included in this package) to shut down the LASER beam in case of danger, you MUST connect this CAP to the INTERLOCK connector (see (10) in the previous page). Without this CAP connector, the LASER beam will be turned off.

Interlock connector CAP

Emergency Red Button
(Optional, Not included with the product)

MENU OPERATING INSTRUCTION

First Menu	Second Menu
1 D512 DMX-512 mode	A001 address setting
2 AUTO Automatic mode	SH-1 /2/3 effect select
3 SOUD sound mode	SH-1 /2/3 effect select
4 Sped Auto speed and sound sensitivity	A-100 Auto speed setting in Auto mode S-20 sound-sensitive setting in SoUd mode
5 Colo	COL1 single color COL2 two color COL3 three color
6 Send Host setting	ON Device is MASTER OFF Device is Slave
7 Inve XY axis setting	Inv1 normal operation Inv2 X axis reverse Inv3 Y axis reverse Inv4 XY axis reverse
8 LED- LED background setting	ON 10S (LED background on 10sec)
9 TEST Testing function	1 TES1 2 TES2 3 TES3 fine adjustment

DMX PROTOCOL 11 CHANNELS

Channel		Value	Function
CH1	laser off/on	0	Light off
		1-255	Light on
CH2	pattern	0-255	Pattern selection
CH3	pattern rotation	0-127	Rotation angle selection
		128-191	Clockwise rotation speed selection
		192-255	Anticlockwise rotation speed selection
CH4	horizontal rotation	0-127	Horizontal rotation position selection
		128-255	Horizontal rotation speed selection
CH5	vertical rotation	0-127	vertical rotation position selection
		128-255	Vertical rotation speed selection
CH6		0-127	Pattern left and right moving angle selection
		128-255	Pattern left and right moving speed selection
CH7		0-127	Vertical position selection
		128-255	Vertical movement speed selection
CH8		0-63	pattern size adjustment
		64-127	pattern size zooming speed(from big to small)
		128-191	Pattern size zooming speed(from small to big)
		192-255	Pattern zooming(from slow to fast)
CH9		0-127	Color selection
		128-255	Color change speed selection
CH10	scan speed	0-127	Line scanning speed selection
		128-255	Dot scanning speed selection
CH11	mode selecting	0-49	Pattern control mode
		50-99	Auto mode 1
		100-149	Auto mode 2
		150-199	Sound mode 1
		200-255	Sound mode 2

SPECIFICATIONS

- **Lighting sources:**
  - LASER Red 638nm/250mW
  - LASER Green 520nm/80mW
- 128 built-in programs: Tunnel effect, wave, ceiling effect, and patterns.
- Mode Music, Auto, and DMX
- 11 DMX channels
- **DMX connectors:** XLR 3 pins
- Security KEY and INTERLOCK connector conformed to EN 60825-1:2014
- **Mirror motors:** Step motors

- **Cooling system:** fan
- **Electric consumption:** 40W max.
- **Power supply:** 110-230V AC -50/60Hz
- **Net weight:** 2,25kg
- **Dimensions:** 26x26x15cm (with bracket)

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose of your normal household waste. Dispose of this device through an approved waste disposal or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

This Algam Lighting product is compliant with all required UE certifications and conforms to the following standards and UE directives:

- LVD Directive 2014/35/EU:
- EMC Directive 2014/30/EU:
- RoHS 2 Directive 2011/65/EU
- RED Directive 2014/53/EU
- LASERS directive: EN 60825-1:2014

The UE DECLARATION OF CONFORMITY is available, if you need it, please just ask for it at: **contact@algam.net**.

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2 Rue de Milan, 44470 Thouaré-sur-Loire, FRANCE. **contact@algam.net**.

Documents / Resources

SPECTRUM 330 RGY	**algam Lighting SPECTRUM 330 RGY Multicolor LASER Show Projector** [pdf] Instruction Manual SPECTRUM 330 RGY Multicolor LASER Show Projector, SPECTRUM 330 RGY, Multicolor LASER Show Projector, LASER Show Projector, Show Projector, Projector