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algam Lighting SPECTRUM330 RGY Multicolor Laser Show Projector Instruction Manual

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Product Information

SPECTRUM330 RGY LASER D'ANIMATION MULTICOLORE 330MW MULTICOLOR LASER SHOW PROJECTOR

The SPECTRUM330 RGY is a professional-grade multicolor laser show projector. It is designed for use in professional activities only. The laser projector complies with the EN60825-1:2014 safety standard. The device emits a dangerous laser radiation that can be harmful to the eyes. Therefore, it is important to follow the safety instructions and guidelines provided in the user manual.

Specifications

- Dimensions: 26x26x15cm (with mounting bracket)
- Weight: 2.25kg
- Laser Power: 330mW
- Color: Multicolor (RGY)

Features

- Multicolor laser animation
- DMX control capability
- 11-channel DMX protocol
- Menu navigation and control buttons

Product Usage Instructions

Safety Instructions

Please read and follow the safety instructions below to ensure safe usage of the SPECTRUM330 RGY laser show projector:

1. Before using the equipment, carefully read all the instructions provided in the user manual.
2. Pay attention to the internationally accepted symbols displayed on the device, indicating potential electrical hazards.
3. Avoid direct exposure of the laser radiation to your eyes, as it can be dangerous.
4. Keep the user's manual for future reference.

Installation

Follow the steps below to install the SPECTRUM330 RGY laser show projector:

1. Ensure that the power supply is disconnected before starting the installation process.
2. Mount the projector using the provided mounting bracket.
3. Connect the power supply to the designated power socket on the device.
4. Connect the DMX cables to the appropriate DMX input and output connectors.

Usage

To operate the SPECTRUM330 RGY laser show projector, follow these instructions:

1. Refer to the user manual for the DMX protocol and channel configuration.
2. Use the menu buttons to navigate and select different modes and settings.
3. Refer to the user manual for specific instructions on adjusting colors, sound sensitivity, speed, and other parameters.
4. Ensure that all safety precautions are followed during the operation of the device.

For detailed information on using specific features and functionalities, refer to the user manual provided with the product.

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

SAFETY INSTRUCTIONS

The symbols shown above are internationally accepted symbols to warn of potential hazards related to the use of electrical dangers associated with the use of electrical equipment. If any of these symbols are present on your device, please read the following instructions:

ATTENTION!
Before using your equipment, we recommend that you read all the instructions in this manual.

ATTENTION!
This device produces an intense and powerful light. Risk to the eyes. Do not look directly into the beam. Do not expose yourself to laser radiation, as there is a risk of burns.

DANGER!
Hazardous voltage, risk of electric shock. Do not open the product. To reduce the risk of electric shock do not expose this equipment to rain or moisture.

ATTENTION!
Risk of burns. The exterior of the unit can become very hot. Do not touch within 10 minutes of use.
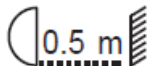
ATTENTION!
Fire hazard. Keep all combustible and flammable materials away from the materials away from the unit during operation.

DANGER!
Safety hazard. This appliance presents a significant risk of injury. Follow the safety instructions.

Place the unit at least 50cm away from flammable materials and walls.

INSTALLATION

- Unpack and check carefully for transport damage before using the product. Never put a damaged product into operation.
- This product must be installed with strong hooks of adequate size for the weight carried. The product must be screwed to the hooks and tightened properly to prevent it from falling due to vibrations. Also check that the structure (or hanging point) can support at least 10X the weight of the hanging unit. The device must be installed by a qualified person and must be placed out of reach of the public. It is necessary to use a secondary

hanging system (safety sling) approved for the weight of the device.

- This unit is intended for indoor use only. Exposing the unit to rain or moisture may result in electric shock or fire.
- Do not place the unit, speakers or any other object on top of the power cord and make sure it is not pinched.
- For proper protection against electric shock, the unit must be connected to earth (ground). The electrical supply circuit must be equipped with a fuse or circuit breaker and a differential protection device.
- Power Disconnection Notice: To disconnect the device from the power source, the power plug must be removed from the power outlet. For this reason, the device must be placed in a position that allows constant, unobstructed access to the power outlet. This way, in case of an emergency, you can disconnect the power plug immediately.
- The unit should only be installed in a well ventilated area. Make sure that no ventilation slots are blocked. To ensure adequate ventilation, leave at least 20 cm of free air space around the sides and top of the unit.

USAGE

- Never leave this equipment unattended.
- If you experience any problems with the unit, stop using it immediately. Do not attempt to repair it yourself. Contact your dealer or an authorized service center. There are no user replaceable parts.
- NEVER use the unit under the following conditions:
  - In areas subject to vibration or bumps,
  - In places where the ambient temperature is above 45 ° C or below 2° C.
  - In areas exposed to excessive dryness or humidity (ideal conditions: between 35% and 80%).
- Never use the unit near flames, flammable or explosive materials or hot surfaces. Doing so may cause a fire.
- The exterior of the unit can become very hot. It is important to avoid contact with the unit during operation and for at least 10 minutes after use.
- It is important to use the supplied power cable (grounded cable).
- Before turning on the power, make sure that the voltage and frequency of the power supply match the power requirements of the unit, as described in this manual.
- Never cut or tamper with the power cord or plug. If a power cord is provided with a ground wire, it is required for safe ope- ration! Risk of fatal electric shock!
- Always hold the power cord by the plug. Do not pull on the cord itself and never touch the power cord with wet hands as this may cause a short circuit or electric shock.
- Do not connect this device to a dimmer pack
- DO NOT allow liquids or objects to enter the unit. If liquid is spilled on the unit, immediately UNPLUG the power supply to the unit and contact customer service.
- You must ensure that the power cord never gets wet during operation. Before a thunderstorm and/or a lightning storm, unplug the unit from the mains.
- Under no circumstances should you open the housing of the device. If you do, your safety will not be assured. There are no operational components inside, only dangerous voltages that can give you a fatal shock!

MAINTENANCE / SERVICE

- Never attempt to disassemble, repair or modify the unit yourself. Otherwise, the warranty becomes void. Repairs by unqualified persons may result in damage or malfunction. Please contact the nearest authorized

service center. The light source contained in this fixture should only be replaced by the manufacturer or its service agent or a person of equivalent qualification.

- Screens, lenses or UV filters should be replaced if they are visibly damaged to an extent that compromises their effectiveness, such as by deep cracks or scratches.
- The lamp should be replaced if it has been damaged or deformed by heat.
- Disconnect the unit from the mains before servicing.
- If the cable or flexible outer cord of this fixture is damaged, it must be replaced with a special cable or cord from the manufacturer or its service agent only.
- Never immerse the unit in water or any other liquid. Wipe only with a slightly damp cloth. algamP.15
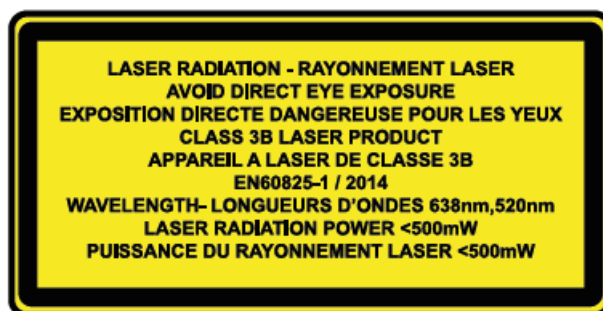
CAUTION!
Read carefully this user manual, and follow the safety precautions listed in this manual before use and before installing this fixture. Keep this manual for future reference.
This fixture is conformed and complying with european standard NF EN 60825-1:2014/A11:2021.

EXPLANATION OF THE NAMEPLATES ON YOUR DEVICE :

CLASS 3B LASER PRODUCT:
AVOID DIRECT
EYE EXPOSURE

LASER RADIATION - RAYONNEMENT LASER
AVOID DIRECT EYE EXPOSURE
EXPOSITION DIRECTE DANGEREUSE POUR LES YEUX
CLASS 3B LASER PRODUCT
APPAREIL A LASER DE CLASSE 3B
EN60825-1 / 2014
WAVELENGTH- LONGUEURS D'ONDES 638nm,520nm
LASER RADIATION POWER <500mW
PUISSANCE DU RAYONNEMENT LASER <500mW

HAZARDOUS EXPOSURE
LASER RADIATION IS EMITTED FROM THIS APERTURE

EN60825-1 2014 / IEC 1075/14

LASER RADIATION
AVOID DIRECT EYE EXPOSURE CLASS 3R LASER PRODUCT

WARNING
LASER
3B
AVOID EXPOSURE TO BEAM
EN60825-1 / IEC 1073/14

CAUTION

Avoid exposure to laser rays, as there is a risk of burns. In this context, also exercise extreme caution when using optical instruments in the vicinity of the device (glasses, camera, binoculars, etc.). Avoid any flammable substances or objects in the laser's scanning area. Incorrect installation or use of the laser may result in personal injury, fire or explosion.

This device is intended for use in professional entertainment and display applications only. This device has been developed for professional use and is not suitable for domestic lighting.

In some countries, the installation and use of lasers is subject to approval by the relevant authorities. Consult and follow local regulations.

Distances between the device and the public or maximum permissible exposures are defined by each country and must be assessed by a trained and qualified professional. In some countries, lasers may only be installed and used in places open to the public by a designated Safety laser officer. Please contact your local authorities for further information.

DÉCRET N°2012-1303 (FRANCE)
When in use, this device must be installed in such a way that the rays remain above eye level and do not reach the public under any circumstances.

DÉCRET N° 2007-665 (FRANCE)
This device is a laser projector for show and display purposes. It is not a laser pointer and must not be used as such.

It is forbidden to use this device for any purpose other than that for which it is intended.

The manufacturer and distributor are not responsible for damage caused by ALGAM LIGHTING brand lasers. The user is solely responsible for use and compliance with regulations arising from EN 60825-1:2014/A11:2021 and applicable local regulations.

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 device when connecting power. Every device's power should be connected separately, so that device can be controlled individually.

DMX CONNECTION
Connection between laser lights and DMX must use the shied cable of diameter more than 0.5mm. Please use the attached 3 pin XL plug/socket to connect the DMX output/input interface. The connection between socket and cable as below (note the plug/socket's 3 pin number and position).
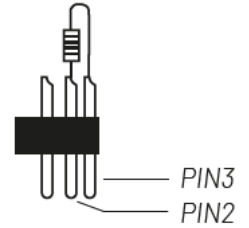
DMX-OUTPUT
XLR mounting-sockets (rear view)

DMX-INTPUT
XLR mounting-plugs (rear view)

2○   ○1
○3

1 • Shield
2 • Shield (-)
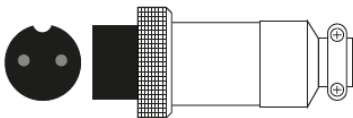3 • Shield (+)

1○   ○2
○3

PIN3
PIN2

When using standard DMX512 control signal, the last device's output interface must be connected to a DMX plug. This plug is putting a 120 ohm resistance between "canon" plug's 2 pin and 3 pin. Showing as below pic. Sticking this plug into the last device's signal output interface, it will avoid the interference during the process of signal transmission.

RIGGING

Attention! The installation must be carried out by qualifi ed service personal only. Improper installation can result in serious injuries and /or damage to property. Overhead rigging required extensive experience! Working load limits should be respected, Certifi ed installation materials should be used, the installed device should be inspected regularly for safety.
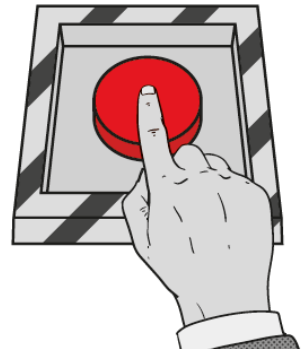
INTERLOCK

An «Interlock» connector cap is included in the box with this device. If you are not using 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 7 in nextpage). Without this CAP connector, the LASER beam will be turned off.
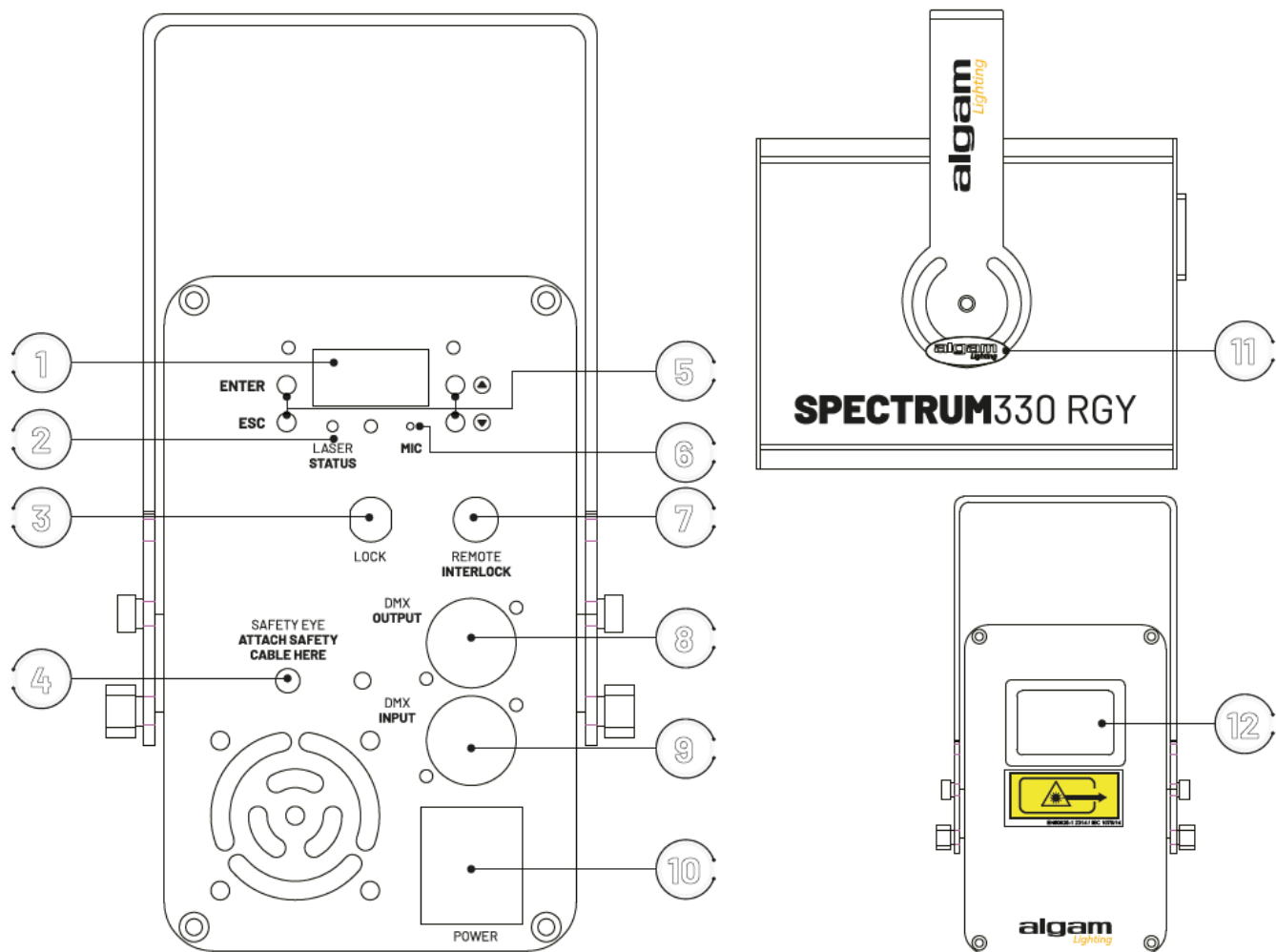
Interlock connector CAP

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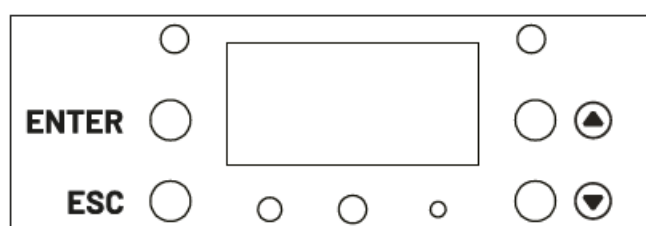*(Optional, Not included with the product)*

OPERATION INSTRUCTIONS

SPECTRUM330 RGY

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

MENU

FONCTION	DESCRIPTION
ESC	To go forward in the selected functions or go back the last layer menu
▲	To go forward in the selected functions or increase parameter
▼	To go backward in the selected functions or reduce parameters
ENTER	To go into the next layer menu

MENU

dS12	A-100	Address setting
Auto	SH1/2/3	Automatic mode effect select
Soud	SH1/2/3	Sound mode effect select
SPEd	A-100	Auto speed and sound sensitivity Auto speed setting in Auto mode
	S-20	Auto speed and sound sensitivity sound sensitive setting in Sound mode
CoLo	COL1	Single color
	COL2	Two colors
	COL3	Three colors
SEnd	ON	Device is Master
	OFF	Device is Slave
InVE	InV1	XY axis setting : normal operation
	InV2	XY axis setting : X axis reverse
	InV3	XY axis setting : Y axis reverse
	InV4	XY axis setting : XY axis reverse
LEd	ON	LED background on
	10S	LED background on 10sec
TEST	TES1	Testing function : cross
	TES2	Testing function : circle
	TES3	Testing function : square

DMX PROTOCOL – 11 CHANNELS

CHANNEL	VALUE	FUNCTION
CH1	0	Light off
	1-255	Light on
CH2	0-255	Pattern selection
CH3	0-127	Rotation angle selection
	128-191	Clockwise rotation speed selection
	192-255	Anticlockwise rotation speed selection
CH4	0-127	Horizontal rotation position selection
	128-255	Horizontal rotation speed selection
CH5	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)
	191-255	Pattern zooming (from slow to fast)
CH9	0-127	Color selection
	128-255	Color change speed selection
CH10	0-127	Line scanning speed selection
	128-255	Dot scanning speed selection
CH11	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

- Dimensions 26x26x15cm (with bracket)
- Net weight 2,25kg
- Power supply 110-240V~ 50/60Hz
- Electric consumption 40W max.
- Lighting sources LASER Red 638nm / 250mW I LASER Green 520nm / 80mW
- 128 built-in programs Tunnel effect, wave, ceiling effect, paterns…
- DMX 11 Channels
- Modes Music, Auto and DMX
- Mirror motors Step motors
- Emergency Stop Security KEY and INTERLOCK connector conformed to EN 60825-1:2014
- Cooling system Fan

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its

currently valid version.

Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal arm 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 to all required UE certifications and conformed to following standard and UE directives:

LVD Directive 2014/35/EU :

EMC Directive 2014/30/EU :

RoHS 2 Directive 2011/65/EU

The UE DECLARATION OF CONFORMITY is available, if you need it, please just ask for it at :

contact@algam.net

Documents / Resources

	algam Lighting SPECTRUM330 RGY Multicolor Laser Show Projector [pdf] Instruction Manual 330MW, SPECTRUM330 RGY, SPECTRUM330 RGY Multicolor Laser Show Projector, Multicolor Laser Show Projector, Laser Show Projector, Show Projector, Projector