algam HELIOS-II Triple Derby LED 4x3w with Strobe User Manual

algam HELIOS-II Triple Derby LED 4x3w with Strobe

Contents

Intruduction

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.

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.
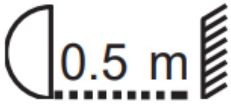
ATTENTION !

 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. P.15
- 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

- This appliance must not be used by persons (including children) with limited physical, physiological or mental capabilities or lack of experience and/or knowledge, unless they are supervised by a person responsible for their safety or are instructed by that person in the operation of the appliance.

- 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 operation! 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.
- **CAUTION :** To reduce the risk of fire replace fuse with same type and rating.

SAFETY INSTRUCTIONS

SAFETY WARNING – BUTTON CELL BATTERIES

This product contains button cell batteries. KEEP OUT OF REACH OF CHILDREN.

Ingestion may result in chemical burns, soft tissue perforation and death. Severe burns may occur within 2 hours of ingestion. Seek immediate medical attention.

Do not give to food or drink, and do not induce vomiting. If you have the battery packaging, present it to the doctors when you take over. Do not use if battery compartment is damaged or does not close. Do not allow children to replace batteries without adult supervision. Remove used batteries immediately and dispose of them in an appropriate recycling facility.

USAGE

Always select the correct battery size and type for the intended use. Follow the instructions on the device. Always insert batteries correctly, paying polarities (+ and -) marked on the battery and the equipment. Replace all batteries in a set at the same time. Do not short-circuit batteries. Do not charge batteries. Do not force discharge. Store batteries in a well-ventilated, dry place at a moderate temperature.

PRODUCT INSTALLATION

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.

CABLE SPEC.

| CABLE (EU)	CABLE (US)	PIN	INTERNATIONAL
Brown	Black	Live	L
Light Blue	White	Neutral	N
Yellow/Green	Yellow/Green	Earth	⏚

LEN
⏚
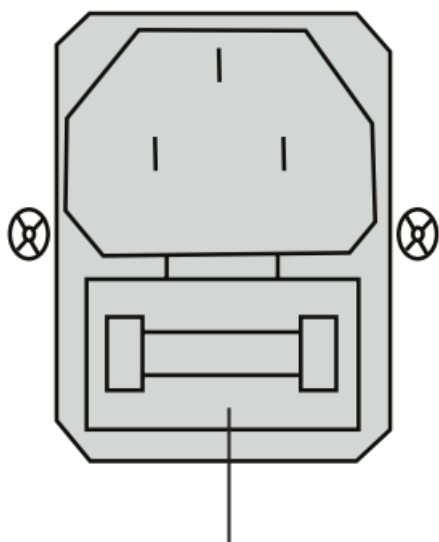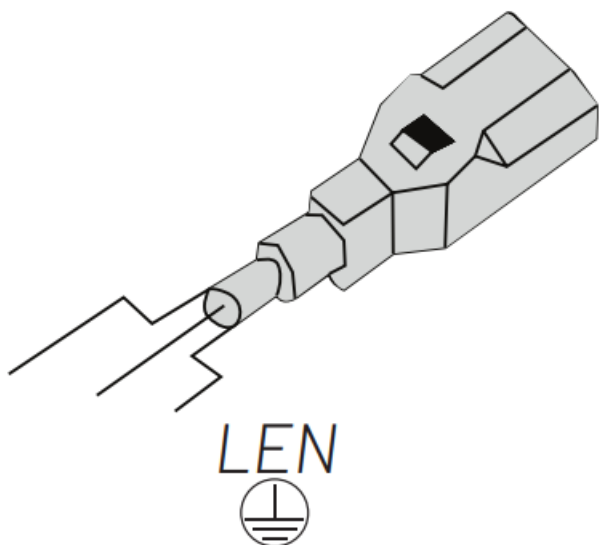
FUSE : 250V~ 1A

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).
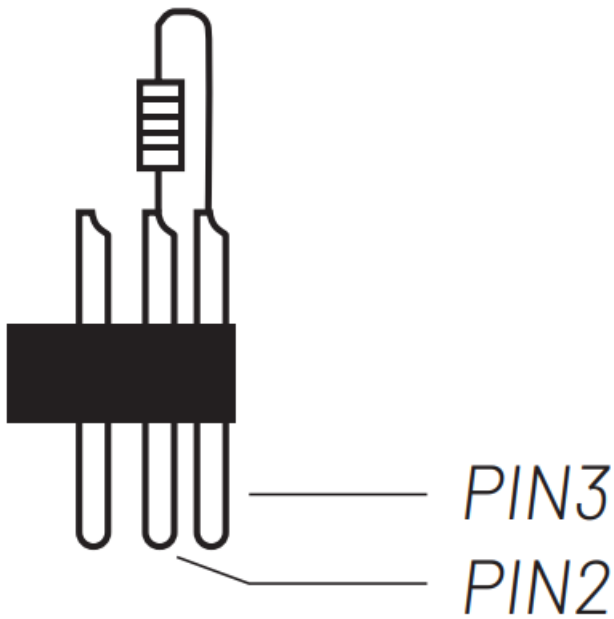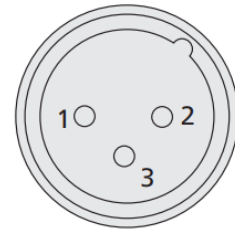
DMX-OUTPUT
XLR mounting-sockets (rear view)

DMX-INTPUT
XLR mounting-plugs (rear view)
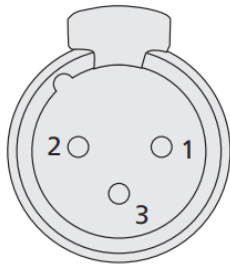
1 • Shield
2 • Shield (-)
3 • Shield (+)

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 qualified 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, Certified installation materials should be used, the installed device should beinspected regularly for safety.

Clamp

Safety rope
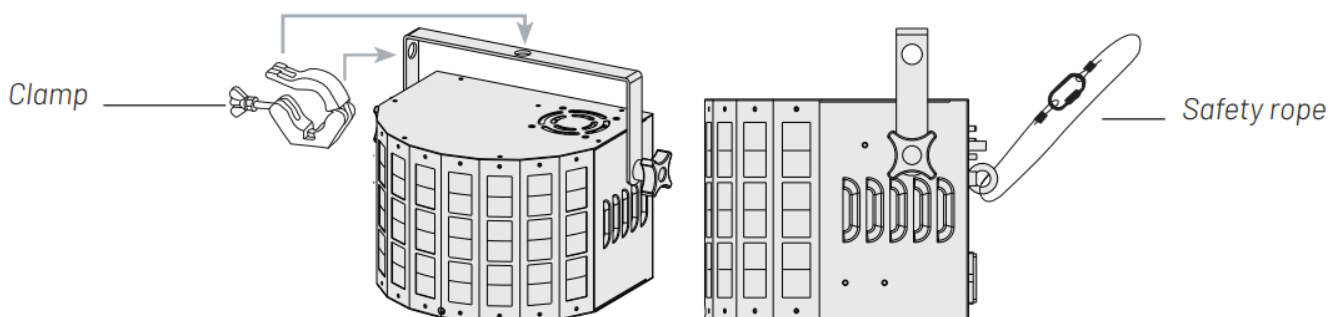
OPERATION INSTRUCTIONS
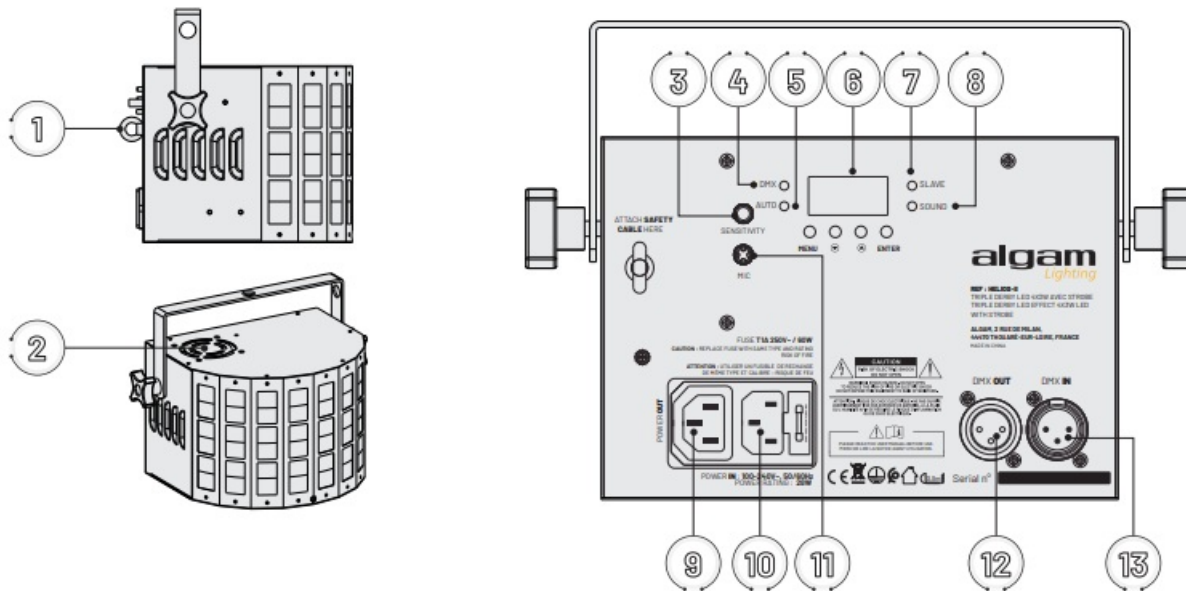
FUNCTION DESCRIPTION

1	Insurance rings	Connecting wire rope to prevent illegal operation and fall
2	Cooling fan	Cooling and never cover this fan outlet
3	Sound sensitivity	Changing sound sensitivity by potentiometer
4	DMX indicator	In DMX model, red indicate light on after DMX connected
5	AUTO indicator	In Auto model, blue indicate light on
6	LED display	For setting model
7	SLAVE indicator	In slave model, yellow indicate light on
8	MUSIC indicator	In sound model, green indicate light on
9	Power connection	Power output connect with next light
10	Power input	Power input socket, built-in protective tube and spare tube
11	Microphone	Receiving the audio signal through a microphone, and positive response to the intensity by the potentiometer
12	DMX output	3PIN female XLR interface for FMX communication
13	DMX input	3PIN male XLR interface for FMX communication

MENU OPERATING INSTRUCTION
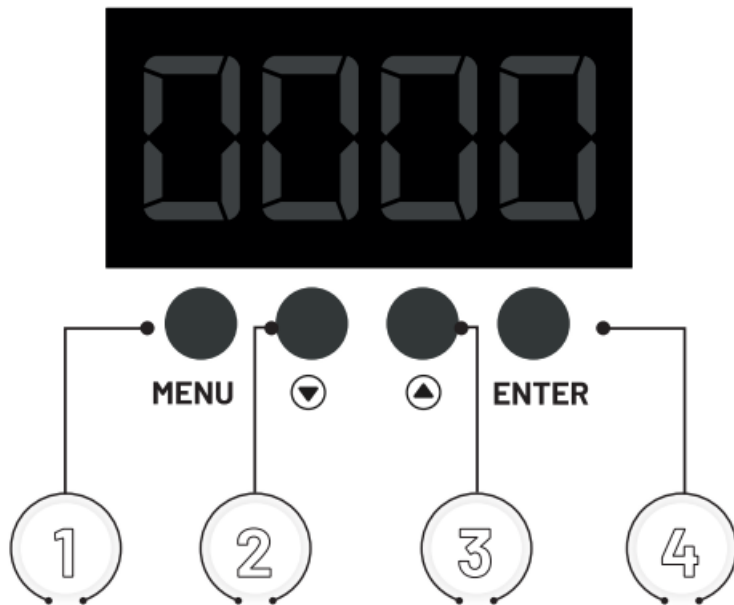
FUNCTION	DESCRIPTION
1 MENU	To go forward in the selected functions or go back the last layer menu
2 ▲	To go forward in the selected functions or increase parameter
3 ▼	To go backward in the selected functions or reduce parameters
4 ENTER	To go into the next layer menu

1. Press ENTER to save any operation, or will return to last menu in 10 seconds.

2. Touch Menu ▲ , and power on to restore factory setting

MENU	LED DISPLAY	FUNCTION
	AutM	Auto mix show
	AutP	Auto derby show
Aut	AutF	Auto strobe show
	S.01 – S.99	Speed of effects, S.01: the slowest, S.99: the fastest
	SouM	Sound mix show
Sou	SouP	Sound derby show
	SouF	Sound strobe show
	Colo	Color manual adjustment
Col	r/G/b***	LED color setting
	S.00-S.99	Strobe speed; S.00: all on, S.01: the slowest, S.99 : the fastest
Str	Stro	Enter into strobe show
	St01-St18	Different effects of strobe lighting
DMX	01Ch/04Ch	Choosing DMX channel modes
	d***	Setting channel address
SLA	slav	Enter into slave mode
	LEDS	LED power saving operation mode. On turn on nixie tube power-saving mode ; OFF turn off nixie tube power-saving mode.
SYS	vErs	Showing the program version
	tESt	Aging test program
	rESt	Restore the factory initial setup

IR REMOTE CONTROL OPERATION INSTRUCTION

Laser Remote

BUTTON	FUNCTION	**DESCRITPION**
ON/OFF	ON/OFF	Power ON/OFF. When power on, press ON/OFF, light ON, ON/OFF press again light OFF, circle as it
AUTO	AUTO	Press AUTO, enter into Auto mode, it will play Auto show randomly
MUSIC	MUSIC	Press MUSIC enter into Sound mode, it will play Auto show randomly
A	LED AUTO MODE	Auto LED show. (Press A to open, press again to close)
B	STROBE AUTO MODE	Auto strobe show (Switching to different strobe modes)
C	STROBE ON/OFF	Strobe lighting on/off. (Press to open, press again to close)
❚❚	PAUSE	Program and color change will be paused, press again to continue play
◀ ▶	COLOR CHANGING	Press these two buttons to change color
0 — 9	NUMERIC KEYS	Program speed setting. 0 is the slowest, 9 is the fastest

DMX PROTOCOL

1 CHANNEL

CHANNEL	VALUE	DESCRITPION
	000 – 009	**Close**
	010 – 050	AUT MIX
	051 – 090	AUT DERBY
CH1	091 – 130	AUT strobe
	131 – 170	SOU Mix
	171 – 210	SOU derby
	211 – 255	SOU strobe

DMX PROTOCOL

4 CHANNEL

CHANNEL	FUNCTION	VALUE	DESCRITPION
		000 – 005	No function
		006 – 020	Red
		021 – 035	Green
		036 – 050	Blue
		051 – 065	White
		066 – 080	Red/Green
		081 – 095	Red/Blue
		096 – 110	Red/White
CH1	Color setting	111 – 125	Green/Blue
		126 – 140	Green/White
		141 – 155	Blue/White

		156 – 170	Red/Green/Blue
		171 – 185	Red/Green/White
		186 – 200	Green/Blue/White
		201 – 215	Red/Green/Blue/White
		216 – 230	Automatic (4-color chase)
		231 – 255	Automatic (single/multi-color chase)
CH2	Strobe channel	000 – 005	No strobe
		006 – 255	Strobe (slow to fast)
CH3	Motor working channel	000	No function
		001 – 127	Motor indexing
		120 – 139	Motor speed
		000-009	Close
		010 – 019	Pattern 1 (slow-fast)
		020 – 029	Pattern 2 (slow-fast)
		030 – 039	Pattern 3 (slow-fast)
		040 – 049	Pattern 4 (slow-fast)
		050 – 059	Pattern 5 (slow-fast)
		060 – 069	Pattern 6 (slow-fast)
		070 – 079	Pattern 7 (slow-fast)

CH4	Strobe	080 – 089	Pattern 8 (slow-fast)
		090 – 099	Pattern 9 (slow-fast)
		100 – 109	Pattern 10 (slow-fast)
		110 – 119	Pattern 11 (slow-fast)
		120 – 129	Pattern 12 (slow-fast)
		130 – 139	Pattern 13 (slow-fast)
		140 – 149	Pattern 14 (slow-fast)
		150 – 159	Pattern 15 (slow-fast)
		160 – 169	Pattern 16 (slow-fast)
		170 – 179	Pattern 17 (slow-fast)
		180 – 255	Pattern 18 (slow-fast)

SPECIFICATIONS

Size	190 x 258 x 182mm
Weight	2kg
Power	28W
Voltage	100-240V~ 50/60Hz
White Strobe LED	0.5W x 16pcs
Red LED	3W x 1pcs
Green LED	3W x 1pcs
Blue LED	3W x 1pcs
White LED	3W x 1pcs
DMX channels	1 or 4

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
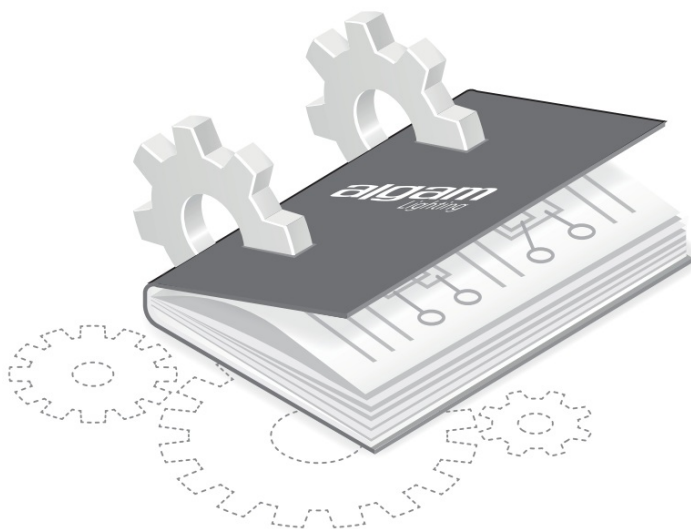
ALGAM
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Documents / Resources

algam HELIOS-II Triple Derby LED 4x3w with Strobe [pdf] User Manual
HELIOS-II Triple Derby LED 4x3w with Strobe, HELIOS-II, Triple Derby LED 4x3w with Strobe,
LED 4x3w with Strobe, Strobe