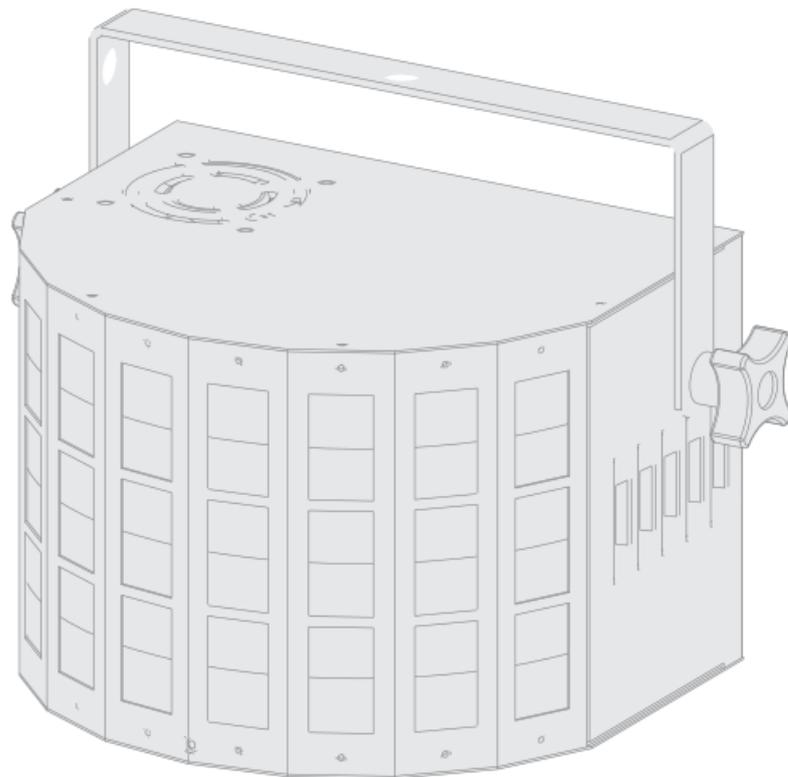




## DS-3 Derby Strobe



## User-Manual

Item number: 00069702  
Version: 08/2020

Thank you for choosing this product. To ensure that you are completely satisfied with this product, please read and understand this manual carefully.



## PLEASE READ CAREFULLY

Please keep this manual in a safe place for future reference. Hand over all documents when passing on the product to third parties. Never leave children unattended with the packaging material. For products packed in plastic bags, there is a risk of suffocation from packaging materials. The product should only be used under adult supervision. Only use the product if it is in perfect condition. Do not use the product if damage is visible or suspected. We are not liable for any damage that occurs as a result of non-observance of the safety instructions or incorrect or improper handling.



Follow the operating instructions!



The **WARNING** signal word identifies hazards that, without precautions, could result in serious injury.



The signal word **NOTE** indicates general precautions that should be observed when handling the product



Images and screen images in this manual may differ slightly from the actual product's appearance, as long as it does not adversely affect the technical characteristics and safety of the product.



All personal phrasing in this manual should be considered gender neutral.

This operating manual applies to responsible users and to persons who have been supervised or instructed in the operation of the device by a person responsible for their safety and who have proven that they are capable of handling the device.



**Children should be supervised to ensure that they do not use this device as a toy.  
Never allow children to play unattended with the packaging material.**



**Risk of damage to property! We are not liable for accidents that occur as a result of non-observance of the safety instructions or incorrect handling.**

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 **WARNING**

**Caution**

Please observe the following basic instructions in order not to endanger yourself or others and to avoid damage to external devices.

 **NOTE**

**Warnings**

Do not disassemble or modify the product. This could result in injury from electric shock. If you notice that the power cord shows obvious signs of wear, the appliance is malfunctioning, smells burnt or smokes, immediately unplug the appliance from the wall outlet and refer servicing, maintenance or repair to an authorised service centre or your dealer.

Before cleaning the product, you should turn it off and disconnect it from the power supply. Always place the product on a flat, stable surface to ensure a secure stand.

Do not use the product in a damp or wet environment.

Do not place containers filled with liquids, such as vases, glasses or bottles, on the product.

Do not place small objects on top of it that could slide in, such as hairpins, sewing needles or coins.

 **NOTE**

**Precautions**

To avoid damage to the product, do not place it in places with high temperatures or a lot of dust, do not place it directly next to an air conditioner and avoid direct sunlight.

Do not place the article near other electrical equipment to avoid interference.

Do not use force when handling the product or place heavy objects on it.

Disconnect the power supply if you are not going to use the device for a longer period of time. To disconnect the power, pull the plug, not the cable.

Please handle the power cable with care. It should not be near radiators, do not place heavy objects on it and lay it in such a way that no persons can step on it or fall over it.

 **WARNING**

**Mains voltage**

If an external power supply unit is required for use, connect it to an outlet with the correct voltage.

Do not connect the device to a different mains voltage than that for which your product is intended.

Unplug the power cord from the wall outlet when not using the product or when there is a thunderstorm.

 **WARNING**

**Installation / Hanging mounting**

The installation may only be carried out by authorised specialist personnel!  
In case of overhead rigging, please observe the applicable standards and regulations in your country. In any case, a second independent suspension must be used to secure the unit. This can be ensured by a safety net or a suitable safety rope/chain or similar.  
When mounting the unit on a stand, its secure stand and compliance with its maximum load must be ensured.

 **WARNING**

**Fire hazard**

Do not attach the product to flammable materials. Do not cover ventilation slots and do not operate the product above 40°C ambient temperature. Use the attached holding device for mounting.  
Keep a safety distance of at least 50cm to all other surfaces. Maintain a minimum distance of at least 50cm between the light emission and the illuminated area. Keep liquids, moisture and inflammable materials away from the product.

 **NOTE**

**High light intensity**

High light intensity can cause visual damage. Do not look directly into the light source.

 **NOTE**

**Epilepsy**

Flashing light can cause epileptic seizures. People who are sensitive to flashing light should avoid exposing themselves to flashing light and refrain from looking directly at the light source.

 **NOTE**

**Place**

Do not expose the product to the following conditions to avoid deformation, discoloration or major damage:  
Direct sunlight, extreme temperature or humidity, excessively dusty or dirty place, strong vibrations or shocks, strong magnetic fields

 **NOTE**

**Cleaning**

Clean the product only with a soft, dry cloth. Do not use paint thinner, solvents, cleaning fluids or chemically impregnated wipes.

 **NOTE**

**Handling**

Do not exert excessive force on operating elements such as switches, knobs, buttons, and fastening screws.

Do not insert any paper, metal or other objects inside. If this happens, unplug the AC adapter/power cord from the wall outlet. Have the product checked by qualified service personnel.

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## 1. General overview

The DS-3 Derby Strobe Beam Effect is a powerful RGB LED light effect that produces multicoloured moving light beams. The best effect you get in connection with a fog machine. This lighting effect is DMX controllable, but can also be used stand-alone or in a master-slave circuit.

## 2. Commissioning and mounting

Connect the power cable to a power outlet with the appropriate performance data. Do not use a dimmer.

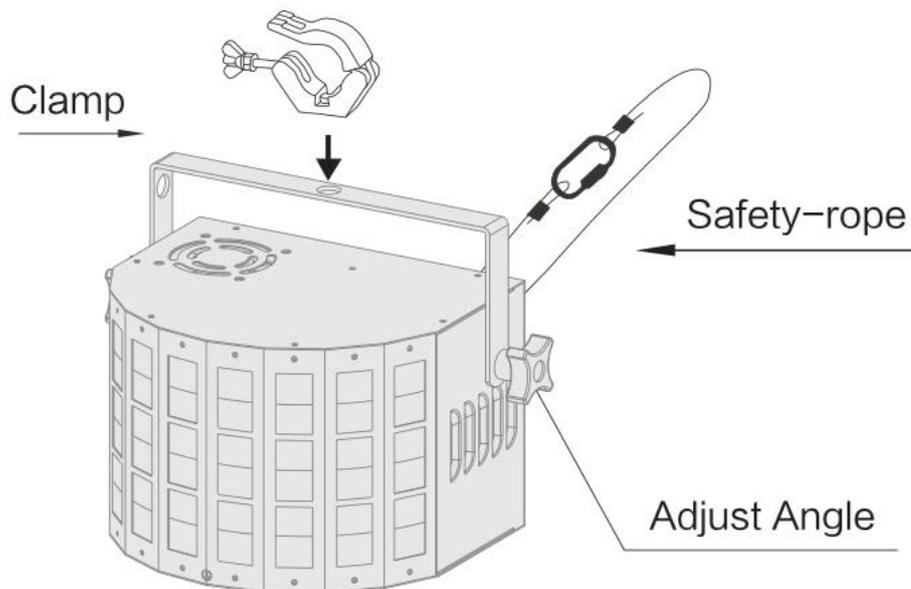
To ensure adequate ventilation, mount the light effect with the bracket or holding device. Operate the spotlight to all further sides with a minimum distance of 50cm to surfaces. Keep a minimum distance of at least 50cm between the light emission and the illuminated area.

This spotlight is only intended for operation in dry indoor areas (protection class IP20). Keep the spotlight away from liquids, moisture and flammable materials.

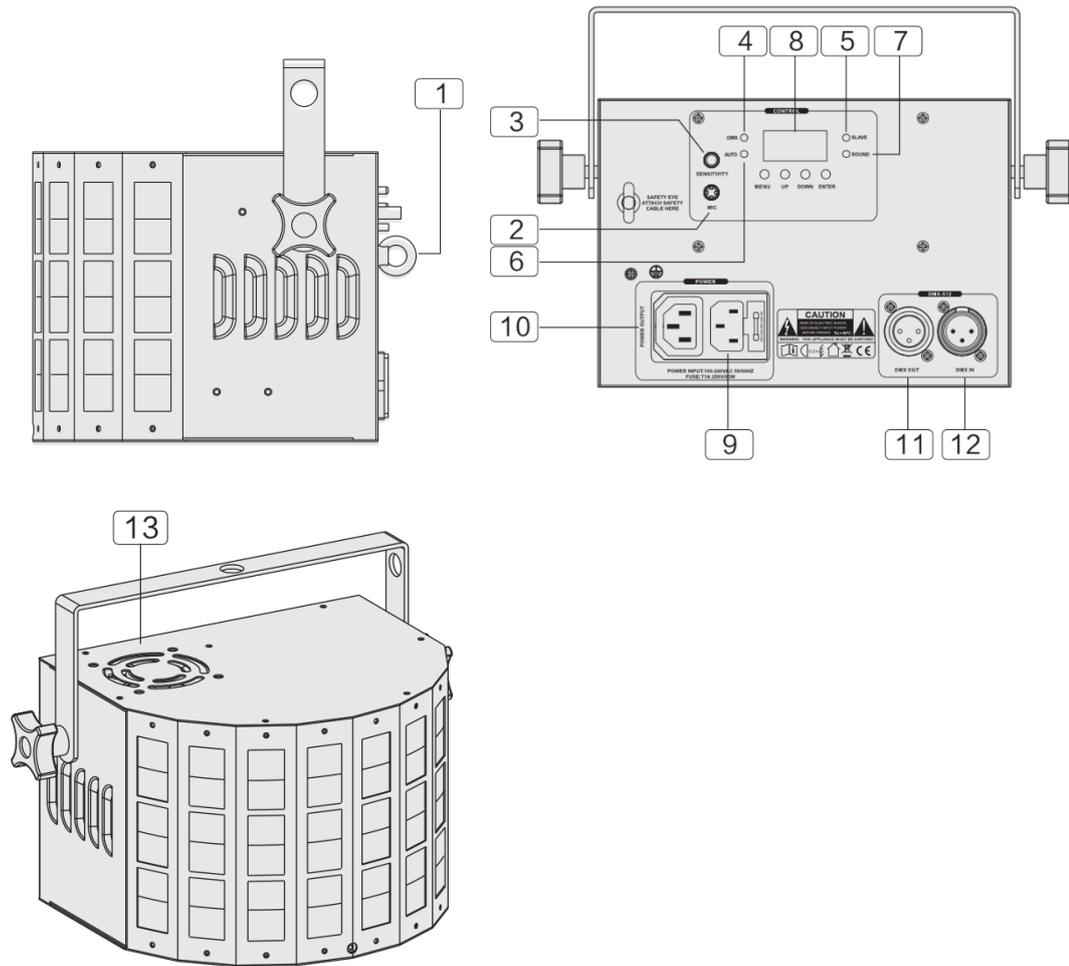
Fasten the spotlight carefully to prevent injuries from falling.

The spotlight may only be installed and secured by qualified personnel.

In case of overhead rigging, please observe the applicable standards and regulations in your country. In any case, the installation must be secured by a second independent suspension (e.g. safety net, safety rope, safety chain).



### 3. Product overview and operating elements



No.	Name	Function
1	Safety ring	Use this ring to attach a second independent suspension. (e.g. safety rope, safety chain).
2	Microphone	The input signal via the microphone influences the music control.
3	Music sensitivity control	Adjust the sensitivity of the microphone to the volume level of the environment.

4	DMX indicator	Shows whether DMX signals are received
5	Slave indicator	Shows whether the effect is operated in slave mode.
6	Auto indicator	Shows whether the effect is operating in auto mode.
7	Sound indicator	Shows whether the effect is operated with music control.
8	Display	Displays information about menu or settings.
9	Input for power cable	Connect the supplied power cord to the mains power here.
10	power connection	If necessary, connect the power cord for the next effect here.
11	DMX-Out	For connection to the next light effect
12	DMX-In	For connection to the DMX controller
13	Ventilation grille	Cooling fan

## 4. Operation

After connecting the device to the mains, it is ready for operation. The display shows the last operating mode. The operating modes can be selected via the display and the control buttons. All settings remain stored, even when the unit is disconnected from power.

### Menu structure

The operation is carried out via the keys MENU, UP, DOWN and ENTER. The display shows the respective menu or the corresponding values. Press the MENU key repeatedly until the desired selection is shown in the display. Change the values to be set with the UP or DOWN keys. Press ENTER to reach any submenus and again MENU to return to the previous menu level. Details of the individual menu items are shown in the following table.

Display Menu item	Display Values	Display Values Submenu(s)
Scroll with MENU or UP-DOWN	Enter with Enter, Exit with Menu, Change with UP-DOWN	Enter and jump to the next setting value with Enter, exit with Menu, Change with UP-DOWN
Aut (Automatic Program)	AutM Automatic -- Mix  AutP Automatics -- Derby  AutF Automatic -- Strobe	S.01-99 (running speed)
Sou. (music control)	SouM Music Control - Mix  SouP Music control - Derby  SouF Music control - Strobe	
CoL. (Color)	CoLo	r000-255 (intensity red)  G000-255 (intensity green)  b000-255 (intensity blue)  U000-255 (intensity white strobe)  P.00-99 (Pulse speed)
Str (Strobe)	Stro	St01-St18 (Strobe-Show 01-18)  P.00-99 (Strobe show speed)
dMX (DMX).	01CH 1 channel mode  04CH 4 channel mode	d001-512 (DMX-start-address)
SLA. (slave mode)	Slav (when the display flashes, there is no usable connection to the MASTER	

SYS. (System)	LEdS	Energy-saving mode On-Off
	vErS	Display of the version number
	tESt (starts test program)	
	RESt (Reset to factory setting)	Confirm with ENTER

### Stand-alone operation

This lighting effect can be operated without an external control unit. Several auto programs are available for this purpose. These are: Mix, Derby-Show and Strobe-Show, as well as the possibility of music control. In addition, you will find 18 more different strobe shows in the Strobe menu. Please refer to the table "Menu Structure" for the control of the corresponding function modes.

With the help of the "Color" settings, you can create an individual color mixture. Change the intensity of the individual colors to create the desired effect.

### Master-Slave operation

You can control another unit using a master fixture without using an external DMX controller.

1. Set all units to DMX address d001 and set the subordinate spotlight to SLAVE mode

Now connect the DMX-Out of the first fixture (master) to the DMX-In of the second fixture (slave).

All fixtures now follow the settings selected on the first fixture (master).

### Operation with external DMX controller (1-channel mode/ 4-channel mode)

Select the desired DMX mode in the menu. A four-channel mode for direct control and a one-channel mode for "remote control" of the internal automation and sound programs are available for this purpose.

To set the desired DMX addressing, enter the menu and select the first DMX channel you want to control from the controller. To operate several fixtures in parallel, use the same channel assignment for all of them. Please make sure that no other devices with one or more identical DMX addresses are connected to ensure error-free operation.

### DMX protocol 4 channel mode

Set for X your selected DMX start address.

Example: With start address 011

X=11 ... X+1= 12 ... X+2= 13 ... X+3= 14

The first three selected channels control the derby effect (channels X+1 and X+2 only show a reaction if a value is assigned to channel X) and the fourth channel controls the strobe program, which can be operated individually or in combination with the derby effect.

CHANNEL	Function	Value	Event
X	Colour adjustment	000-005 006-020 021-035 036-050 051-065 066-080 081-095 096-110 111-125 126-140 141-155 156-170 171-185 186-200 201-215 216-230 231-255	Not assigned red- green- blue- white- red/green- red/blue- red/white- green/blue- green/white- blue/white- red/green/blue- red/green/white green/blue/white red/green/blue/white Automatic (4-Color) Automatic (Single/Multi-Color)
X+1	Pulse	000-005 006-255	Pulse off pulses increasing value - increasing speed until strobe
X+2	Engine	000 001-127 128-255	Motor off Motor alignment Motor increasing value - increasing speed

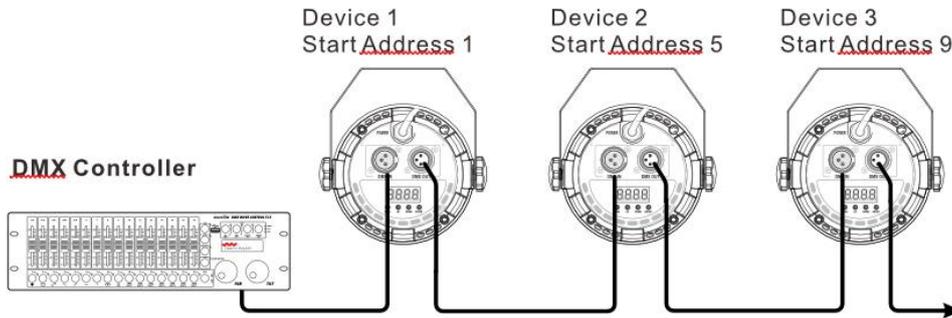
X+3	Strobe programs	000-009	Off
		010-019	Pattern1 increasing value - increasing speed
		020-029	Pattern2 increasing value - increasing speed
		030-039	Pattern3 inc. Speed
		040-049	Pattern4 inc. Speed
		050-059	Pattern5 inc. Speed
		060-069	Pattern6 inc. Speed
		070-079	Pattern7 inc. Speed
		080-089	Pattern8 inc. Speed
		090-099	Pattern9 inc. Speed
		100-109	Pattern10 inc. Speed
		110-119	Pattern11 inc. Speed
		120-129	Pattern12 inc. Speed
		130-139	Pattern13 inc. Speed
		140-149	Pattern14 inc. Speed
		150-159	Pattern15 inc. Speed
		160-169	Pattern16 inc. Speed
		170-179	Pattern17 inc. Speed
		180-255	Pattern18 inc. Speed until full light

### DMX protocol 1-channel mode

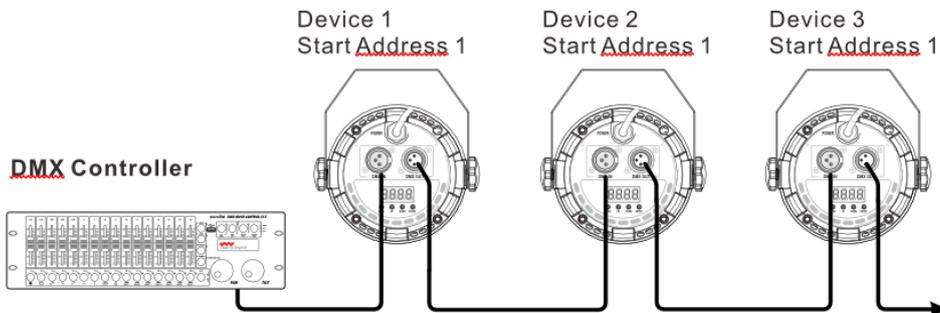
Set your selected DMX start address for X

CHANNEL	Function	Value	Event
X	Menu setting	000-009	Blackout
		010-050	AutoMix
		051-090	AutoDerby
		091-130	AutoStrobe
		131-170	SoundMix
		171-210	SoundDerby
		211-255	SoundStrobe

Use the following connection chain if you want to control several headlights individually with your controller.

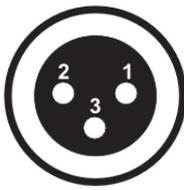


Use the following connection chain if you want to control several headlights identically with your controller.

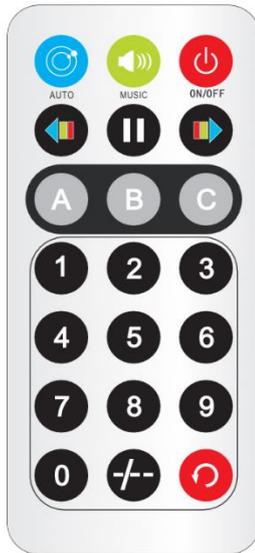


The connecting chain should not exceed a length of 300m or a number of 32 units. Use a terminating resistor at the end of the chain.

### DMX XLR pin assignment

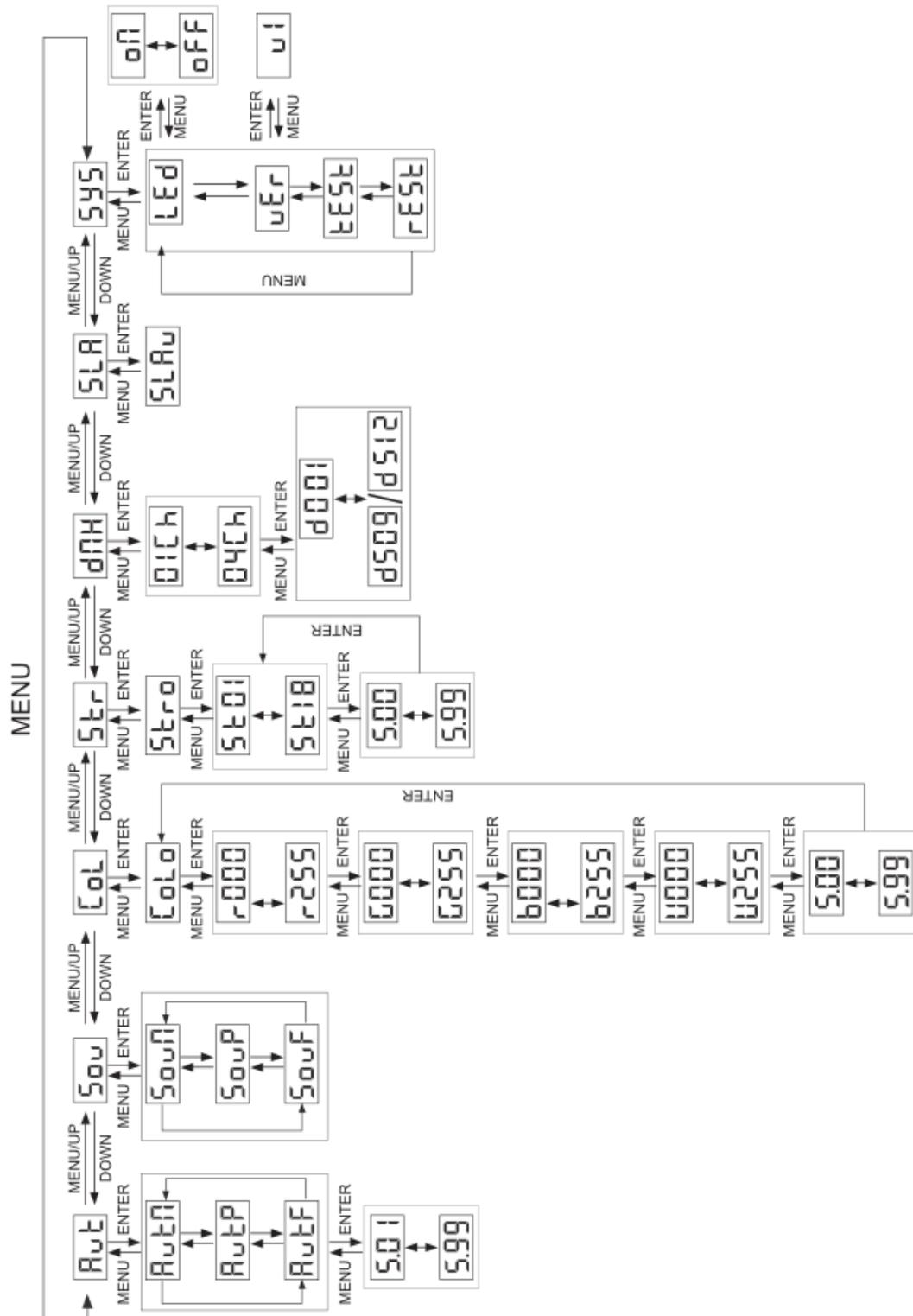
DMX-OUT XLR female	DMX-IN XLR-male
 <p>1:Ground 2:Signal(-) 3:Signal(+)</p>	 <p>1:Ground 2:Signal(-) 3:Signal(+)</p>

## IR remote control



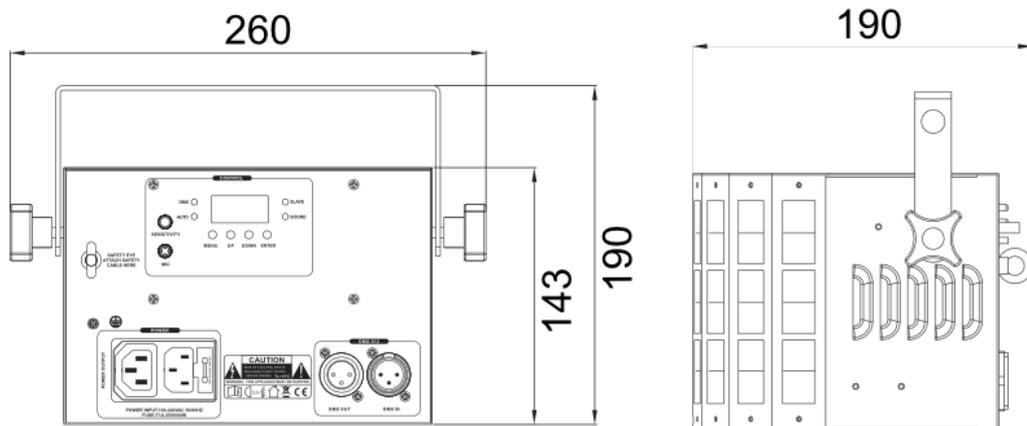
	Auto program The automatic programs are played back in random order		Speed selection The higher the number, the higher the playback speed
	Music control The automatic programs are played back in random order, controlled by music		Strobe LEDs On/Off
	Blackout		Pause
	Scroll colour samples -		Not assigned
	Scroll colour samples +		Not assigned

## 5. Menu chart:



## 6. Technical data

Article description	DS-3 Derby Strobe
LED Power	3W red + 3W green + 3W blue + 3W white + 16x0.5W strobe LED
Size in mm	190x260x190
Weight in kg	2
Power supply	AC 220-240V 50/60Hz
Power consumption	28W
Operating temperature max.	40°C
DMX	DMX-IN, DMX-OUT



## **WEEE declaration**

**(Waste of Electrical and Electronic Equipment)**

Your product has been designed and manufactured with high quality materials and components that are recyclable and can be reused.

This symbol means that electrical and electronic devices must be disposed of separately from household waste at the end of their useful life.

Please dispose of this device at your local municipal collection point or at the recycling center.

Please help preserve the environment we live in.



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