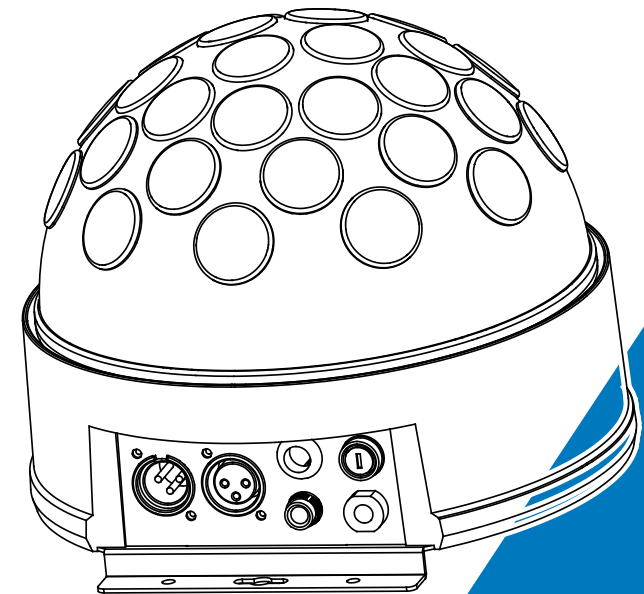




LED-256D RGBW II



Innovation, Quality, Performance

User Manual

Please read the instruction carefully before use

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Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1: 2009 ; EN55103-2: 2009; EN62471: 2008;
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

&

Harmonized Standard

EN 60598-1:2008 + All:2009; EN 60598-2-17:1989 + A2:1991;
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

7. Troubleshooting

Following are a few common problems that can occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors and cables to see if linked correctly.
2. If the DMX LED is on but no response check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems check the cables and connectors.
4. Try another DMX controller.

C. No response to the sound

1. Make sure the unit is set into the correct mode.
2. Check the microphone to see if it is good by tapping it.

8. Fixture Cleaning

The cleaning must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause a greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid or mild soapy water.
- Always dry the parts carefully.
- Clean the external optics at least every 30 days.

1. Safety Instructions



WARNING

Please read carefully the instructions which include important information about the installation, usage and maintenance.

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as they are fire hazard.
- Use safety cables when hanging this unit.
- Maximum ambient temperature is Ta: 40 degrees C. DO NOT operate it where the temperature is higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- DO NOT touch any cables during operation as high voltage may cause electric shock.

Warning:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- The housing and lenses must be replaced if they are visibly damaged.

Installation:

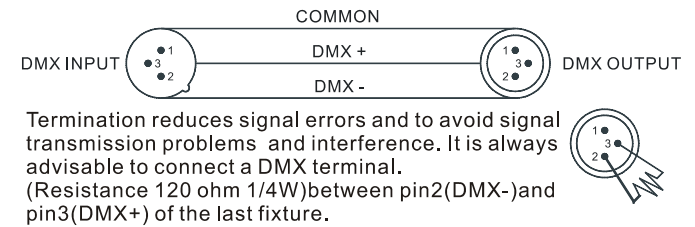
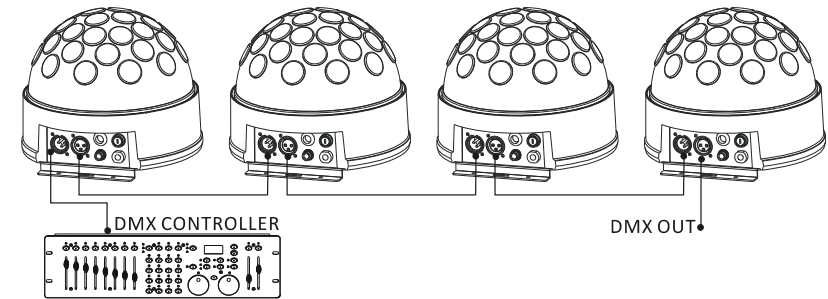
The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be installed by professionals. It must be installed in a place where is out of the reach of people and no one can pass by or under it.

2. Technical Specifications

- ◇ 3 DMX channels: Dimmer/Strobe, Color, Rotation;
 - ◇ Built-in programs in Master/Slave mode triggered by music;
 - ◇ 3 operation modes: DMX, Master/Slave, Sound Active;
 - ◇ Rotation speed and strobe speed adjustable via dip switches;
 - ◇ RGBW colour mixing technology with creative design;
 - ◇ Low heat, low power consumption, no duty cycle, runs all night;
 - ◇ Ideal for clubs, bars, discos, parties and mobile DJs
-
- ◇ **Power Voltage:** AC 100V~240V, 50/60Hz
 - ◇ **Power Consumption:** 27W
 - ◇ **LED Source:** 1 × 10W CREE Quad-Color LED
 - ◇ **Weight:** 1.8Kgs
 - ◇ **Dimension:** 220 × 214 × 180mm

6. DMX512 Connection



1. The last units DMX has to be terminated. Use a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) of a 3-pin XLR-plug and plug it in the DMX output of the last unit.
2. Connect the units together in a `daisy chain` with an XLR cable from the output of the unit to the input of the next unit. The cable can not branched or split to a `Y` cable.
3. The DMX output and input connectors are pass-through type to maintain the DMX circuit even when one of the units' power is disconnected.
4. Each unit unit needs to have an address set to receive the data sent by the controller. The address number is between 0-512 (usually 0 & 1 are equal to 1).
5. DMX cabling configuration is as follows:
3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
Pin 4/Pin 5: Not used.





3-CH mode: (Dip switch 10 OFF)

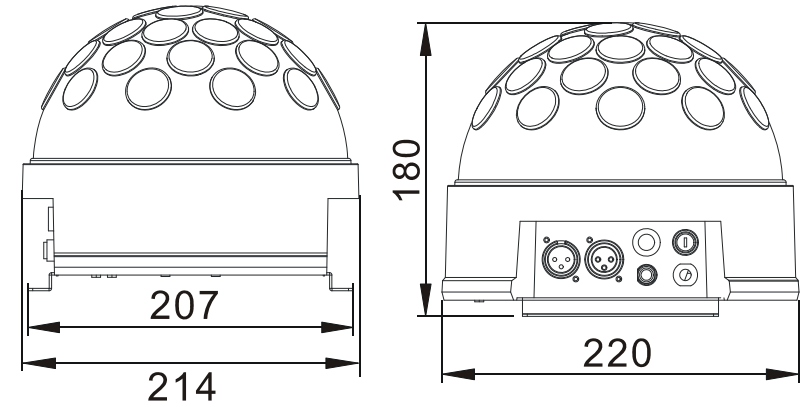
Channel 1: dip / on: #1 (=1)

Channel 4: dip / on: #3 (=4)

Channel 7: dip / on: #1, #2, #3 (1+2+4=7)






Channel 10: dip / on: #2, #4 (2+8=10)

Unit	Dip switches setting
1	ON 
2	ON 
3	ON 
4	ON 



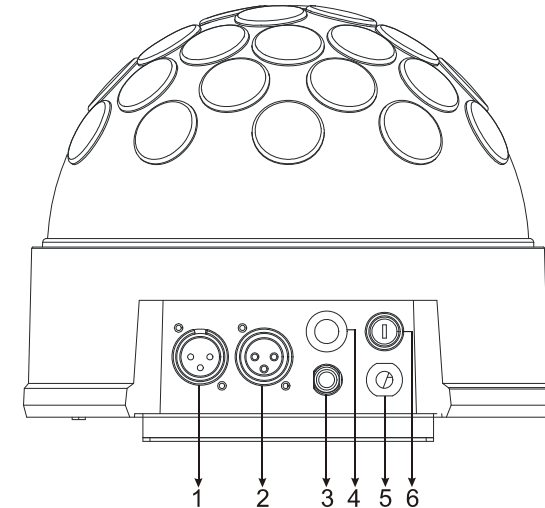
5. DMX 512 Configuration

1/3 Channels Mode:

1 Channel Mode	3 Channels Mode		
CH 1	CH 1	CH 2	CH 3
ROTATION	DIMMER/STROBE	COLOR	ROTATION
250-255 Sound Active Fast	248-255 Open ⚡	238-255 Color 15	250-255 Sound Active
140-249 	200-247 ⚡⚡	221-237 Color 14	246-249 Stop
Slow	⚡⚡⚡	204-220 Color 13	Fast
125-139 Stop		187-203 Color 12	135-245 
Slow	008-199	170-186 Color 11	Slow
015-124 	000-007 Close	153-169 Color 10	121-134 Stop
Fast		136-152 Color 9	Slow
000-014 Stop		119-135 Color 8	010-120 
		102-118 Color 7	Fast
		085-101 Color 6	000-009 Stop
		068-084 Color 5	
		051-067 Color 4	
		034-050 Color 3	
		017-033 Color 2	
		000-016 Color 1	

3. How To Set The Unit

3.1 Control Panel



- 1. DMX IN:** DMX 512 link, use a 3-pin XLR cable to link the unit to the DMX controller;
- 2. DMX OUT:** DMX 512 link, use a 3-pin XLR cable to link to the next unit;
- 3. ONLY FOR REMOTE CONTROL:** Connects with the optional CA-8 to control the unit;
- 4. MICROPHONE:** Receives music signals for sound active mode;

5. MAINS IN: Connects to power supply.

6. FUSE (T 2A): Protects the unit from over-voltage or short circuit

4. How To Control The Unit

You can operate the unit in three ways:

1. Master/slave built-in preprogram function
2. Easy controller (optional CA-8)
3. Universal DMX controller

4.1 Master/Slave Built In Preprogrammed Function

The unit can be linked together in a daisy chain with as many units as you need in master/slave mode to perform great built-in pre-programmed lighting shows triggered by the music.

In Master/Slave mode refer to the DMX settings below:

Master unit: DMX start address MUST be set to 001. (First DIP switch = ON, all other are OFF)

Slave units: DMX start address may have any value but NOT 001 (example: set the first 3 DIP switches to ON)

* Dipswitch 2 "OFF" has functions:

Performs the built-in pre-programs to the music.

* Dipswitch 2 "ON" has functions:

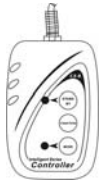
Auto mode: Eight Chases (in this mode selecting dip switch 3 will change the direction of rotation , select dip switch 4,5,6 to change the speed)

* 2-light show

Dipswitch 10 "off" means the unit works normally and "on" means inversion. In order to create a great light show, you can set dip switch 10 "on" on any unit that is linked to the master unit to get contrast movement to the master unit, even if you only have two units. Dipswitch 10 on the first (Master) unit is no use for the 2-light show as it is the master unit that operates the light show.

4.2 CA-8 Easy Controller

The CA-8 remote control is used only in master/slave mode. By connecting to the 1/4" jack socket to the first unit you will find that the remote control will control all the other units for Stand by, Function and Mode selection.



Stand by	Blackout the unit	
Function	1. Synchronous Strobe 2. Two light Strobe 3. Sound Strobe	Rotation Speed 1-8
Mode	Strobe (LED OFF)	Rotation (LED ON)

4.3 DMX Controller

When using a universal DMX controller to control the chain of units you have to set a DMX address with Dip switches 1 to 9. Dip switch 10 is used to select channel mode, ON means 1 channel mode and OFF means 3 channel mode. Please refer to the following diagram to address your DMX 512 system using binary code.

DMX 512 Address Chart:

Dip-switches	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	#10
Value	1	2	4	8	16	32	64	128	256	CH mode

◇ Examples:

1-CH mode: (Dip switch 10 ON)

Channel 1: dip / on: #1 (=1)

Channel 2: dip / on: #2 (=2)

Channel 3: dip / on: #1, #2 (1+2=3)

Channel 4: dip / on: #3 (=4)

Unit	Dip switches setting
1	↓ ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
2	↓ ON <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3	↓ ON <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
4	↓ ON <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>