SUPER NOVA

User Manual

Professional Entertainment Technology

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1. Safety Instruction

WARNING

Please read the instruction carefully which including important information about the installation, operation and maintenance.

- Please keep this User Manual 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 and 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 mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- Make sure there are not flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit.
- Maximum ambient temperature is TA: 40℃ and don't operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 60℃. Don't touch the housing bare-hand during its operation. Turn the power off and wait for 15 minutes for cool down before replacing bulb or serving.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repair carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center and always use the same type spare parts.
- Don't connect the device to any dimmer pack or power pack.
- Do not touch any wire during operation as high voltage might be causing electric shock.

2. Technical Specification

◦ Voltage: AC 100V-240V 50-60Hz

◦ 2 Channels

Channel 1 = Dimmer/Strobe

Channel 2 = Rotation

◦ It can be operated by DMX512 control or can be used as an individual unit without controller.

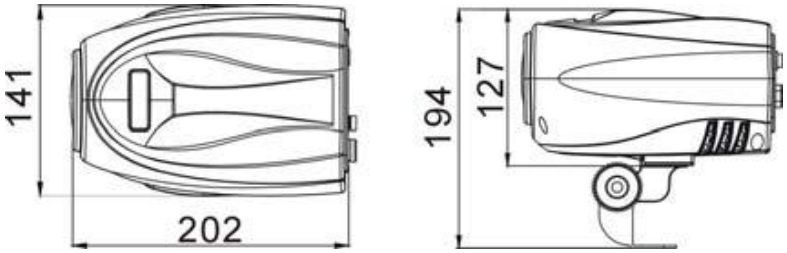
◦ It can be linked together as many as required in master/slave mode, and perform the great built-in programmed lighting shows triggered by music.

◦ Please use a 3 pin XLR cable/plug when connecting them together.

◦ Fan cooled.

◦ Dimension: 202x 141 x 194 mm

◦ Weight: 1kg



3. Installation

You can install the unit on the truss or ceiling, Use clamps to fix the unit to truss. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 kg for each unit.

4. How To Control The Unit

You can operate the unit in three ways:

1. By master/slave built-in preprogram function
2. By easy controller
3. By iLead controller (Please refer to the user guide of iLead) or universal DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will be effected at once. Every time you turn the unit on, it will show 200S on the display and move all the motors to their 'home' position and you may hear some noises for about 20 seconds. After that the unit will be ready to receive DMX signal or run the built in programs.

4.1 Master/Slave Built In Preprogrammed Function

A. Master/Slave operation

The unit can be linked together in daisy chain as many as you need in master/slave mode to perform the great built-in pre-programmed lighting shows triggered by 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 "ON" has two functions:

1. Perform the built-in pre-programmed by music.
2. Auto mode: Eight Chase(At this mode press dip switch 3 will change the direction of rotation， press dip switch 4,5,6 will change the speed)

* 2-light show

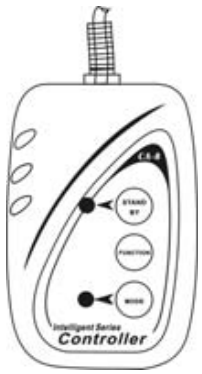
Dipswitch 10 "off" means the unit works normally and "on" means inversion. In order to create a great light show, you can set dip switch 10 "on" on any unit that is linking to the master unit to get contrast movement to the master unit, even if you have two units only. Dipswitch 10 on the first (Master)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

4.2. Easy Controller (by CA-8)

The easy remote control is used only in master/slave mode. There is a terminator for connect the easy controller inside the fixture. By connecting the cable into DMX IN waterproof cable entry gland to the CA-8 terminator of the first fixture, you will find that the

remote control on the first fixture will control all the other fixtures for Stand by, Function and Mode functions.

Stand by	Blackout the unit	
Function	1. Synchronous Strobe 2. Two light Strobe 3. Sound Strobe	Turn left and right
Mode	Sound/Strobe (LED OFF)	Rotation (LED ON)



4.3 iSolution Operation

- Consistent DMX configuration enable iMove to be linked together with iRock and iShow and controlled at the same time.
- DMX address can be set remotely by iLead controller (Please refer to the user manual of iLead controller). No need to calculate the DMX channels of each fixture in the chain.
- Automatic switching between DMX function and built-in stand alone programs.

4.4 DMX Controller

When using a universal DMX controller to control the chain of units, you have to set DMX address by Dip switches from 1 to 9 to make sure all the units will receive its DMX signal. Please refer to the following diagram to know how to address your DMX 512 system in the 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	2-light show

◦ Examples:

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

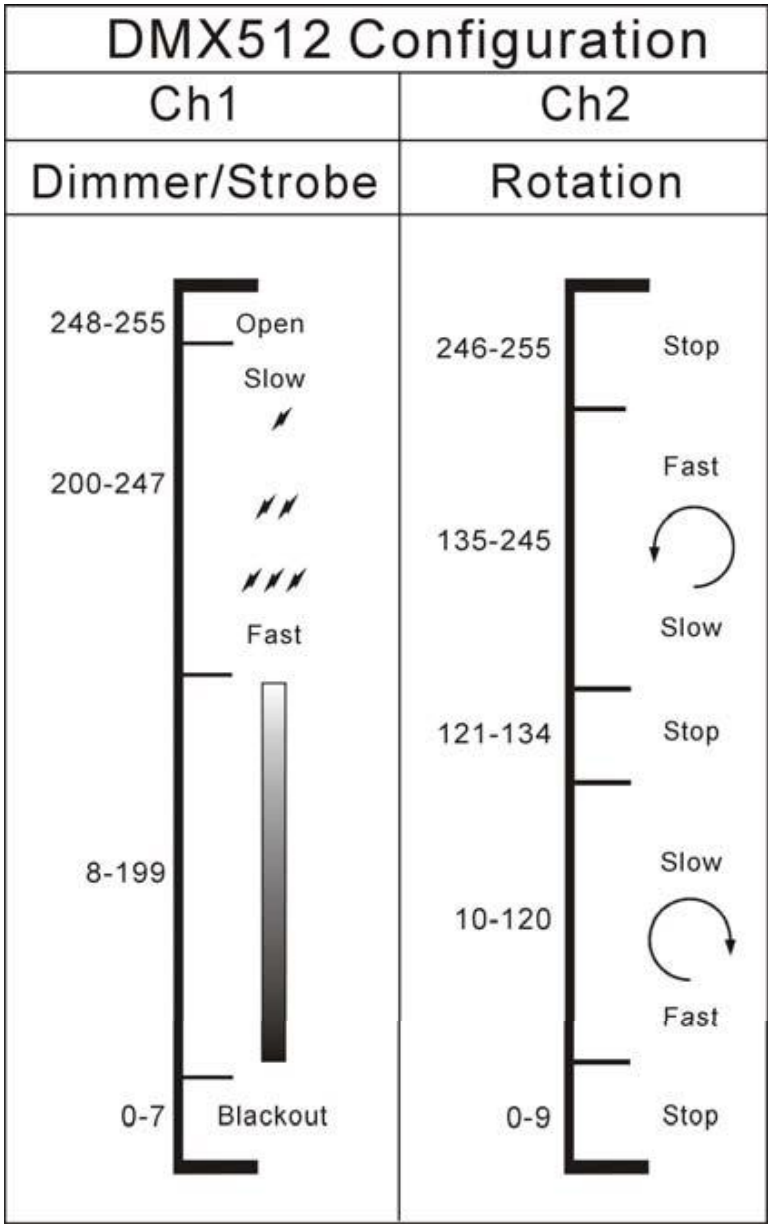
Channel 3 : dip / on: #1, #2 (1+2=3)

Channel 5 : dip / on: #1, #3 (1+4=5)

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

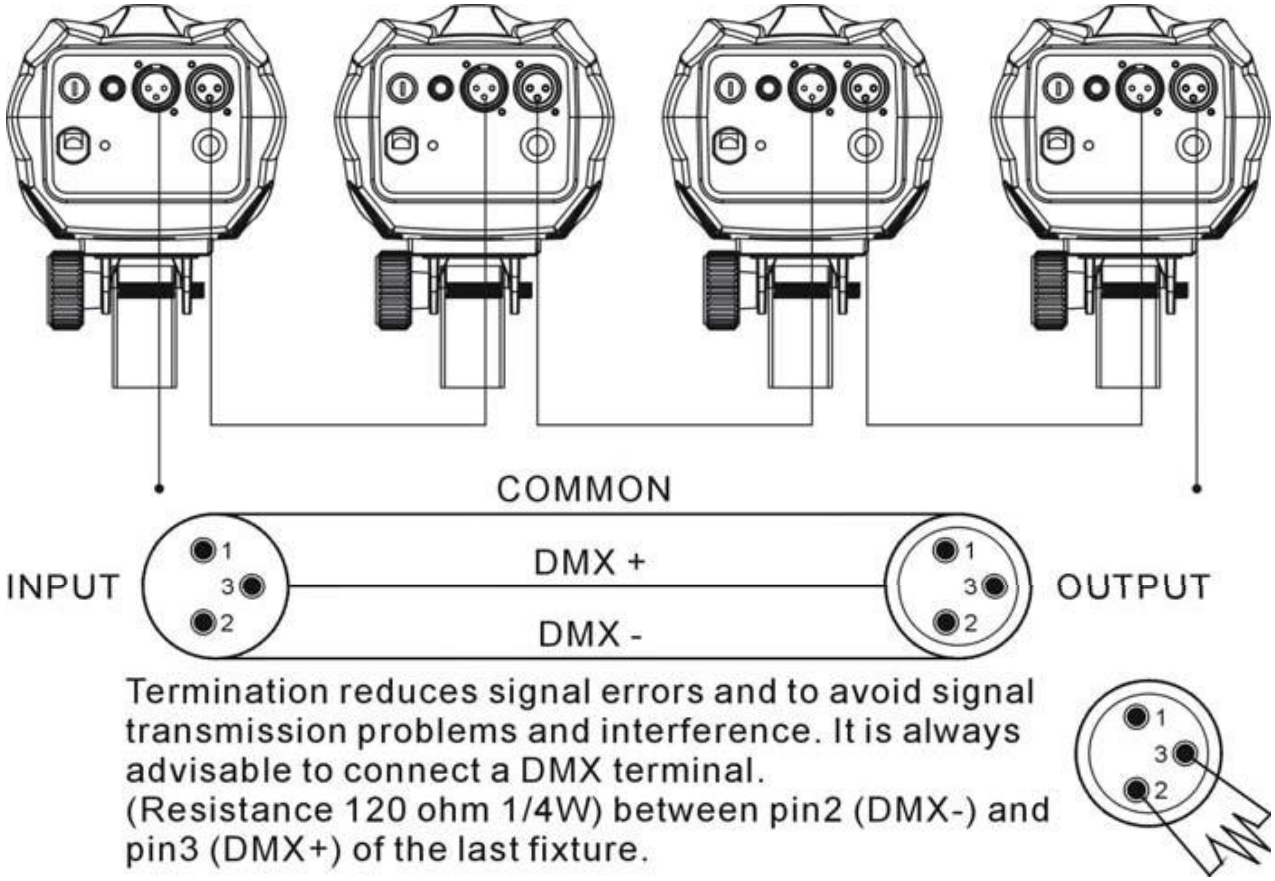
Channel	Dipswitches setting
1	ON 1 2 3 4 5 6 7 8 9 10
3	ON 1 2 3 4 5 6 7 8 9 10
5	ON 1 2 3 4 5 6 7 8 9 10
7	ON 1 2 3 4 5 6 7 8 9 10

5. DMX 512 Configuration



6. DMX 512 Connection

The DMX 512 is widely used in intelligent lightings and with a maximum of 512 channels.



1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
3. Connect the unit together in a 'daisy chain' by XLR plug from the output of the unit to the input of the next unit. The cable can not be branched or split to a 'Y' cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, solder joints or corroded connectors can easily distort the signal and shut down the system.
4. The DMX output and input connectors are pass-through to maintain the DMX circuit, when power is connected to the unit.
5. Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
6. The end of the DMX 512 system should be terminated to reduce signal errors.
7. 3 pin XLR connectors are more popular than 5 pin XLR.
   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
   5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

7. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors 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 greater accumulation of dirt on the unit’s optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

EC - 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.

EN55014-2: 1997 A1: 2001, EN61000-4-2: 1995; EN61000-4-3: 2002; EN61000-4-4: 1995; EN61000-4-5: 1995, EN61000-4-6: 1996, EN61000-4-11: 1994.

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Harmonized Standard

EN60598-1: 2000+ALL: 2000+A12: 2002

Safety of household and similar electrical appliances

Part 1: General requirements

Innovation, Quality, Performance