

STAIRVILLE

DJ LASE GR-140 **RGY** DMX
GRATING EFFECT LASER

User Manual

Thank you for using the Stairville DJLase series laser projector. For the sake of safety and better operation of this projector, please read this manual carefully before use and operate the projector, lest incur any personal injury or damage to the projector.

Please check the local Laser assignments in your country before starting the Laser Show!!!

●Package list:

When you unpack the case , please take time to examine the items as follow:

- 1 pcs. Stairville DJLase GR-140 RGY DMX
- 1 pcs. Power cord 1
- 1 pcs. Owners manual

●Product Introduction:

The RED/GREEN FLYSTARS series projector adopts the latest appearance design to make it compact and light. The housing uses imported paint. It has full solid semiconductor laser source. Wavelength is 532nm、emerald green color and 650nm、red color. Laser generator is double-temperature -controlled power supply. The laser light source has a long life span and highly stability, complying with the international standard.

Safety function : By slave and DMX 512 control mode, the laser was shut off 5 seconds after it do not receive any signal. By sound control mode, the laser was shut off 15 seconds after music stop.

Control modes: DMX-512 signal control and music control, master and slave,
RED/GREEN FLYSTARS series laser projector was applied for the place of public entertainment such as disco, night club and theater etc.

● function introduction :

The DJLase can generate many different effects.

- 1 Laser beam effect. Abundance laser patterns and single color or double colors or three colors laser performance. Red and green laser points are more than 200, the reflection angel is bigger than 70 degree.
- 2 Grating effect. Selecting position of the grating can generate different laser points and laser beams; adjusting speed of grating can meet requirement of different places.
- 3 Strobe effect and color control. Through adjusting speed of the laser strobe and color control, generate different effects just like twinkle star.

Remark: Please read the user manual carefully and choose the right function control mode so that you can get the best laser performance.

● Instructions

After unpacking, check whether the projector has been damaged by transport such as any screw loosening, reflecting mirror broken, etc. If everything is OK, select a proper location, hang the projector and adjust its angle properly, then connect the power cord and the ground wire before switch on at the means. Notice that while using this projector the green and yellow wire has to connect the ground properly by professionals. Please examine the electrics and voltage before power on it. We suggest customer apply 220V or a transformer. 20 seconds after powered on the projector, it will self-check and then can be used.

Owing to the radiate laser generator `s own characteristic and for the laser `s long life span, please terminate it for 10 minutes after using it for 30 minutes.

Avoid being interfered by other signals while using the DMX-512 signal controller.

● **Technical Parameters :**

Rated voltage: AC110V /AC230V ±10%

Rated frequency: 50HZ~60HZ

Power consumption: ≤15w

Laser wavelength : 25— 120mW/532nm、 100mW/650nm

Laser source: solid semiconductor laser generator

Color: emerald green, red

Control channel: 5CHs

Control mode: music control or DMX-512 signal control, master and slave, automatically run.

Cool system: fan

Operating environment: indoor

This DJLase GR-140 RGY DMX has controlled by on/off switch address code. 10 is the exchange switch of sound activated control and DMX512 signal control. Please find details as follow:

mode		Control switch (ON)
1	DMX-512 control	10:OFF
2	Single projector controlled by sound	1—9:OFF, 10:ON
3	Automatically run	1:ON、 10:ON
4	Master projector controlled by sound	1—9: OFF、 10 : ON
5	Master projector by automatically run	1 : ON、 10 : ON
6	Slave projector	2 : ON、 10 : ON

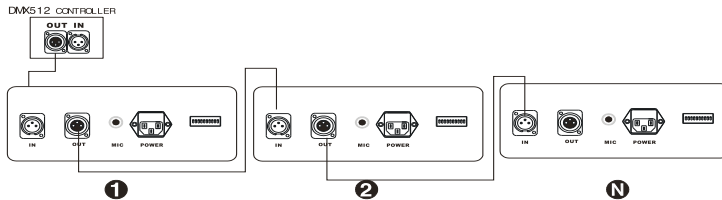
● **DMX-512 function :**

The DJLase GR-140 RGY DMX adopt international standard DMX-512 signal. It has 5 control channels. The details of DMX-512 signal control mode address switch as follow:

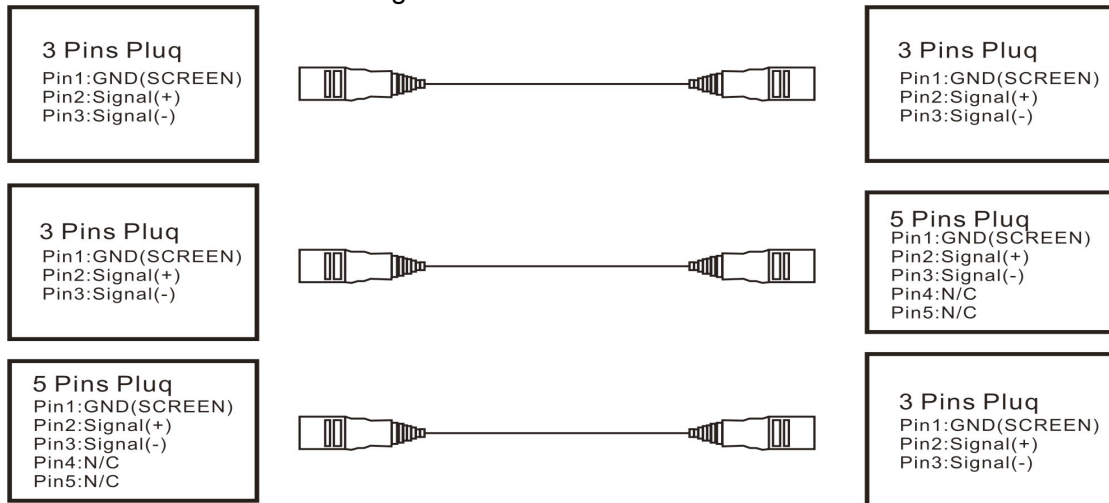
channel		Numerical Value of DMX-512:0~255	Controlling Objectives
CH1	Control mode selection	0~50	Laser shut off
		51~101	DMX-512 mode control
		102~152	DMX-512 automatically run mode
		153~255	DMX-512 sound control mode
CH2	Grating effect selection	0~224	Grating position selection
		225~240	Grating clockwise rotation
		241~255	Grating anti-clockwise rotation
CH3	Moving speed adjustment	0~255	Moving speed selection
CH4	Strobe speed adjustment	0~255	Strobe speed selection
CH5	Color selection	0~255	6 color effect selection

●Signal Connection and Address Code Dialing

When the controller transmits DMX512 standard signals, the connection of which is accomplished through the “input” and “output” 3-pin XLR socket. When a console signal outputs to the unit, it must correspond to the Pin 1 Ground, Pin 2 Positive and Pin 3 Negative of the XLR socket on the unit. If it does not work just try exchanging the Pin 2 and Pin 3 (these 2 pins are generally do not need exchanged for consoles). The signal wire length should not exceed 100m in order to avoid the interference of the other signals by any other electric appliances.



If your DMX-512signal controller adopt 5 pins XLR plug, you need one transfer line, the transfer method as following:



When control signals from the console inputs into DJLase GR-140 RGY DMX laser light projector. The projector must be assigned a data start address code, so that a unit may act on the corresponding control signal. Thus, when any controller is used, every unit must have its own data start address Accordingly, the address of the first unit is set as 1, the second unit has also 5 channels, so its address code is 6, the third unit is set at 11, so on and so forth (the setting method will also depend on the specific console, the above is just for general cases).

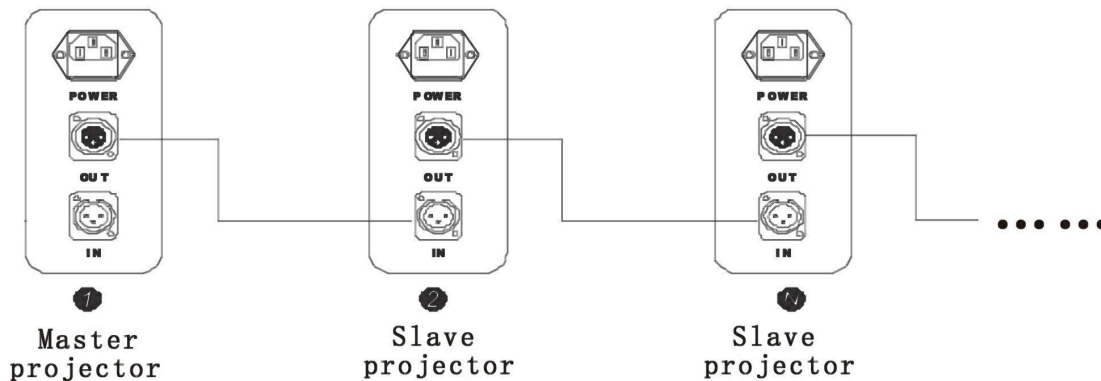
The details of DMX-512 signal control mode address switch as follow:

Lamp no	Start address	Control switch (ON)
1	1	1
2	6	2、3
3	11	1、2、4
4	16	5
5	21	1、3、5
6	26	2、4、5
7	31	1、2、3、4、5
8	36	3、6
9	41	1、4、6
10	46	2、3、4、6
⋮	⋮	⋮

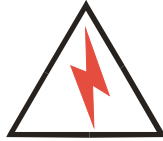
Remark about master and slave

- 1、 When a projector is set as a master, it has DMX-512 signal, therefore, it can not be connected with DMX console. Otherwise, they will interfere each other.
- 2 Only one projector can be a master, the others should be slaves when many projectors work synchronize.

Master and Slave connect way:



● **Safety marks:**



- Before maintenances, please refer to eligible personnel.
- Please make sure to switch off the power before installation or maintenance.
- Please do not use power and lasers that do not conform to the current specifications.
- Please do not see the laser light directly, in case it might damage the eyes.
- Avoid electric shock! Bulb overheating;
- Do not use any power voltage and light type of different specifications
- Do not expose to the laser light outside.
- Do not use it frequently under the humid atmosphere.
- Keep the reflecting mirror clean and dry.

● **Maintenance:**

It is very important to keep the DJLase GR-140 RGY DMX laser light clean, therefore please clean reflector lens monthly to keep the lights away from dust, dirt or fog juice. We suggest that clean the light with professional glass cleaning lotion and downy cloth. Keep the light clean regularly will not only maintain the maximum laser output brightness but also will extend the life span of the laser.

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