

F8 Series Animated Laser Beam User Manual



Thank you for purchasing this product. Please read all the safety and operations instructions carefully before using the product. Keep this manual for future reference. This product can create perfect laser programs and effects since it has passed a series of strictly tests before delivery. Please check the attachments listed on this page after opening the carton. If carton damaged or attachment missed in transit, please contact your dealer or our after sales service department.

● **Package list:**

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

- RGB animation laser projector 1 pcs
- Power cord 1 pcs
- User manual 1 pcs

● **Notice:**

1. Avoid direct eye exposure to laser beam. Never intentionally expose your eye or others to direct laser beam. It can potentially cause instant eye injury or blindness if laser beam striking directly to eyes.
2. Don't point onto any oncoming pedestrians, vehicles or traffic routes from land, sea or air.
3. Don't project at or within the flight path of aircraft. If your intended surface is within 10 nautical miles of airport, lower the angle of light so that no lasers pointing into the sky.
4. Don't turn on and off the unit frequently.
5. Before using this unit makes sure the power supply is ground.
6. Use cleaning tissue to remove the dust absorbed on the external lenses periodically to optimize light output.
7. Don't set the scanner speed beyond the the real scanner speed of the fixtures while control the laser via any software.
8. Only the qualified person can do the electrical installation and repair job in accordance with all applicable codes and standards.

● **Technical Parameters:**

Input power: AC90-240, 50-60HZ

Rated power: <200W

Laser power: RGB1-5W

Laser category: pure solid-state semiconductor laser, with high stability and long life.

Laser modulation: analog modulation or TTL modulation

The beam diameter of the laser exit port: <6mm

Laser beam divergence angle: <1.6mrad

Laser wavelength: red light 638±5nm, green light 525±5nm, blue light 450±5nm

Vibration mirror scanning system: 15KPPS galvanometer

Sweep angle of galvanometer: ±25°; input signal ±5V; linear distortion <2%

Laser pattern: 128 patterns and animations are built-in on the motherboard.

Control mode: ILDA standard computer laser software/DMX512/sound control/self-propelled/master-slave

Control interface: International ILDA DB25 interface (for an optional function, the cost increases by RMB50), which can be connected to general laser software such as Pangolin, and the international general DMX512 interface.

DMX channel: 6/25CH

DMX special effects: pen break, strobe, rotate, move, roll, split image, draw gradually, change color, change size, etc.

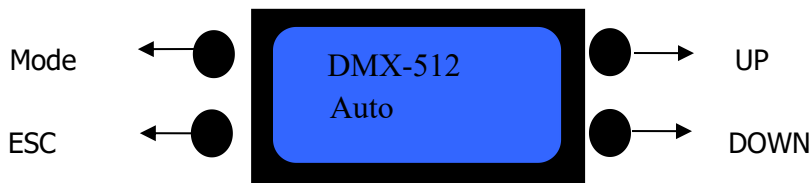
Suitable places: small and medium-sized performances, bars and other places

Working environment: indoor (minus 10 to minus 35 degrees)



Warning!!!! Do not look directly at the light beam at close range to avoid eye damage!

● **LCD display panel:**



Using touch keys and LCD Menu display, it is easy to use menu operation .The automatic loading system software ,after which will show software version .

Through the UP and DOWN key to select the function. The Mode Key is to determine the functions. Press ESC keys is to return to the level menu.

● **LCD function menu setting**

| Level 1 menu | Level 2 menu | Level 3 menu |
|---------------------------------------|---|--------------|
| 1、 DMX-512 DMX-512-function | Running (running DMX-512 function) | |
| | A001 (light address code) | |
| 2、 Auto (Automatic function) | Running (automatic function) | |
| | Effect1、 2、 3 (Selecting Effect 1,2,3) | |
| 3、 Music (Music control function) | Running (Running sound function) | |
| | Effect1、 2、 3 (Selecting Effect 1,2,3) | |
| 4、 Testing Testing function | Running (Running Testing function) | |
| | Test 1、 2、 3 Select Testing pattern | |
| 5、 Setting | 1、 Address | Address |

| | | |
|---|--|--|
| (Setting function) | (Address setting) | 001 address code |
| | 2、 Light (Background light setting) | 1、 ON 2、 ON 5S |
| | 3、 One Beam One beam protect setting | 1、 OFF 2、 ON |
| | 4、 Master (Master setting) | 1、 OFF 2、 ON |
| | 5、 Channel Channel setting | 1、 12CH 2、 25CH |
| | 6、 Default (Recover the default setting) | 1、 Yes 2、 No |
| | After selecting yes: 1: Auto-Effect1 2: Address-001Light-ON 5S、 One Beam-ON、 Master-ON、 Channel-12CH、 3: Size-128、 Color-RGB、 Invert X-No、 Invert Y-No | |
| 6、 Laser technical parameters setting | 1、 Size (Laser scanning range setting) | Setting size parameter 128 |
| | 2、 Color (Laser Color setting) | 1、 Single 2、 RGY 3、 RBP 4、 GBA 5、 RGB 6、 WYAP Choose color |
| | 3、 Invert X Opposition X | 1、 Yes 2、 No |
| | 4、 Invert Y Opposition Y | 1、 Yes 2、 No |

三、●12 Channel functions::

| Channel | | DMX-512 numerical value | Controlling |
|---------|----------------------------|-------------------------------|--------------------------------|
| CH1 | Laser off | 0~41 | laser off |
| | Automatic | 42~83 | manual control |
| | | 84~125 | running animation effect |
| | | 126~167 | running light beam effect |
| | Music Control | 168~209 | running light beam effect |
| | | 210~251 | running animation effect |
| 252~255 | | manual control | |
| CH2 | Pattern group selecting | 0~255 | one Pattern group per 32 value |

| | | | |
|------|------------------------------|---------|---|
| CH3 | Pattern setting | 0~255 | one pattern per16 value |
| CH4 | Pattern rotation | 1~127 | Rotation angle selection |
| | | 128~191 | speed adjustment in reverse rotation |
| | | 192~255 | speed adjustment in positive rotation |
| CH5 | Patterns horizontal rotation | 1~127 | Horizontal rotation selection in position |
| | | 128~255 | Horizontal rotation selection in speed |
| CH6 | Patterns vertical rotation | 1~127 | Vertical rotation selection in position |
| | | 128~255 | Vertical rotation selection in speed |
| CH7 | Pattern horizontal move | 1~127 | Horizontal move selection in position |
| | | 128~255 | Horizontal move selection in speed |
| CH8 | Pattern vertical move | 1~127 | vertical move selection in position |
| | | 128~255 | vertical moving selection in speed |
| CH9 | Pattern scaling | 0~63 | pattern size selection |
| | | 64~127 | Reduce speed selection |
| | | 128~191 | Zoom in speed selection |
| | | 192~255 | zoom speed selection |
| CH10 | Pattern gradually drawing 一 | 1~127 | Adjustment in gradually drawing speed |
| | Pattern gradually drawing 二 | 128~255 | |
| CH11 | Scanning speed | 0~127 | Adjustment in scanning speed |
| | Point effect | 128~255 | |
| CH12 | Color mode | 0~63 | Fixed color selection |
| | | 64~127 | Speed selection in Color change effect |
| | | 128~191 | Speed selection in flowing Water effect |
| | | 192~255 | Speed selection in gradually drawing |

四、●25 Channel functions::

| Channel | | DMX-512 numerical value | Controlling |
|---------|---------------------------|-------------------------|--------------------------------|
| CH1 | Laser off | 0~41 | Laser off |
| | Automatic | 42~83 | manual control |
| | | 84~125 | running animation effect |
| | | 126~167 | running light beam effect |
| | Music Control | 168~209 | running light beam effect |
| | | 210~251 | running animation effect |
| 252~255 | | manual control | |
| CH2 | Pattern A group selecting | 0~255 | one Pattern group per 32 value |

| | | | |
|------|-------------------------------------|---------|--|
| CH3 | Group A Patterns selecting | 0~255 | one pattern per16 value |
| CH4 | Group A Patterns rotation | 1~127 | Rotation angle selection |
| | | 128~191 | speed adjustment in reverse rotation |
| | | 192~255 | speed adjustment in positive rotation |
| CH5 | Group A Pattern horizontal rotation | 1~127 | Horizontal rotation selection in position |
| | | 128~255 | Horizontal rotation selection in speed |
| CH6 | Group A Patterns vertical rotation | 1~127 | Vertical rotation selection in position |
| | | 128~255 | Vertical rotation selection in speed |
| CH7 | Group A Patterns horizontal move | 1~127 | Horizontal move selection in position |
| | | 128~255 | Horizontal move selection in speed |
| CH8 | Group A patterns vertical move | 1~127 | vertical move selection in position |
| | | 128~255 | Vertical move selection in speed |
| CH9 | Group A Pattern size | 1~63 | Pattern size selection |
| | | 64~127 | Reduce speed selection |
| | Group A patterns scaling | 128~191 | Zoom in speed selection |
| | | 192~255 | zoom speed selection |
| CH10 | Group A Pattern gradually drawing 一 | 1~127 | Adjustment in gradually drawing speed |
| | Group A Pattern gradually drawing 二 | 128~255 | |
| CH11 | Group A Scanning speed | 0~127 | Adjustment in scanning speed |
| | Group A Point effect | 128~255 | |
| CH12 | Group A Color mode | 0~63 | Fixed color selection |
| | | 64~127 | Speed selection in Color change effect |
| | | 128~191 | Speed selection in flowing Water effect |
| | | 192~255 | Speed selection in gradually drawing |
| CH13 | Group A Biggest pattern | 0~255 | zoom adjustment is the biggest pattern , and selection from big to small |
| CH14 | Pattern B group selecting | 0~255 | one Pattern group per 32 value |
| CH15 | Group B Patterns selecting | 0~255 | one pattern per16 value |
| CH16 | Group B Patterns rotation | 1~127 | Rotation angle selection |
| | | 128~191 | speed adjustment in reverse rotation |
| | | 192~255 | speed adjustment in positive rotation |
| CH17 | Group B Pattern horizontal rotation | 1~127 | Horizontal rotation selection in position |
| | | 128~255 | Horizontal rotation selection in speed |
| CH18 | Group B Patterns vertical rotation | 1~127 | Vertical rotation selection in position |
| | | 128~255 | Vertical rotation selection in speed |
| CH19 | Group B Patterns horizontal move | 1~127 | Horizontal move selection in position |
| | | 128~255 | Horizontal move selection in speed |

| | | | |
|------|-------------------------------------|---------|--|
| CH20 | Group B patterns vertical move | 1~127 | vertical move selection in position |
| | | 128~255 | Vertical move selection in speed |
| CH21 | Group B Pattern size | 0~63 | Pattern size selection |
| | Group B patterns scaling | 64~127 | Reduce speed selection |
| | | 128~191 | Zoom in speed selection |
| | | 192~255 | zoom speed selection |
| CH22 | Group B Pattern gradually drawing 一 | 0~127 | Adjustment in gradually drawing speed |
| | Group B Pattern gradually drawing 二 | 128~255 | |
| CH23 | Group B scanning speed | 0~127 | Adjustment in scanning speed |
| | Group B Point effect | 128~255 | |
| CH24 | Group B Color mode | 0~63 | Fixed color selection |
| | | 64~127 | Speed selection in Color change effect |
| | | 128~191 | Speed selection in flowing Water effect |
| | | 192~255 | Speed selection in gradually drawing |
| CH25 | Group B Biggest pattern | 0~255 | zoom adjustment is the biggest pattern , and selection from big to small |

● **Maintenance**

It is very important to keep the RGB Animation laser light clean, therefore please clean Dust-proof glass monthly to keep the lights away from dust, dirt or fog juice.