

User Manual

RGB full color 1W3D Show animation laser light



Thank you very much for your purchase of RGB 4 in the first 5 color laser performance, to your personal safety and better use of the product, please read this manual carefully before using, and according to the rules of operation, in order to avoid misuse and damage of personal safety and lamps and lanterns .

Packing list:

Open the laser performance device packaging box after you please check the following items:

- • • • full color animation laser performance device set
- • • • full color animation laser performance device power line and signal wire
- • • • full color animation laser performance device using a manual

● Introduction the products and functional effect:

- Full color animation series laser performance device light source with semiconductor laser generator using standard international laser generator, laser light source, long service life, high stability
- Effect: built in 128 frame of laser performance pattern new effect: pattern laser performance animation and geometric beam effect, can be customized text / name and festive cartoon pattern, Chinese / English romantic show effect, the laser performance has the effect of spatial effect, projection, laser light, laser stroboscopic effect, effect the space shuttle effect, 3D laser effect the latest.
- The classical effect: beam optical, shine, rotation, zoom, and space-time tunnel, three-dimensional laser effect.
- This product with other laser software computer ILDA interface signal, through software design and programming performance animation design / program type!

● Technical parameters:

Rated voltage: AC110-220V

Rated frequency: 50 ~ 60Hz

Rated power: 90W

Laser power: RGB 1W

Laser light source: the green G 100MW/532NM red R 450MW/638NM Blue ray B500MW/447NM

Laser pattern: 128 laser animation pattern (built-in: animation design and geometric lines of 2 groups of pattern effect)

Modulation signal: TTL modulation

Laser color: RGB full color

Scanning galvanometer scanning system: 20KPPS

The scanning angle: plus or minus 20 degrees

Control mode: DMX512, voice, walk, computer ILDA interface

Control channels: 12 channels of DMX512

Cooling: forced cooling fan

Working environment: Indoor

Packing size:

Inside the package box: 35X28X20CM

Outer packing: 59X37X43.5CM 4pcs

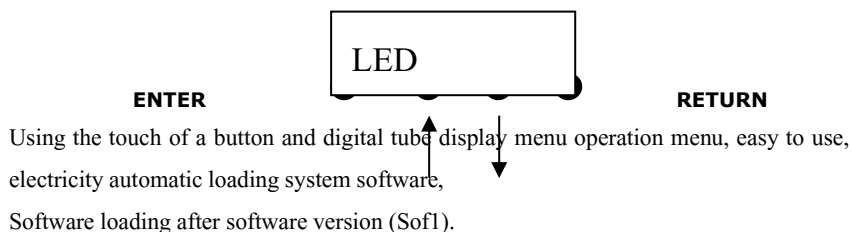
Net weight: 3.2KG

Gross weight: 4KG

● Channel function:

Welcome to use the embedded system software, software version VER1.0.

●LED digital display panel.



Through the UP, DOWN button to select the required function.

By the ENTER key to determine the selection function.

Through to return to the previous menu. (select the menu function, general is according to one or more of the exit key,

Then select the next key into the function selection)

●The LCD menu settings:

| Menu display | To enter the menu | Enter the settings menu Menu operation |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display: A.YES Run the DMX-512 function (according to one or more RETURN button to select the A-no press ENTER key to determine) | A0.01 Light Address | The A0.01-A05.12 address settings: such as A001 to A002, in to display the A001 menu, select UP, DOWN key to determine pressing ENTER D-SE, select the A-DES ENTER button press OK, select UP, DOWN requires numerical determined according to ENTER buttons! |
| Display B.YES Run the self walking function Auto(according to one or more RETURN button to select the B-no ENTER button press OK) | EF.F1-3 (3self-propelled pattern effect can be selected) Select EF.F 1 (animation and geometric patterns together according to the order of Arts) Select EF.F 2 (geometric) Select EF.F 3 | B.YES menu has 3 patterns: according to one or more RETURN button to select the B-no determined by the ENTER button to display the BYES, determined that EF.F 1 UP, DOWN key press ENTER button, see numerical automatic display and playback pattern effect (software will automatically remember the current function, switch off automatically after running the state menu functions) |

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| | (animated) | | |
| Display C.YES Run command functions Music (according to one or more RETURN button to select the C-no ENTER button press OK) | Voice activated EF.F1-3 (3 self-propelled pattern effect can be selected) Select EF.F 1 (animation and geometric patterns together according to the order of Arts) Select EF.F 2 (geometric) Select EF.F 3 (animated) | C.YES menu has 3 patterns: according to one or more RETURN button to select the C-no determined by the ENTER button to display the CYES, determined that EF.F 1 UP, DOWN key press ENTER button, see numerical automatic display and playback pattern effect (software will automatically remember the current function, switch off automatically after running the state menu functions) | |
| Display D-SE The main menu function set Setting: (according to one or more RETURN | 1.ADES (Address) Address code setting | A001 Light Address | |
| | 2.L-H- (Light) Screen background lights set | --on Chang Liang -10S | |

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|---------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| button to select the D-SE ENTER button press OK) | 3.CAON (Cartoon) Animation settings | CA95 Speed | |
| | 4.ASE- (Master) Host settings | -YES --no | |
| | 5.LASE (LASER) Lamp parameter | 1、 S--E (Size) Scan size lamp set | S 0-128 : Set the size of the pattern parameters |
| | | 2、 CO.LO (Color) Laser light performance color settings | CO.L1-4: 1.Single 2.RGY 3.RGB 4.RGP |
| | 6.DEFA (Default) Restore default settings | When the lamp is crashed or slow response, operation mode adjustment disorder, or 512 address setting error can be used to restore function, restore default settings, reset | |

DMX-512 Channel description:

| Channel | | Channel value | DMX Control content |
|----------------|----------------------|----------------------|----------------------------------------------|
| CH1 | Laser lamp light | 0～41 | Laser lamp light does not demonstrate effect |
| | Effect of laser beam | 42～83 | Manual control (CH2-CH12 control) |

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|-----|--------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------|
| | automatic operation performance pattern | 84～125 | Self run built-in animation effects |
| | | 126～167 | Self run built-in geometric effect (CH2-CH12channel control is invalid) |
| | Acoustic music trigger performance pattern beam effect | 168～209 | Voice trigger operation built-in geometric line beam effect (CH2-CH12 channel control is invalid) |
| | | 210～251 | Voice trigger operation built-in animation effects (CH2-CH12 channel control is invalid) |
| | | 252～255 | The built-in voice trigger operation pattern effect manual control (can choose CH2-CH12 channel control pattern effect) |
| CH2 | The pattern selection | 0～255 | The built-in pattern selection |
| CH3 | Rotation pattern | 0～127 | The rotation angle selection |
| | | 128～191 | Reverse rotation speed selection |
| | | 192～255 | The positive phase rotation speed selection |
| CH4 | Pattern Flip Horizontal | 0～127 | Flip horizontal position selection |
| | | 128～255 | Flip horizontal speed selection |
| CH5 | Pattern flip vertical | 0～127 | Flip vertical position selection |
| | | 128～255 | Flip vertical velocity selection |

| | | | |
|------|--------------------------------|---------|---------------------------------------|
| CH6 | Pattern of horizontal movement | 0~127 | Horizontal mobile location selection |
| | | 128~255 | The horizontal moving speed selection |
| CH7 | The vertical movement pattern | 0~127 | Vertical mobile location selection |
| | | 128~255 | Vertical movement velocity |
| CH8 | Pattern size | 0~63 | Size of the pattern choice |
| | Pattern of China " | 64~127 | Choose from high to low speed |
| | | 128~191 | From small to large speed selection |
| | | 192~255 | Zoom speed |
| CH9 | Pattern gradually drawing | 0~255 | Gradually drawing speed selection |
| CH10 | Scanning speed | 0~127 | Scan speed |
| | Point effect | 128~255 | The pattern is selected |
| CH11 | Color mode | 0~24 | Fixed color |
| | | 25~199 | Color selection |
| | | 200~224 | Color change effect |

| | | | |
|------|----------------|---------|-------------------------------------------------------------------------------------------------|
| | | 225~255 | Water color change effect |
| CH12 | Color velocity | 0~255 | From slow to fast adjusting color changing speed (used in conjunction with the CH11 channel) |

●Signal connection and address dialing method:

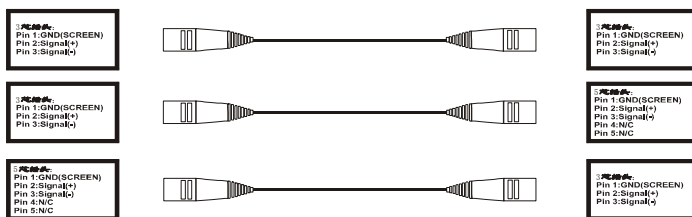
The controller has DMX512 standard signal output. Connection is through the "input" and "output" of 3 for XLR complete. Control console

Signal to the lamp must be corresponding lamps 3 pin XLR seat: 1 feet, 2 feet, 3 feet of negative, positive; otherwise the 2 and 3 (a swap

Like the console are not on the two foot). The signal line length should be within 100M, prevent the signal line is too long to be interfered by other appliances.

This product adopts 3 core XLR socket (head), the following connection method for multiple:

If the DMX-512 signal your console is the 5 core XLR socket (head), you must use the 1 from the 5 core to 3 core wire, concrete translation method as shown below:



When the console control signal input to the full color animation laser performance device, all full color animation laser performance device must first set address code. In order to

Role of the corresponding control signal. So, when using any controller, each lamp must have its own address code. So, in the

The first lamp address is set to 1, second sets of lamps address code is set to 13 (the first lamp address codes 1 and 12 channel),

Third table lamps set in position 25. And so on (this setting is required according to control different set, now only with common people).

The specific DMX-512 signal control mode of address code switch is arranged as below:

| The lights | The starting address | Digital display (ON) |
|-------------------|-----------------------------|-----------------------------|
| 1 | 1 | A0.01 |
| 2 | 13 | A0.13 |
| 3 | 25 | A0.25 |
| ⋮ | ⋮ | ⋮ |

ILDA interface control method using the function mode:

The ILDA interface signal line access standard automatically switch to ILDA interface control mode.

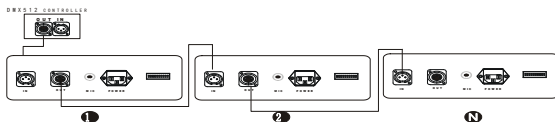
Note: disconnect the power first, then plug the ILDA interface signal lines, so as not to damage the lamp.

Master slave synchronization function matters needing attention:

1, As the host, the lamp will send DMX-512 signals, you cannot connect to the DMX-512 console, otherwise it will interfere with each other, not synchronous operation.

2, A plurality of lamp master-slave synchronous operation, of which only a mainframe, the other from the machine. Not synchronous operation.

Master slave synchronization connection diagram as follows:



●Safety instructions:



! The lighting in the installation and repair of, please confirm the lamp power off.

! Please ensure smooth lamp fan outlet and the surrounding environment with good ventilation. Do not long-term use of this product in a humid environment.

! The lamps in the indoor use or repair please stop lamp contact water, if used for outdoor, please do waterproofing measures.

! Installation, operation and repair personnel must be familiar with the performance of light before the operation, otherwise it will damage the lamp.

! Please do not use different specifications of the power supply voltage and a laser generator.

! Do not look directly at the laser light source, so as not to damage the eyes.

! Do not use the jitter of the product.

●Maintenance:

- 1, try to eliminate dust, dirt and oil for laying even into the lamp body, use of the environment to keep the grating effect series laser performance device clean;
- 2, please regularly every month to use glass cleaning agent professional and lint cleaning mirror so as to

ensure that the laser output and maximum brightness can prolong the service life of the light source.