

# A5 APP LASER CUBE PRODUCT MANUAL



## 1. Product Overview

The Starshinelights LaserCube A5 is a compact full-color RGB laser projector designed for mobile DJs, bar booths, rooftops and small club stages.

With up to 5 W of RGB laser power and 25 kpps scanners, A5 delivers clean text, logos, tunnels and beam fans that read clearly through light haze at short to medium throw distances. It upgrades you from simple “glow-only” party lights to a true DJ laser light show that still travels light and sets up fast.

## 2. Key Features

### 2 W / 3 W / 5 W RGB output options

- Choose the output level that fits your room size and budget. The 5 W version provides strong, visible beams for small stages, bar booths and outdoor pop-ups under light haze.

### 25 kpps scanning system

- High-speed galvanometer scanners render sponsor logos, vector text, tunnels and fans with smooth motion and minimal flicker, suitable for on-camera recap and social media content.
- Bluetooth app control – cable-free operation
- A5 pairs over Bluetooth with the companion app (Lovely Draw / LaserAPP, depending on firmware). From the app you can import logos, place text, hand-draw vectors, build simple animations and create scene lists, then tweak cues live during your set without touching the console.

### LAN and DMX512 integration

- Use DMX512 to drop A5 into a programmed lighting show, or connect multiple units via LAN to keep cubes synchronized in arrays. Two units create symmetrical tunnels and fans; four or more on LAN can wrap a micro-club with traveling chases and “3D” style beam looks.

### Built-in battery – up to 3 hours runtime

- The internal battery supports approximately 3 hours of operation per charge, ideal for pop-ups, pool parties, rooftops and courtyard events where power access is limited. For longer shows, simply connect mains power and keep the same programming.
- Standalone show modes
- Auto-run, sound-active and master/slave modes let A5 run simple shows without a console, so you can keep a small, fast rig for casual events or backup use.

email address  
service@starshinelights.com



### 3. Technical Specifications

- Brand & Model: Starshinelights LaserCube A5
- Laser Output Power: Full-color 2 W / 3 W / 5 W RGB
- Laser Wavelengths: 638 nm (Red), 530 nm (Green), 450 nm (Blue)
- Color System: Analog RGB full color
- Scanner Speed: 25 kpps galvanometer scanners
- Control Interfaces: Bluetooth server, LAN client, DMX512
- Standalone Modes: Auto, Sound-active, Master/Slave
- Software & Platforms: LaserAPP / Lovely Draw app for PC / Mac / Android / iOS\*
- Multi-Unit Networking: Supports 6+ units via network hub/switch for LAN arrays
- Battery Runtime: Approx. 3 hours per full charge
- AC Power Input: AC 110–230 V, 50–60 Hz ±10%
- Rated Power Consumption: Approx. 100–150 W
- Use Environment / IP Rating: Indoor use, IP22 (keep dry; avoid direct rain or heavy moisture)

### 4. Control Modes

#### 1. Bluetooth App Mode

- Pair your phone, tablet or laptop with the A5 over Bluetooth.
- Use the app to import a logo, place text, draw vectors, and build short animations and playlists.
- Ideal for mobile DJs who need quick edits between tracks without rewiring or re-patching.

#### 2. DMX512 Mode

- Connect A5 to a lighting console via DMX512.
- Use DMX channels to trigger patterns, control color, dimming, movement and show selection as part of a programmed light show.

#### 3. LAN Network Mode

- Connect multiple A5 units to a network switch.
- Use LAN to synchronize patterns and timing across all cubes, creating wraparound looks and mirrored beams. Ideal for small clubs and immersive setups.

#### 4. Standalone Modes (Auto / Sound / Master-Slave)

- Auto: Internal programs run continuously with no controller.
- Sound-active: Internal microphone drives the show from the music beat (best with haze).
- Master/Slave: One unit runs as the master, other units follow its show for quick multi-fixture setups.

### 5. Typical Applications

1. Mobile DJ booths and wedding DJs
2. Small bars, lounges and micro-clubs
3. Rooftop parties, poolside events and courtyard pop-ups (dry, covered placement recommended)
4. Bedroom / studio content creation and livestream backgrounds
5. Small production companies needing portable, networkable laser cubes

### 6. Basic Deployment Guidelines

1. Use a small hazer or fog machine to reveal beams and increase legibility of tunnels and fans.
2. Mount A5 on totems, short truss or shelves with clear sightlines and no mirrors or highly reflective surfaces in the beam path.
3. For quick sets, run on battery and Bluetooth; for longer scripted shows, connect mains power and lock cues via DMX or LAN.
4. Combine A5 beams with moving heads and LED bars so the laser draws the geometry while other fixtures handle wash and color.



## 7.Menu Description Table

| No. | Menu  | Range / Option | Description   |
|-----|-------|----------------|---|
| 1   | ADDR  | 1-512          | DMX address setting for DMX mode / Slave mode.  |
| 2   | SHOW  | SHOW 0         | Random playback of all preset shows.  |
|     |       | SHOW 1         | Playback of line / beam effect shows.   |
|     |       | SHOW 2         | Playback of animation effect shows.   |
|     |       | SHOW 3         | Playback of built-in text shows.  |
|     |       | SHOW 4         | Playback of Christmas & New Year shows.   |
|     |       | SHOW 5         | Playback of outdoor landmark shows.   |
|     |       | SHOW 6         | Playback of custom-programmed shows.  |
|     |       | SHOW 7         | Playback of hand-drawn / graffiti shows.  |
| 3   | SPEED | SP 0-SP 9      | Program playback speed from slow (SP 0) to fast (SP 9).                                   |
| 4   | SOUND | S_ON           | ON: Sound-active enabled; shows run in sound mode (only supported in SHOW 0, 1, 2, 4, 5). |
|     |       | S_OFF          | OFF: Sound-active disabled; shows run in automatic mode.                                  |
| 5   | SENSE | SE 0-SE 9      | Sound sensitivity from low (SE 0) to high (SE 9).   |



## 8. Built-in Show – DMX Channel Functions

| Channel | Function               | DMX Value Range | Description  |
|---------|------------------------|-----------------|--|
| CH1     | Master Laser On/Off    | 0-9             | Laser off.   |
|         |                        | 10-255          | Laser on / dimmer control.   |
| CH2     | Color Control          | 0-69            | Fixed color selection: White → Red → Blue → Pink → Cyan → Yellow → Green.    |
|         |                        | 70-79           | Global color chasing; overall color changes (flow speed controlled by CH3).  |
|         |                        | 80-89           | Pattern initial color (flow speed controlled by CH3).                        |
|         |                        | 90-92           | Rainbow (multi-color) mode (flow speed controlled by CH3).                   |
|         |                        | 93-110          | 2-segment color selection, 4-DMX-value step (flow speed controlled by CH3).  |
|         |                        | 111-131         | 3-segment color selection, 4-DMX-value step (flow speed controlled by CH3).  |
|         |                        | 132-149         | 4-segment color selection, 4-DMX-value step (flow speed controlled by CH3).  |
|         |                        | 150-182         | 8-segment color selection, 4-DMX-value step (flow speed controlled by CH3).  |
|         |                        | 183-218         | 16-segment color selection, 4-DMX-value step (flow speed controlled by CH3). |
|         |                        | 219-253         | 32-segment color selection, 4-DMX-value step (flow speed controlled by CH3). |
| CH3     | Color Flow Speed       | 0-1             | No color flow (static color).  |
|         |                        | 10-127          | Forward color flow, speed from slow to fast.                                 |
|         |                        | 128-255         | Reverse color flow, speed from slow to fast.                                 |
| CH4     | Pattern Bank Selection | 0-24            | Internal static pattern bank 1 (basic geometric patterns).                   |
|         |                        | 25-49           | Internal static pattern bank 2 (basic geometric patterns).                   |
|         |                        | 50-74           | Internal static pattern bank 3 (edge-highlight patterns).                    |
|         |                        | 75-99           | Internal static pattern bank 4 (dot / point patterns).                       |
|         |                        | 100-124         | Internal static pattern bank 5 (Christmas patterns).                         |
|         |                        | 125-149         | ILDA animation bank 1.   |
|         |                        | 150-174         | ILDA animation bank 2.   |
|         |                        | 175-199         | ILDA animation bank 3 (reserved).  |
|         |                        | 200-224         | ILDA animation bank 4 (reserved).  |
|         |                        | 225-255         | ILDA animation bank 5 (reserved).  |

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| Channel | Function                 | DMX Value Range | Description  |
|---------|--------------------------|-----------------|--|
| CH5     | Pattern Selection        | 0-255           | Select individual pattern within the bank chosen by CH4.   |
| CH6     | Built-in Dynamic Effects | 0-1             | No function.   |
|         |                          | 2-206           | Single built-in dynamic effect; one effect per 2 DMX values (color via CH2, speed via CH7; CH2=0 default color). |
|         |                          | 207-216         | Random line/beam effects (color via CH2, speed via CH7; CH2=0 default color).                                    |
|         |                          | 217-226         | Random animation effects (color via CH2, speed via CH7; CH2=0 default color).                                    |
|         |                          | 227-236         | Random Christmas effects (color via CH2, speed via CH7; CH2=0 default color).                                    |
|         |                          | 237-246         | Random outdoor landmark effects (color via CH2, speed via CH7; CH2=0 default color).                             |
|         |                          | 247-255         | Random playback of all effect types (color via CH2, speed via CH7; CH2=0 default color).                         |
| CH7     | Dynamic Effect Speed     | 0-1             | System default speed.  |
|         |                          | 2-255           | Manual speed control for built-in effects, from slow to fast.  |
| CH8     | Pattern Size             | 0-255           | Manual pattern size control, from minimum to maximum.  |





| Channel | Function                | DMX Value Range | Description  |
|---------|-------------------------|-----------------|--|
| CH9     | Pattern Auto Zoom       | 0-15            | Manual pattern size selection.   |
|         |                         | 16-55           | Auto zoom from small to large, speed selection.  |
|         |                         | 56-95           | Auto zoom from large to small, speed selection.  |
|         |                         | 96-135          | Continuous zoom in/out, speed selection.   |
|         |                         | 136-175         | 2-step irregular loop zoom.  |
|         |                         | 176-215         | 3-step irregular loop zoom.  |
|         |                         | 216-255         | 4-step irregular loop zoom.  |
| CH10    | Pattern Center Rotation | 0-127           | Manual rotation angle selection around the center.   |
|         |                         | 128-191         | Clockwise rotation, speed selection.   |
|         |                         | 192-255         | Counterclockwise rotation, speed selection.  |
| CH11    | X-Axis Rotation         | 0-127           | Horizontal rotation position selection (around X-axis).  |
|         |                         | 128-255         | Horizontal rotation speed selection (around X-axis).   |
| CH12    | Y-Axis Rotation         | 0-127           | Vertical rotation position selection (around Y-axis).  |
|         |                         | 128-255         | Vertical rotation speed selection (around Y-axis).   |
| CH13    | Horizontal Move         | 0-127           | Horizontal position selection.   |
|         |                         | 128-255         | Horizontal looping movement, speed from fast to slow.  |
| CH14    | Vertical Move           | 0-127           | Vertical position selection.   |
|         |                         | 128-255         | Vertical looping movement, speed from fast to slow.  |
| CH15    | X-Direction Wave        | 0-1             | No wave effect.  |
|         |                         | 2-255           | Wave amplitude and speed adjustment (amplitude from small to large, speed from slow to fast; one step every 32 DMX values, 8 steps total). |
| CH16    | Pattern Draw / Fade     | 0-1             | No draw/fade effect.   |
|         |                         | 2-63            | Manual draw mode 1.  |
|         |                         | 64-127          | Manual draw mode 2.  |
|         |                         | 128-153         | Auto draw (increase / fade-in).  |
|         |                         | 154-179         | Auto draw (decrease / fade-out).   |
|         |                         | 180-205         | Auto draw (increase then decrease - reverse direction).  |
|         |                         | 206-255         | Auto draw (increase then decrease - same direction).   |

## 8. Typical Applications

- Bars, clubs, live houses
- KTV rooms, performance bars, dance halls
- Hotel ballrooms, banquet halls, wedding venues
- Small theaters, live shows and touring events
- Rental companies and lighting production houses

## 10. Warranty & After-Sales Service

### 10.1 Standard Warranty

Unless otherwise agreed in writing, the M20 Moving Head Full-Color Animation Laser sold under the StarshineLight brand is covered by a limited warranty of 24 months (2 years) from the invoice date.

Within the warranty period, StarshineLight or its authorized distributor will, at its sole discretion, repair or replace any product or component that is found to be defective in materials or workmanship under normal use.

### Covered items (examples)

- Main housing and mechanical structure
- Laser modules (under normal operating conditions)
- Power supply and main control PCBs
- Pan/tilt motors, scanners and drivers
- Internal wiring and connectors

### Not covered (examples)

- Damage caused by incorrect installation, misuse, abuse or negligence
- Operation outside the specified voltage, temperature or environmental conditions
- Damage caused by unauthorized modification, disassembly or repair
- Damage caused by liquids, condensation, corrosion, fire, lightning or other acts of nature
- Optical contamination caused by improper cleaning or handling
- Consumables such as fuses, cables and connectors
- Cosmetic wear and tear (scratches, paint, labels, etc.)

Any parts or products replaced under warranty become the property of StarshineLight or the authorized distributor.



## 10.2 How to Make a Warranty Claim

If you suspect a defect during the warranty period:

1. Switch off the fixture and stop using it immediately.
2. Record the product details: model, serial number, purchase date and a short description of the fault.
3. Contact your dealer or StarshineLight service team and provide clear photos or videos of the problem.
4. Our team will offer remote troubleshooting. If the issue cannot be solved remotely, you may be asked to return the fixture or the defective module for inspection.
5. After inspection, qualifying defects will be repaired or replaced under warranty. For non-warranty repairs, a quotation will be provided before any work is carried out.

Shipping, customs and related costs for returning and reshipping the product are handled according to the specific sales agreement between the customer and the dealer/distributor.

### StarshineLight Service Contact

- Website: [www.starshinelights.com](http://www.starshinelights.com)
- Email: [service@starshinelights.com](mailto:service@starshinelights.com)
- Phone / WhatsApp: +86 135 2139 1704

## 10.3 Out-of-Warranty Service

After the warranty period expires, StarshineLight can still provide paid repair service and spare parts, subject to availability.

To speed up service, customers are advised to keep this manual, the original invoice and the warranty card.

## 11. Warranty Card

This page can be printed as a separate card or left at the back of the manual.

### StarshineLight Product Warranty Card

- Product Name: \_\_\_\_\_
- Model: M20 Moving Head Full-Color Animation Laser
- Serial Number: \_\_\_\_\_
- Purchase Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_\_ (DD / MM / YYYY)
- Dealer / Distributor: \_\_\_\_\_
- Customer Name: \_\_\_\_\_
- Customer Phone / Email: \_\_\_\_\_
- Invoice / Order No.: \_\_\_\_\_
- Installation Address (optional): \_\_\_\_\_

### Warranty Terms (Summary)

1. This product is covered by a limited 24-month (2-year) warranty from the purchase date, unless otherwise specified by StarshineLight or its authorized distributor.
2. The warranty covers defects in materials and workmanship under normal installation and use.
3. The warranty does not cover damage caused by incorrect installation, misuse, unauthorized modification or repair, accidental damage, liquid ingress, corrosion, force majeure or normal cosmetic wear and tear.
4. For warranty service, please contact your dealer first or reach out directly to StarshineLight and provide this card together with the purchase invoice.
5. Within the limits of applicable law, the final interpretation of these warranty terms belongs to StarshineLight and its authorized distributors.

### Dealer / Distributor Seal & Signature:

### StarshineLight Service Contact

- Website: [www.starshinelights.com](http://www.starshinelights.com)
- Email: [service@starshinelights.com](mailto:service@starshinelights.com)
- Phone / WhatsApp: +86 135 2139 1704

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# LIGHT EIF APP: INTUITIVE VECTOR TIMELINE LASER CONTROL

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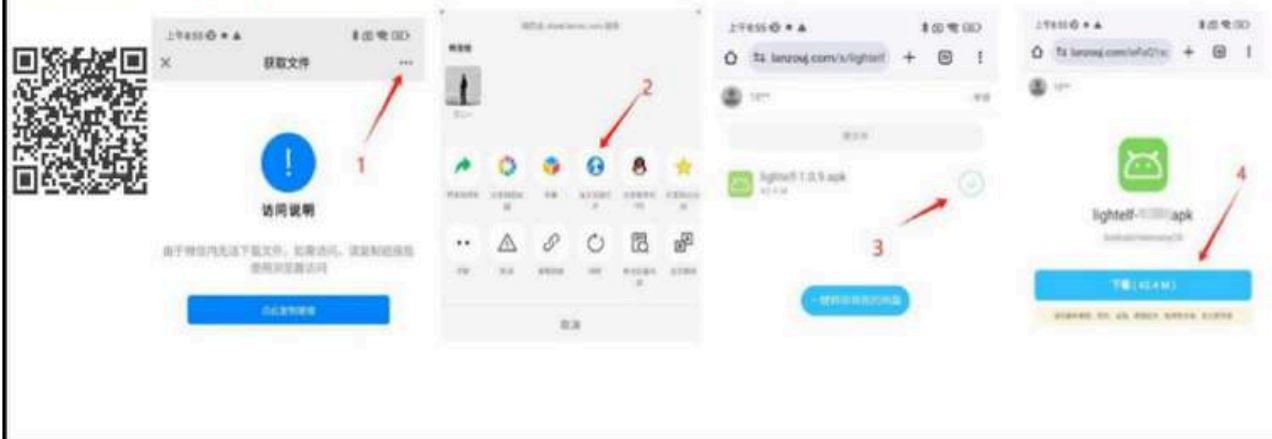
## •Introduction to control system

1. Software installation (WeChat applet/Android APP/Apple APP)  
(\*You need to grant the software permission to access Bluetooth and positioning, otherwise it cannot be used normally\*\*)
2. Open WeChat applet and scan the QR code below to use it.



## 2.Android APP

- 1) Android mobile APP download address: <https://www.lanzouh.com/s/lightelf>  
Or use WeChat to scan the QR code and choose to open the download in the default browser. There is no need to register a network disk account during the download process.



- 2) Log in to Google Play Store  
Search for "LightElf" to install



email address  
[service@starshinelights.com](mailto:service@starshinelights.com)



**3.Apple APP**

Searches for LightElf in Apple' s official App Store and installs it.

4.After the software starts successfully, the main interface is as shown on the right.



**Connecting laser light equipment**

1.Please turn on the laser light device before use

2. Open the software and click "Click me to connect" on the main interface

3. Select Laser\_Light\_xxxx in the Bluetooth list

4. Successfully connect to the device



**1.Software settings**

1.The address code, display range and XY related parameters of the laser light device can be set .

2. The menu language of the software can be changed at the bottom.



**2.Turn the laser on and off**

1.Click the switch button on the right side of the main interface. When it is turned on, the word "Device ON" is displayed .

2.Click the switch button on the right side of the main interface. When it is turned off, the word "Device OFF" is displayed.



### 3. Introduction to the hand-drawn graffiti function

Click the hand-drawn graffiti menu in the main interface to enter. Here you can manually draw patterns, enter text, upload LOGO images


A. Color selection: The upper part of the interface is the color selection area.


Click different color buttons to select the color of the laser drawing .

A. Draw patterns: The middle part of the interface is the pattern control area. In this area you can do the following operations




#### 1. Manually draw patterns

1) Click the  icon to switch to the manual pattern drawing function

2) Use your finger to draw the pattern you want on the middle large screen area 

3) You can also click on the icon to add a picture background to make drawing easier

#### 2. Text input

1) Click the  icon to switch to the text input function

2) Enter text in the input box 3) Use your finger to drag and drop in the middle of the screen

4) You can also select different fonts on the left side of the input box

(Note: The font library of the mini program version is limited, and some texts or symbols may not be displayed. Included, if you need a more complete font library, it is recommended to choose the app version)


#### Select the built-in pattern

1) Slide the pattern list to view all built-in patterns

2) Click on the pattern and drag it with your finger in the middle of the screen



B. Use logo images. It is recommended to use logo images with clear lines and simple patterns.

1. Click the icon and select a logo picture 

2. The image can be zoomed and moved to display the logo area completely

3. Click the "Recognize Pattern" button

4. Click the OK button after the image recognition is successful 5.

Note: The default stroke mode, this mode recognizes the edge lines of the pattern; in addition, the pattern Skeleton extraction mode; users can switch modes to achieve the best results




#### Pattern editing

1. Select the pattern: Click the small edit circle on the lower right side of the middle area. 

2. Then slide your finger on the drawn pattern to select it. 3. Move the pattern: Move your finger in the middle area, and the selected pattern will move accordingly.

4. Scale the pattern: Use two fingers to slide relative to each other in the middle area. The selected pattern will be scaled accordingly.

5. Modify the color: Click the button in the color selection area above, and the selected pattern will change color accordingly.

6. Delete the pattern: When the pattern is selected, a delete button will appear on the lower left, click to delete the pattern 

D. Graphic operation and parameter configuration

1. The clear and back buttons can clear the drawn pattern. After clearing, the pattern can be redrawn.

2. Click the configuration button to configure parameters, configure the size, rotation angle, flip, horizontal and vertical movement of the graphic, left Click the parameters to be configured, slide up and down on the right side to change the parameter value, and click the OK button to save the parameters.

3. After the pattern drawing is completed, click the Send button to display the pattern effect on the device.



### Introduction to text playback function

Click the text playback menu in the main interface to enter. Here you can set the text display effect, which can support up to 100 characters.

**A. The upper part is the color selection area. Click the corresponding button to select the color of the text .**

**B. The middle part is the text setting area (as shown in the picture below)**

1. Click on the left to select the font
2. The middle is the text input box
3. Text The number on the left side of the input box indicates the current text group.
4. Click the "+" on the right side of the input box to add a new text group. Up to 4 groups are supported.
5. Click the playback duration of the group to modify the time.
6. After the text input is completed Click the preview button in the lower left corner to generate a preview in the middle of the screen Effect
7. Click the send button to display the text effect on the device .

**C. There are three configuration parameters in the following part**

1. Text accuracy: adjust the text display accuracy to achieve the best effect. Some models do not support this function
2. Text size: Adjust the text size to change the size of the text displayed on the device
3. Display viewing distance: Adjust the size of the display area (adjust the projection distance)
4. Water flow speed: Adjust the water flow speed to change the movement of text from left to right Speed, when set to 0, the text will stay still and not move.



### Personalized programming

Click the personalized programming menu in the main interface to enter. By editing the pattern of each scene, the laser light device can play in sequence according to the programmed scenes to meet your personalized needs. It can support editing of up to 20 scenes.

**A.Scene management**

- 1.Click the New Scene button at the bottom of the page to add a new scene.
- 2.Click the delete icon on the left in the scene list to delete the scene
- 3.Click the number on the right in the scene list to modify the playback duration of the scene.
- 4.Click the corresponding edit button in the scene list to enter the scene editing page



**B.Scene editing**

- 1.Click the Select Graphic button at the top of the page and the pop-up Various graphic selection interfaces, a total of 7 groups These include motion graphics. Click on a picture, You can see the graphic in real time on the device Effect. After selecting, click the OK button to save.
- 2.You can also choose by modifying the channel parameters below Graph, select graph in the channel menu on the leftshape grouping or figure and slide up and down on the right side Slide to select
- 3.In addition to graphic selection, you can also set For the same display effect, just select the parameters on the left and slide up and down the skateboard on the right.





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### Built-in program playback

The system has built-in hundreds of lighting programs for you to choose from, and they can be played without any editing clicks. All built-in programs can be played randomly or specified programs can be played.

#### A. Random play: All programs are played randomly

1. Click the random play menu in the main interface to enter
2. Click the color button above to select the color of the laser
3. The playback mode supports both self-propelled and voice-controlled modes. The slider below can adjust the self-propelled speed and voice control.

Sensitivity



#### B. Line playback, animation playback, Christmas playback, outdoor program playback

1. Click the corresponding program menu in the main interface to enter
2. For the color and play mode settings in the program, please refer to the random play page.
3. Select Loop to indicate that the 50 programs under this category will be played in order. You can also check to play some of the programs and just click to play the program



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### Care instructions

1. Try to prevent dust, dirt and smoke oil from being artificially laid or even flowing into the lamp body, and try to keep the use environment of the laser performer as clean as possible;
2. Please use professional glass cleaners and clean the reflective lenses with velvet cloth regularly every month to ensure Obtaining the maximum brightness output of the laser can also extend the service life of the light source.

### Warranty Terms

1. During the warranty period, if a malfunction occurs due to the use of this product under normal conditions, this warranty can be repaired according to the content of this warranty.

Card repair and ticket purchase samples (copies) can be used to enjoy free repair services at designated service centers or production plants.

2. During the warranty period, paid maintenance services will be implemented in the following situations.

- (1) A valid warranty card cannot be issued;
  - (2) There are omissions, alterations and no sales name on the warranty card;
  - (3) Failure or damage caused by force majeure;
  - (4) Failure and damage caused during transportation and handling;
  - (5) Failure or damage caused by failure to follow the instructions for use;
  - (6) Failure or damage caused by disassembly, repair, or modification of the product without authorization from the manufacturer or by non-professionals.
  - (7) Failures caused by the use of control systems not approved by our factory or not supported by our factory.
  - (8) The normal consumption range of consumables (such as the formal attenuation of the light source)
3. Please keep this warranty card properly and will not replace it if lost.

•Statement: 1.

When this product leaves the factory, its performance is intact and its packaging is complete. All users should strictly abide by the warnings and operating instructions stated above. Any damage caused by misuse is not covered by the company's warranty, and the manufacturer is not responsible for faults and problems caused by ignoring the operation manual. 2. The company has the right to interpret the relevant matters stated in this manual