

A2 LASERCUBE LASER LIGHT PRODUCT MANUAL

STARSHINE
— LIGHTS —

**STARSHINE LIGHT
PRODUCT MANUAL**

1. INTRODUCTION

Thank you for purchasing the Starshine A2 Lasercube, our advanced stage laser light engineered for captivating live events including concerts, corporate shows, nightclubs, and home entertainment. This manual provides complete instructions for installation, operation, and maintenance to ensure optimal performance and safety.

2. PACKAGE CONTENTS

When you receive your A2 Lasercube, please verify that the following items are included:

- A2 Starshine Lasercube Unit – 1 piece
- Mounting Bracket / Suspension Kit – 1 set
- Battery & Charging Adapter – 1 set
- User Manual – 1 copy

Please inspect the package for any damage upon receipt. If any components are missing or damaged, contact your distributor immediately.

3. SAFETY WARNINGS

Before using the A2 Lasercube, please read and adhere to the following safety guidelines:

- Electrical Safety:
 - Use only the provided DC12V, 4A power adapter or the internal battery. Do not connect to voltages exceeding 14V.
- Laser Safety:
 - Avoid direct eye or skin exposure to the laser beam.
 - Never point the laser at people or reflective surfaces.
- Installation:
 - Install the unit on a non-combustible surface with a minimum clearance of 10 cm from walls or obstructions.
 - Ensure that the cooling vents remain unobstructed.
- Operation:
 - Follow all operating instructions carefully to prevent damage to the device and ensure user safety.

WARNING: Direct or scattered laser radiation can cause serious eye or skin injury.

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service@starshinelights.com



www.starshinelights.com

4. TECHNICAL SPECIFICATIONS

Below are the key technical parameters of the A2 Lasercube:

Parameter	Specification
Input Voltage	DC12V, 4A
Power Consumption	< 50W
Built-in Battery	3 x 18650 rechargeable batteries (approx. 2 hours runtime)
Laser Output (RGB)	300mW – 5W (adjustable per color channel)
Laser Wavelengths	Red: 638nm, Green: 520nm, Blue: 450nm
Laser Type	Imported semiconductor solid-state laser
Beam Size	< 7 x 6 mm at output
Beam Divergence	< 1.3 mrad
Scanning System	15kpps galvanometer, scanning angle $\pm 20^\circ$
Modulation Signal	TTL or Analog
Control Modes	Self-run, Mobile App (LightElf), DMX, ILDA
Cooling System	Fan-assisted forced cooling
Installation Options	Suspension mount / Triangular bracket (optional)
Operating Environment	Indoor
Protection Rating	IP20
Suitable For	Home entertainment, travel, KTV, small bars, parties

Scanning System: 15~25kpps galvanometer

5. OPERATING INSTRUCTIONS

5.1 Control Interface

- LCD Display Panel:
 - The full-color LCD display shows current settings, working mode, and system status.
- Select/Menu Knob:
 - Rotate the knob to navigate through the menu options.
- OK/Return Button:
 - Press to confirm and save your selections.





5.2 Operating Modes

The A2 Lasercube supports multiple modes of operation:

- Self-Run Mode:
 - Plays pre-programmed laser shows automatically.
- Mobile App Control:
 - Control and edit shows using the LightElf app (compatible with iOS and Android) or the WeChat mini-program.
- DMX Control:
 - Connect to a DMX-512 controller for professional live performance integration.
- ILDA Mode:
 - Use with ILDA-compatible controllers for advanced laser effects.

5.3 DMX-512 Configuration

For users employing DMX control, a simplified 10-channel mode is available. Use the table below as a guide:

Channel	Function	Value Range	Description
CH1	Overall Brightness	0 – 255	0 = Off; 1–255 sets the brightness level
CH2	Strobe Effect	1 – 255	Adjusts strobe speed
CH3	Pattern Size	0 – 255	Selects pattern size (large to small)
CH4	Horizontal Position	0 – 255	128 = Center; adjust horizontal placement
CH5	Vertical Position	0 – 255	128 = Center; adjust vertical placement
CH6	Pattern File Selection	0 – 255	Choose a pattern from the internal library
CH7	Color & Effects	0 – 255	Controls fixed color and dynamic color effects
CH8	Scanning Speed	0 – 255	Sets the scanning speed (line or spot mode)
CH9	Library Selection	0 – 255	Selects the pattern/effect library
CH10	Trigger/Run Mode	0 – 255	Configures auto-running, walking, or voice sensitivity mode

Insert Diagram/Screenshot of DMX Settings Here (if available)

6. INSTALLATION

6.1 Mounting Options

- Suspension Installation:
 - Use the provided mounting bracket or suspension kit to hang the unit securely.
- Bracket Installation:
 - Optionally, install using the triangular support bracket.
- Clearance:
 - Ensure a minimum of 10 cm clearance from walls or obstructions.

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6.2 Setup Procedure

1. Unpack & Inspect:
2. Verify that all items in the package are present and undamaged.
3. Connect Power:
4. Attach the provided DC12V adapter or use the internal battery.
5. Initial Calibration:
6. Power on the unit and use the LCD display to configure settings (e.g., address code, operating mode).
7. Mobile App Setup:
8. Download and install the LightElf app (available for iOS/Android) or use the WeChat mini-program for further control.
9. DMX/ILDA Connection:
10. For external control, connect via DMX-512 or ILDA ports as required.

7. MAINTENANCE & WARRANTY

• 7.1 Maintenance

- Regular Cleaning:
 - Clean the lens and external surfaces with a soft, lint-free cloth and approved glass cleaner.
- Ventilation:
 - Ensure cooling vents remain unobstructed.
- Inspection:
 - Regularly check for dust, moisture, or damage that could affect performance.

• 7.2 Warranty

- The Starshine A2 Lasercube is covered by a standard warranty for manufacturing defects under normal use conditions.
- Retain your purchase receipt and warranty card for service claims.
- Unauthorized repairs, modifications, or damage due to misuse are not covered under warranty.
- For detailed warranty terms, please refer to the warranty documentation included with your product.

8. CONTACT & SUPPORT

For additional support, software updates, or warranty inquiries, please visit our website or contact our support team:

- Website: www.starshinelights.com
- Email: service@starshinelights.com

Thank you for choosing Starshine. We are dedicated to providing innovative laser technology and exceptional support to ensure your events shine brilliantly.



OPERATION INSTRUCTIONS:



1. Light outlet: the laser emits from this window
2. Laser lock: the laser will not emit light after being locked, which can avoid accidental light emission caused by misoperation.
3. Power switch: turn on or off the power supply
4. Charging port: connect the charger .
5. Setting knob: Rotate left and right to control the movement of the display menu, press down to confirm and save.
6. Color display: used to set and display working status.
7. Microphone: Use voice control mode to receive sound.

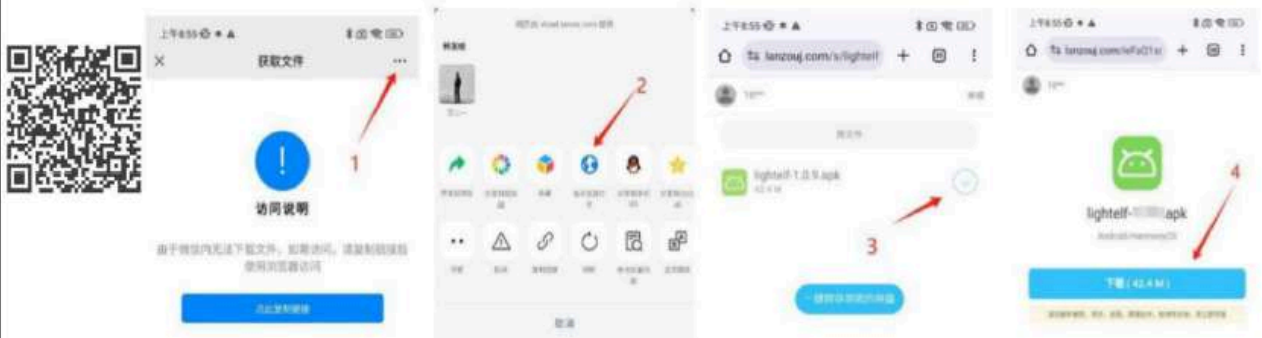
•Introduction to control system

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



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 yourfinger 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.





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