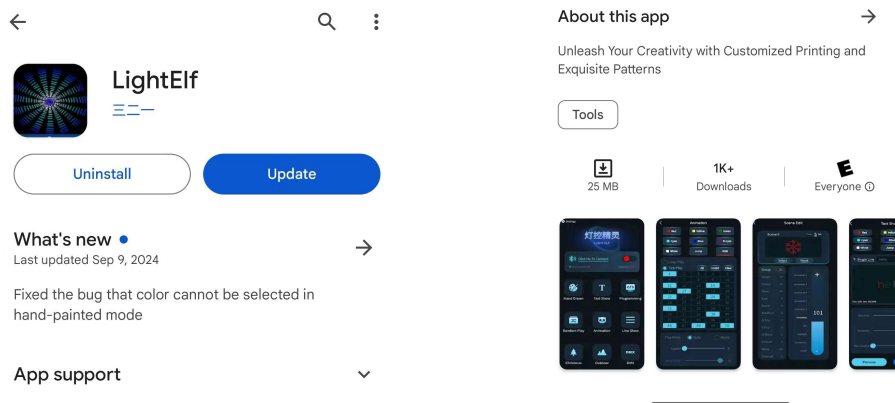


LightElf (Android/ Apple APP) User Manual

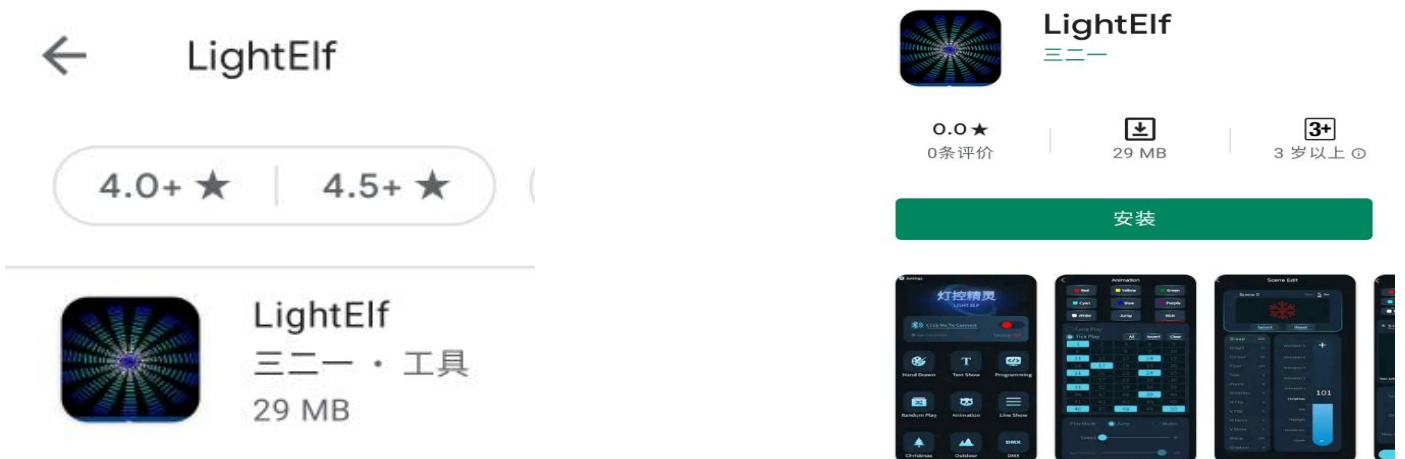
● Software installation (Android/ Apple APP)

(** You need to grant the software permission to access Bluetooth and positioning, otherwise it cannot be used normally. **)

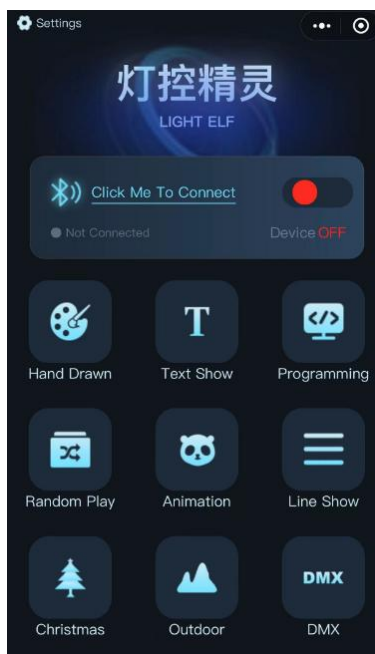
1. Android App: Google Play Store and search for "LightElf" to install it



2. Apple App: Search for LightElf on the official App Store and download to use.



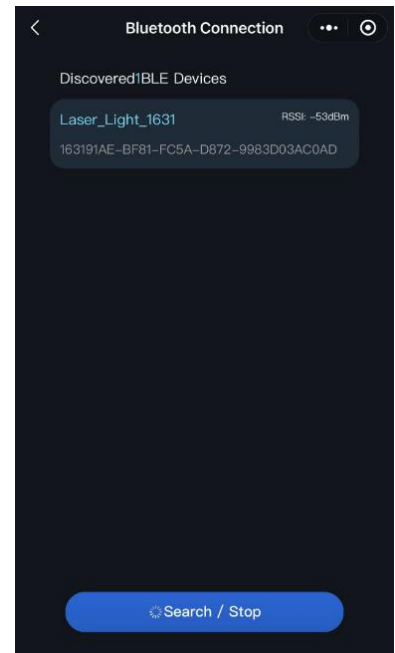
- 3.
4. The main interface after the software is started is as shown in the figure



If you have a problem and need help, you can reach out to our customer support at Amazon or aoke.service@outlook.com

● **Connect laser light equipment**

1. Please turn on the laser light equipment 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 connected to device



● **Troubleshooting and Solutions for Bluetooth Device Not Found in Software Search**

1. Bluetooth on the phone is not turned on.

- 1) Open the system settings on your phone.
- 2) Scroll or search for "Bluetooth" and click on it.
- 3) On the Bluetooth settings page, toggle the Bluetooth switch to the "ON" position.

2. Bluetooth permission not granted.

A. For Android phones:

- 1) Open the system settings on your phone.
- 2) Scroll or search for "App Management" or "Apps & Notifications" and click on it.
- 3) Find and click on WeChat or Light Elf in the app list to enter the app details page.
- 4) Click on "Permissions" or "App Permissions".
- 5) Look for and click on "Bluetooth" and "Connect to nearby devices".
- 6) Select options like "Allow," "Always Allow," or "Allow While Using the App."

B. For iOS phones:

- 1) Open the system settings on your phone.
- 2) Find and click on WeChat in the app list to enter the app details page.
- 3) Toggle the Bluetooth switch to the "ON" position.

3. Location service on the phone is not turned on (for iPhone).

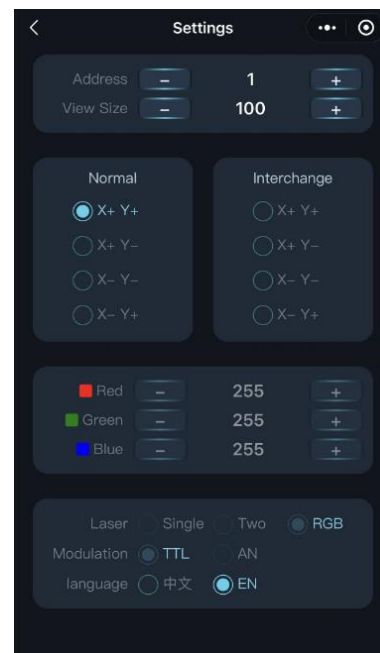
- 1) Open the system settings on your phone.
- 2) Scroll or search for "Location" or "Location Services" and click on it.
- 3) On the location settings page, ensure that the "Location" or "Location Information" switch is turned on.

4. Location service permission not granted (for Android phones).

- 1) Open the system settings on your phone.
- 2) Scroll or search for "App Management" or "Apps & Notifications" and click on it.
- 3) Find and click on WeChat or Light Elf in the app list to enter the app details page.
- 4) Click on "Permissions" or "App Permissions".
- 5) Look for and click on "Location".
- 6) Select options like "Allow," "Always Allow," or "Allow While Using the App."

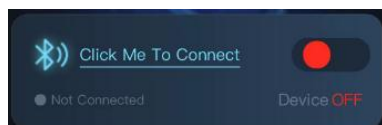
● Software settings

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



● Turn the laser on and off

1. Click the switch button on the right side of the main interface. After turning it on, the words "Device ON" will be displayed.
2. Click the switch button on the right side of the main interface. After closing, the words "Device OFF" will be displayed.



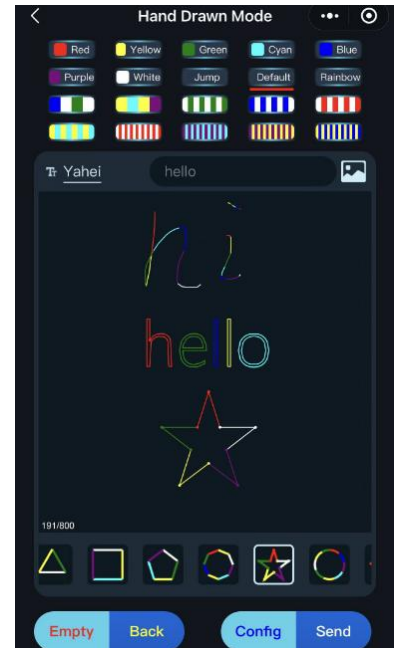
● Introduction to hand-drawn graffiti function

Click the hand-drawn graffiti menu in the main interface to enter. Here you can control the display effect of the



device by manually drawing patterns, entering text, or selecting built-in patterns.

A. **Selection of color:** The upper part of the interface is the color selection area. Click the different color buttons to select the color of the laser drawing.


B. **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 the icon  to add a picture background to make drawing easier

2. Text input

- 1) Click the icon  to switch to 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 choose 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 included. If you need a more complete font library, it is recommended to choose the app version)

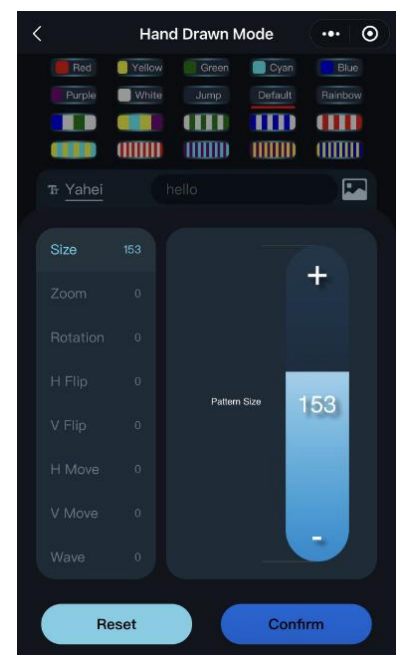
3. Select the built-in pattern

- 1) Swipe 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



C. Graphic operation and parameter configuration

- 1) The clear and back buttons can be used to delete the drawn pattern. After deletion, the pattern can be redrawn.
- 2) Click the configuration button to configure parameters, configure the size, rotation angle, flip, and horizontal and vertical movement of the graphics. Click on the left side to select 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 is drawn, 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 50 characters.

1. The upper part is the color selection area. Click the corresponding button to select the color of the text.
2. The middle part sets the area for text

- 1) Click on the left to select a font

- 2) In the middle is the text input box

- 3) The number on the left side of the text 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 completing the text input, click the preview button in the lower left corner to generate a preview effect in the middle of the screen.

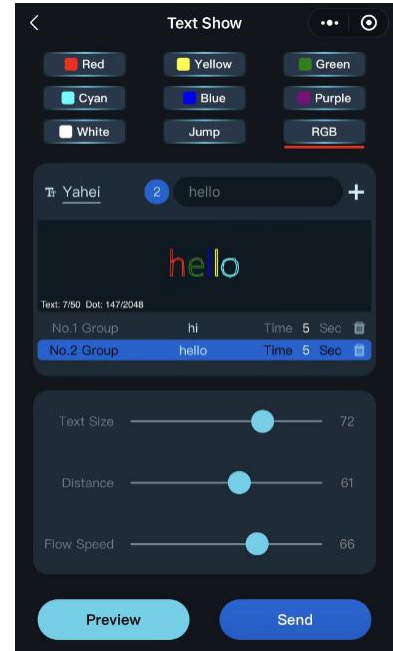
- 7) Click the send button to display text effects on your device

3. There are three configuration parameters in the following section

- 1) Text size: Adjust text size to change the size of text displayed on your device

- 2) Display viewing distance: adjust the size of the display area (use to adjust the projection distance)

- 3) Water flow speed: Adjust the water flow speed to change the speed at which text moves from left to right. When set to 0, the text remains stationary and does 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 up to 20 scene editing.

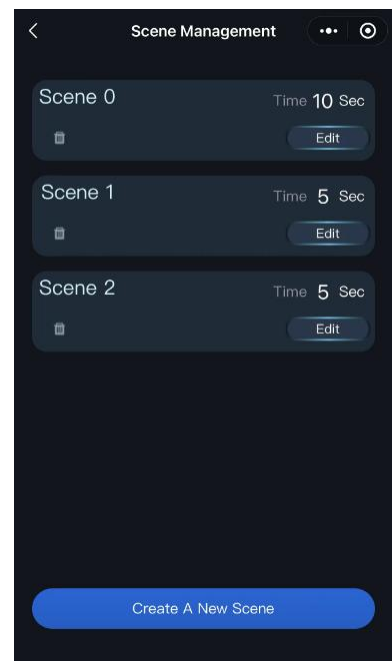
A. Scene management

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

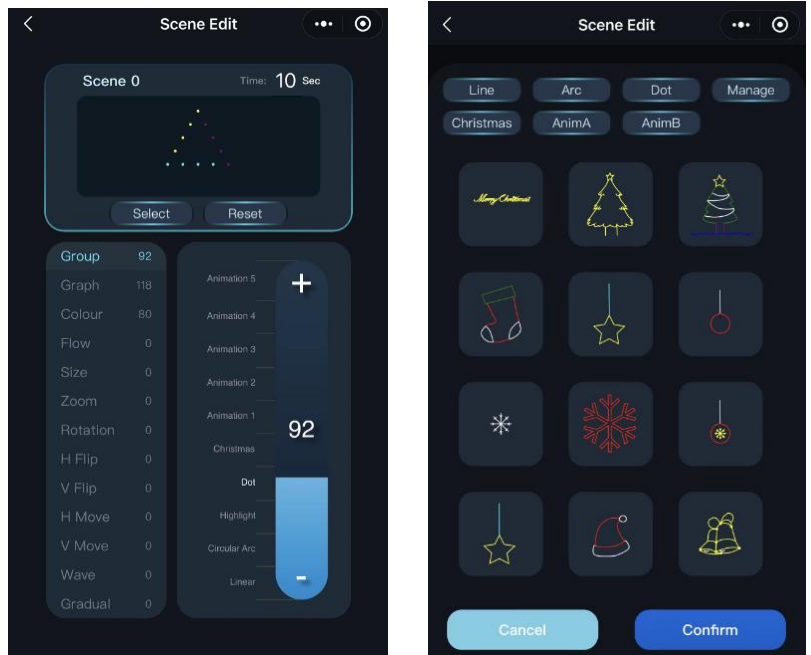
3. Click the number on the right in the scene list to modify the playback duration of the scene.

4. Click the corresponding edit button in the scene list to enter the scene editing page



B. Scene editing

1. Click the Select Graphics button at the top of the page to pop up a selection interface for various graphics, with a total of 7 groups including dynamic graphics. Click on a graphic to see the effect of the graphic in real time on the device. After selecting, click the OK button to save.
2. You can also select graphics by modifying the channel parameters below, select graphics groups or graphics in the channel menu on the left, and slide up and down on the right skateboard to select
3. In addition to graphic selection, you can also set different display effects. Just select the parameters on the left and slide up and down the skateboard on the right.

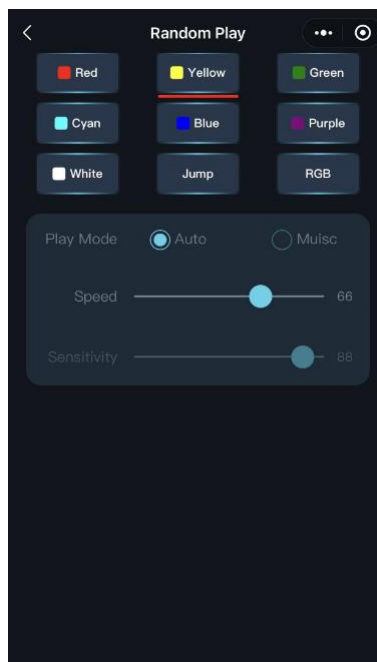


● Built-in program playback

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.

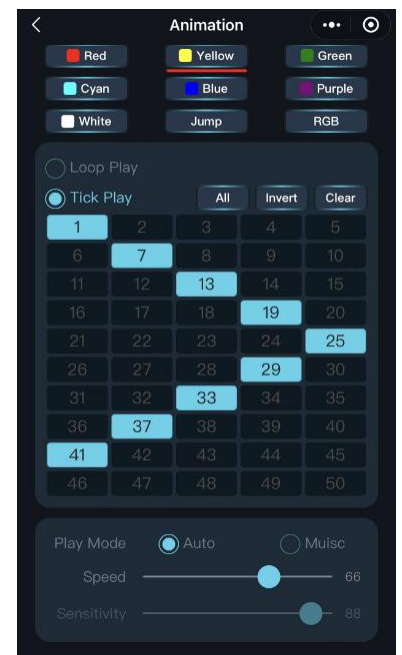
A. Random play: all programs are played randomly

1. Click on 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 two modes: self-propelled and voice-controlled. The slider below can adjust the self-propelled speed and voice-controlled 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. Selecting loop means that the 50 programs under this category will be played in order.
4. You can also check the box to play some of the programs and just click to play the program

● Menu Function Operation Instruction

Menu	Value	Description
ADDE	001-512	Address code setting, DMX Mode/slave mode
SHOW	SH-0	SHOW 0 All programs are played randomly
	SH- 1	SHOW 1 Line effect program play
	SH- 2	SHOW 2 Animation effect program play
	SH- 3	SHOW 3 Built-in text program play
	SH- 4	SHOW 4 Christmas pattern program play
	SH- 5	SHOW 5 Outdoor scene program play
	SH- 6	SHOW 6 Personalized programming program play
	SH-7	SHOW 7 Hand-painted graffiti program play
SPEED	SP 0-SP 9	SP 0-9 Program play speed from slow to fast
SOUND	S-ON	ON: Voice control is on, and the program is played in voice control mode (only SHOW 0, SHOW 1, SHOW 2, SHOW 4, and SHOW 5 support voice control)
	S-OFF	OFF: Voice control is off, and after voice control is off, the program is played in automatic mode
SENSE	SE 0-SE 9	SE 0-9 Voice control sensitivity from low to high

● DMX Chanel Table

Chanel	Value	Description
CH1	0-9	Light off
	10-255	Light on
	0-69	White-red-blue-pink-cyan-yellow-green (fixed color selection)

CH2	70-79	Overall color change (speed controlled by CH3)
	80-89	Pattern initial color (speed controlled by CH3)
	90-92	Colorful rainbow (speed controlled by CH3)
	93-110	2-segment color selection 4 value steps (speed controlled by CH3)
	111-131	3-segment color selection 4 value steps (speed controlled by CH3)
	132-149	4-segment color selection 4 value steps (speed controlled by CH3)
	150-182	8-segment color selection 4 value steps (speed controlled by CH3)
	183-218	16-segment color selection 4 value steps (speed controlled by CH3)
	219-253	32-segment color selection 4 value steps (speed controlled by CH3)
	254-255	Color gradient (speed controlled by CH3)
CH3	0-9	No color change
	10-127	Color forward, speed from slow to fast
	128-255	Color reverse, speed from slow to fast
CH4	0-24	Built-in static graphics group 1 (basic geometric pattern)
	25-49	Built-in static graphics group 2 (basic geometric pattern)
	50-74	Built-in static graphics group 3 (edge bright spot pattern)
	75-99	Built-in static graphics group 4 (dot pattern)
	100-124	Built-in static graphics group 5 (Christmas pattern)
	125-149	Animation group 1
	150-174	Animation group 2
	175-199	Animation group 3 (no effect)
	200-224	Animation group 4 (no effect)
	225-255	Animation group 5 (no effect)
CH5	0-255	Pattern selection (pattern grouping is controlled by CH4)
	0-1	No function

CH6	2-206	Built-in dynamic effect single selection, one effect for every 2 values (color CH2 control, CH2=0 default color, speed CH7 control)
	207-216	Line effect random play (color CH2 control, CH2=0 default color, speed CH7 control)
	217-226	Animation effect random play (color CH2 control, CH2=0 default color, speed CH7 control)
	227-236	Christmas effect random play (color CH2 control, CH2=0 default color, speed CH7 control)
	237-246	Outdoor effect random play (color CH2 control, CH2=0 default color, speed CH7 control)
	247-255	All effects random play (color CH2 control, CH2=0 default color, speed CH7 control)
CH7	0-1	System default speed
	2-255	Manual adjustment Built-in effect speed from slow to fast
CH8	0-255	Manual pattern size selection
CH9	0-15	Pattern size selection
	16-55	Speed selection from small to large
	56-95	Speed selection from large to small
	96-135	Size scaling speed selection
	136-175	Two-point irregular cycle scaling
	176-215	Three-point irregular cycle scaling
	216-255	Four-point irregular cycle scaling
CH10	0-127	Rotation angle selection
	128-191	Forward rotation speed selection
	192-255	Reverse rotation speed selection
CH11	0-127	Vertical flip position selection
	128-255	Vertical flip speed selection
CH12	0~127	Horizontal flip position selection
	128-255	Horizontal flip speed selection
CH13	0~127	Horizontal position selection
	128-255	Horizontal circular movement, speed from slow to fast
CH14	0-127	Vertical position selection

	128-255	Vertical circular movement, speed from slow to fast
CH15	0-1	No function
	2-255	Wave amplitude and speed adjustment (amplitude from small to large, speed from slow to fast, one gear for every 32 values, 8 gears in total)
CH16 (Only supports static images)	0-1	No function
	2-63	Manual gradual drawing 1
	64-127	Manual gradual drawing 2
	128-153	Automatic gradual drawing (clockwise from slow to fast)
	154-179	Automatic gradual drawing (counterclockwise from slow to fast)
	180-205	Automatic gradual drawing (increase first and then decrease - reverse direction)
	206-255	Automatic gradual drawing (increase first and then decrease - same direction)

If you run into any questions, please contact us first via Amazon or aoke.service@outlook.com. We will reply as soon as possible.