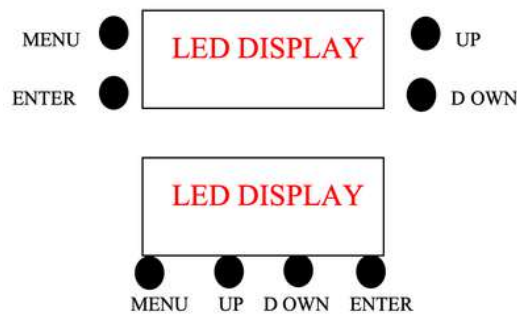


A18 APP COLOR LASER PRODUCT MANUAL



LED Display Panel



Use touch buttons and digital tube menu display function
Select functions through the MENU button.

Confirm the function menu and save the function parameters by pressing the ENTER button.
Select function parameters by pressing the UP and DOWN buttons to add or subtract.

2、LED The menu functions are shown in the following table:

First level menu	Second level menu	Third level menu
1、 A001 DMX-512Mode	A001-A512 Address	
2、 CH16 Channel Mode	Display the number of channels	
3、 AUto Auto Mode	Auto: Play all lists Autx Select Playlist	
4、 SP50 Auto speed	SP00-SP99 Auto speed from slow to fast	
5、 PAll Manual Program	PAll: List all programs P001-P255: Manually select list programs	
6、 SoUo Sound Mode	SoUo: Play all lists SoUx Select Playlist	
7、 8oDB Voice sensitivity	ooDB-99DB Sensitivity from low to high	
8、 BLE View Bluetooth	1dC3 View Bluetooth search name	

STARSHINE LIGHTS
PRODUCT MANUAL





STARSHINE LIGHTS PRODUCT MANUAL



9、ILdn/ILdF ILDA Mode	ILdn Turn on ILDA-RJ45 mode ILdF Turn off ILDA-RJ45 mode	
Press and hold the ENTER key to enter the testing menu, and press and hold the ENTER key to exit the testing menu		
TEST MENU	tEst	Select test pattern 1、 2、 3、 4
	XY inversion and XY swap settings	PHn1: normal (XY no Swap) PHn2: phaseY (XY no Swap) PHn3: phaseXY (XY no Swap) PHn4: phaseX (XY no Swap) PHc1: normal (XY Swap) PHc2: phaseY (XY Swap) PHc3: phaseXY (XY Swap) PHc4: phaseX (XY Swap)
	H100 X Direction size setting	H010-H100 X Size from small to large
	y100 Y Direction size setting	y010-y100 Y Size from small to large
	S100 XY Direction size setting	S010-S100 XY Size from small to large
	SC15 Scanning speed setting	SC10-SC30 Scanning speed from slow to fast
	Co11 color setting	Co01-Co07: single Co08:RGY Co09:RBP Co10:GBC Co11:RGB Co12:WYPC
	Beon/BeoF Security Protection Settings	Beon Security protection turned on BeoF Security protection turned off
	DEFA Restore Default	Yes No
	3901 VERSION	

三、 DMX-512 Channel description:

1、 STD mode: 16CH

Channel		Channel value	Control instructions
CH1	Switching lights	0	Turn off the lights
		1~255	Turn on the lights 1-100% brightness selection
CH2	Auto effect speed selection	0~26	Default Auto speed
		27~127	The overall speed of the Auto effect changes from slow to fast. Note that static patterns require a variation effect to see the speed adjustment effect
	Sensitivity selection for voice control	128~255	Select voice sensitivity



STARSHINE LIGHTS PRODUCT MANUAL



CH3	Pattern group	0~127	Select a pattern group for every 16 values
	Effects Group	128~255	Select an effect group for every 16 values
CH4	Pattern selection	0~255	Choose a pattern for every 5 values
	Effect selection	0~1	Play all selected effect groups
		2~255	Choose an effect for every 2 values
CH5	colour	0~3	Original color
		4~31	Fixed color selection, choose one every 4 values
		32~35	Colorful color changing effect
		36~39	Red, green, and blue color changing effect
		40~43	Original color change effect
		44~239	Multiple flow effects, choose one every 4 values
		240~255	Gradual drawing effect
CH6	Color speed	0~3	Color speed off
		4~127	Color speed changes from slow to fast, positive phase
		128~255	Color speed changes from slow to fast, reversed
CH7	Pattern line	0~63	Highlight line scanning speed selection
		64~127	Line scanning speed selection
	Pattern Points	128~255	Point scanning speed selection
CH8	Pattern Size	0~255	Pattern selection from large to small
CH9	Rotate Z	1~127	Rotation Z angle selection
		128~255	Rotation Z speed selection
CH10	Rotate X	1~127	Rotation X angle selection
		128~255	Rotation X speed selection

CH11	Rotate Y	1~127	Rotation Y angle selection
		128~255	Rotation Y speed selection
CH12	horizontal movement	1~127	Horizontal movement position selection
		128~255	Horizontal movement speed selection
CH13	vertical movement	1~127	Vertical movement position selection
		128~255	Vertical movement speed selection
CH14	Zoom	1~127	Scaling size selection
		128~255	Zoom speed selection
CH15	Gradual drawing	1~255	Gradual drawing speed selection
CH16	X waves	1~127	X Wave Speed Selection
	Y waves	128~255	Y Wave Speed Selection

2、PRO Mode: 36CH

Channel		Channel value	Control instructions
CH1	Switching lights	0	Turn off the lights
		1~255	Turn on the lights 1-100% brightness selection
CH2	Auto effect speed selection	0~26	Default Auto speed
		27~127	The overall speed of the Auto effect changes from slow to fast. Note that static patterns require a variation effect to see the speed adjustment effect
	Sensitivity selection for voice control	128~255	Select voice sensitivity
CH3	Pattern group	0~127	Select a pattern group for every 16 values
	Effects Group	128~255	Select an effect group for every 16 values





CH4	Pattern selection	0~255	Choose a pattern for every 5 values
	Effect selection	0~1	Play all selected effect groups
		2~255	Choose an effect for every 2 values
CH5	Pattern Size	0~255	Pattern selection from large to small
CH6	Horizontal Position MSB	0~255	Horizontal position MSB selection, with a value of 128 indicating the middle position and closed light outside the boundary
CH7	Vertical Position MSB	0~255	Vertical position MSB selection, with a value of 128 indicating the middle position and closed light outside the boundary
CH8	colour	0~3	Original color
		4~31	Fixed color selection, choose one every 4 values
		32~35	Colorful color changing effect
		36~39	Red, green, and blue color changing effect
		40~43	Original color change effect
		44~239	Multiple flow effects, choose one every 4 values
		240~255	Gradual drawing effect
CH9	Color speed	0~3	Color speed off
		4~127	Color speed changes from slow to fast, positive phase
		128~255	Color speed changes from slow to fast, reversed
CH10	Pattern line	0~63	Highlight line scanning speed selection
		64~127	Line scanning speed selection
	Pattern Points	128~255	Point scanning speed selection
CH11	strobe	1~255	Strobe speed selection
CH12	Rotate Z	1~127	Rotation Z angle selection
		128~255	Rotation Z speed selection
CH13	Rotate X	1~127	Rotation X angle selection
		128~255	Rotation X speed selection

CH14	Rotate Y	1~127	Rotation Y angle selection
		128~255	Rotation Y speed selection
CH15	horizontal movement	1~127	Horizontal movement position selection
		128~255	Horizontal movement speed selection
CH16	vertical movement	1~127	Vertical movement position selection
		128~255	Vertical movement speed selection
CH17	Zoom	1~127	Scaling size selection
		128~255	Zoom speed selection
CH18	Gradual drawing	1~255	Gradual drawing speed selection
CH19	X waves	1~127	X Wave Speed Selection
	Y waves	128~255	Y Wave Speed Selection
CH20	Pattern group	0~255	Select a pattern group for every 16 values
CH21	pattern	0~255	Choose a pattern for every 5 values
CH22	Pattern Size	0~255	Pattern selection from large to small
CH23	Horizontal Position MSB	0~255	Horizontal position MSB selection, with a value of 128 indicating the middle position and closed light outside the boundary
CH24	Vertical Position MSB	0~255	Vertical position MSB selection, with a value of 128 indicating the middle position and closed light outside the boundary
CH25	colour	0~3	Original color
		4~31	Fixed color selection, choose one every 4 values
		32~35	Colorful color changing effect
		36~39	Red, green, and blue color changing effect
		40~43	Original color change effect
		44~239	Multiple flow effects, choose one every 4 values
		240~255	Gradual drawing effect
CH26	Color speed	0~3	Color speed off
		4~127	Color speed changes from slow to fast, positive phase
		128~255	Color speed changes from slow to fast, reversed



CH27	Pattern line	0~63	Highlight line scanning speed selection
		64~127	Line scanning speed selection
	Pattern Points	128~255	Point scanning speed selection
CH28	strobe	1~255	Strobe speed selection
CH29	Rotate Z	1~127	Rotation Z angle selection
		128~255	Rotation Z speed selection
CH30	Rotate X	1~127	Rotation X angle selection
		128~255	Rotation X speed selection
CH31	Rotate Y	1~127	Rotation Y angle selection
		128~255	Rotation Y speed selection
CH32	horizontal movement	1~127	Horizontal movement position selection
		128~255	Horizontal movement speed selection
CH33	vertical movement	1~127	Vertical movement position selection
		128~255	Vertical movement speed selection
CH34	Zoom	1~127	Scaling size selection
		128~255	Zoom speed selection
CH35	Gradual drawing	1~255	Gradual drawing speed selection
CH36	X waves	1~127	X Wave Speed Selection
	Y waves	128~255	Y Wave Speed Selection

The "Lovely Draw" app can be downloaded as an Android APK via WeChat Mini Programs or browser QR code scanning.

For Huawei, Honor, Xiaomi, OPPO, VIVO, Google Play, and Apple devices, please search "Lovely Draw" in their respective app stores to install.

You can also scan Lovely Draw's installation QR code – it works for both Android and IOS systems.



Lovely Draw



After installing the Lovely Draw app, you can access the Quick Start Guide via Settings > Help Center located at the top-left corner of the home page, as shown in the figure below.



STARSHINE LIGHTS PRODUCT MANUAL

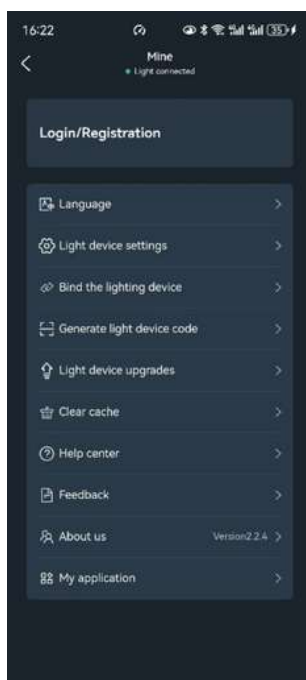


Introduction to Lovely Draw Lite and Pro Versions

Lovely Draw Lite: Suitable for regular users, with simple operation.

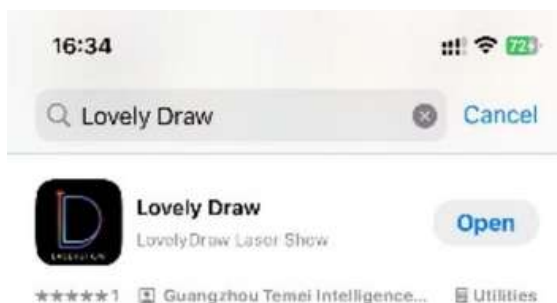
Lovely Draw Pro: Suitable for professional users, with comprehensive features.

You can switch between Lovely Draw Lite and Pro versions via Settings > My application at the top-left corner.



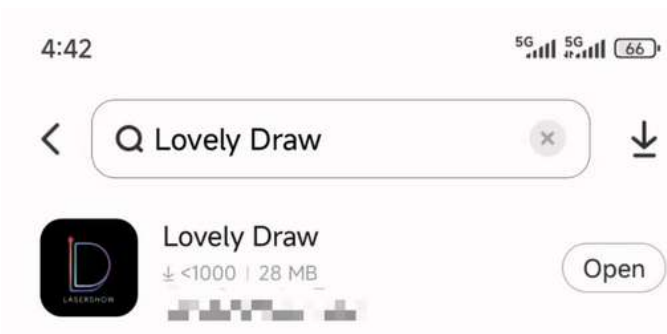
1. IOS Installation Guide for Apple user

Open the App Store on your IOS device and search for "Lovely Draw", then tap "Get" (or "Install") to start installation.



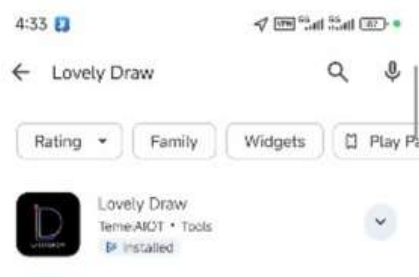
2. Installation Guide for Huawei, Xiaomi, Honor, OPPO, VIVO user

Open the APP market on your phone and search for "Lovely Draw", then tap "Install" to start the installation.



3. Installation Guide via Google Play Store

Open the Google Play Store app on your phone and search for "Lovely Draw" in the search bar, then tap the "Install" button to start the installation.

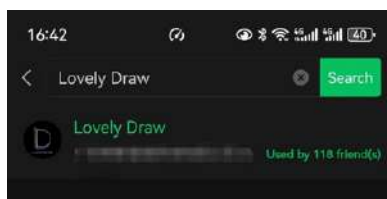


4. WeChat Mini Program installation Guide

Open the WeChat Scan function and scan the Mini Program QR code".



Open Wechat mini program and search for Lovely Draw.

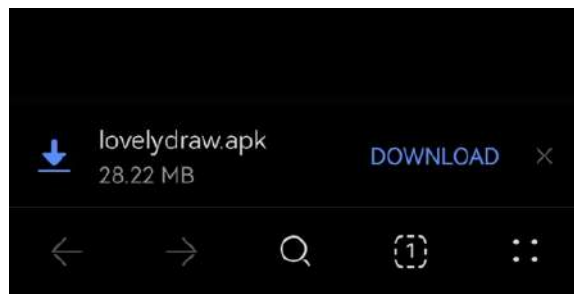


5. Android installation guide

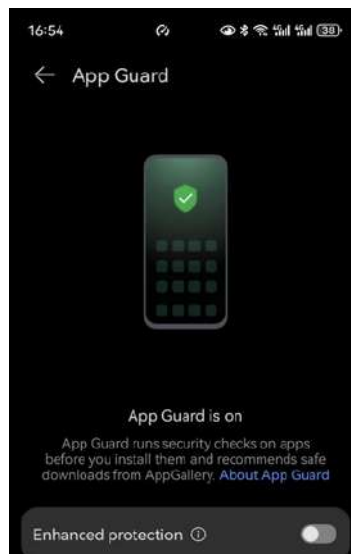
Open the browser on your Android phone, scan the QR code to download and install the app.



Tap to download the APK installation package, as shown below:

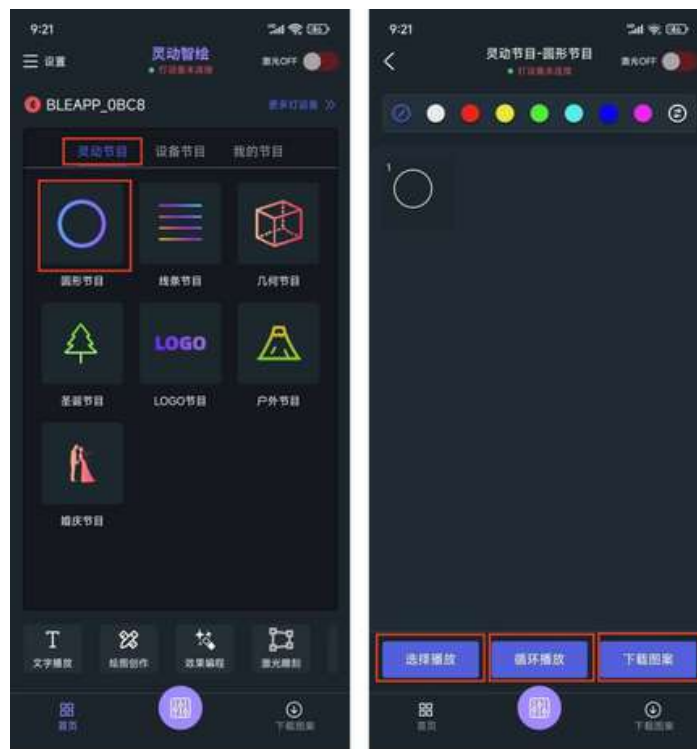


Tap "Continue Installation". Different phones may show security prompts during installation, and you need to agree to them to install the app. For example, on Huawei phones, tap "Learn About Pure Mode" and close the enhanced protection feature in the system's Pure Mode before installation, as shown below.



Lovely Programs

Lovely Programs are built-in programs provided by the platform. Tap a program once to play it. Double-tap a program to view program details. After double-tapping, the available options are Select Play, Loop Play, and Download Pattern.





STARSHINE LIGHTS PRODUCT MANUAL

Device Programs

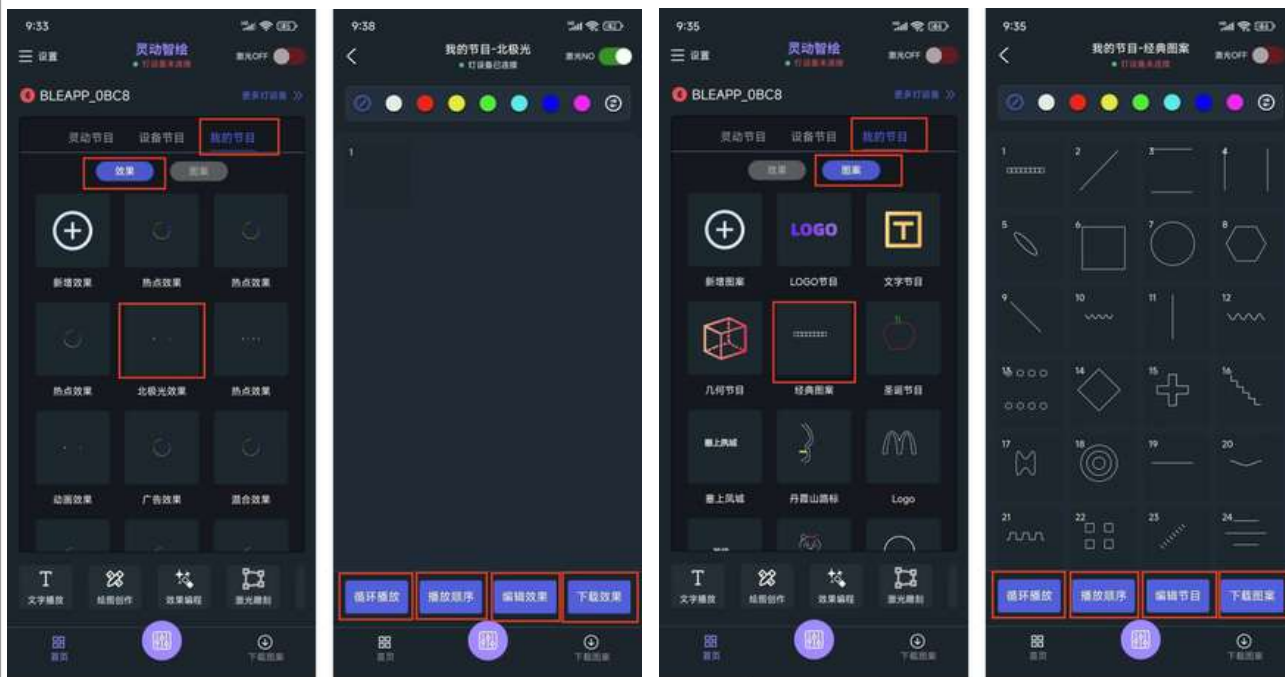
Device Programs are built into the light device. They are divided into three function categories: Light Effects, Patterns, and Console. The Console option is only available when the light device supports this function. Tap a category to switch functions. Tap a program once to play it. Double-tap a program to view program details. After double-tapping, the available options are Select Play, Loop Play, and Save to Light and Play.



My Programs

My Programs stores user-created programs. My Programs is divided into two function categories: Effects and Patterns. Tap a category to switch functions. Tap a program once to play it. Double-tap a program to view details.

- For an Effect program, the available options are Loop Play, Playback Order, Edit Effect, and Download Effect.
- For a Pattern program, the available options are Loop Play, Playback Order, Edit Program, and Download Pattern.





STARSHINE LIGHTS PRODUCT MANUAL

Bottom Navigation Bar Functions

The bottom navigation bar provides access to the main creation, playback, and control functions.

No.	Function	Description
1	Text Playback	Create custom text patterns and play them in real time.
2	Drawing Creation	Create custom patterns and play them in real time.
3	Effect Programming	Create custom effect programs and play them in real time.
4	Laser Engraving	Create custom laser engraving programs and play them in real time.
5	Scheduled Playback	Set playback cycles and playback times for scheduled program-list playback.
6	Image Conversion	Select or take a picture, recognize the image, and convert it into a laser pattern.
7	Moving Head Playback	Play and edit moving-head scenes. The light device must support this function.
8	Real-Time Control	Adjust light device parameters in real time.
9	Download Patterns	Download patterns stored in the program library to the light device.



Quick Reference

Item	Details
App name	Lovely Draw
WeChat Mini Program name	灵动智绘
Bluetooth device name format	BLEAPP_XXXX
Required first-use permission	Location permission: Allow While Using the App
Main program libraries	Lovely Programs, Device Programs, and My Programs

