Lumitool F20 Software Instructions

Contents

Lumitool

Lumitool F20 Software

Product Information

Specifications:

- **Product Name:** LumiTool
- **Manufacturer:** Shenzhen EARAIN Intelligent Equipment Co., Ltd.
- **Communication:** Bluetooth/Wi-Fi
- **Data Source**: Bitmap or Vector Map

Product Usage Instructions

Registration and Software Setup:

1. Open the PC software for the first time.
2. Agree to the user agreement and privacy policy to continue using the software.

Main Interface Overview:
After agreeing to the terms, you will enter the home screen with various functions:

- Local Pictures
- Cloud Pictures
- Local Vector
- Cloud Vector
- Text
- Hand-drawn
- Photo
- AI Vincent Map
- System Settings

Main Functions:

1. **Text Function:** Edit text, barcodes, or two-dimensional codes as marking data sources with options like normal, bold, italic, barcode, and two-dimensional code editing.
2. **Hand-drawn**: Add content to the Sketchpad for tagging with editing operations like last step, next step, empty canvas, overall reduction, and overall magnification.
3. **Local Photos:** Use local images from the device as data sources for tagging after placing them in the FilePush folder.
4. **Photo Function:** Take pictures using the device's bitmap as a data source for marking.
5. **Cloud Vector and Cloud Images:** Utilize vector graphs and images provided by the server as data sources for marking.
6. **Local Vector:** Use local PLT vector images from the device as data sources for marking after placing them in the FILEPUSH folder.
7. **AI Vincent Graphics Function:** Generate images by text description with this function.
8. **Print Settings:** Edit text, barcode, and bitmap with functions like outline, angle, line spacing, and direction adjustments.

Lumitool Description

LumiTool is a marking software based on Bluetooth/wifi communication developed by Shenzhen EARAIN Intelligent Equipment Co. , Ltd. . Support users in local or online form, using bitmap or vector map as a marking data source for marking.

First Open PC software, the first registration

The first time the software is opened, the user will be prompted whether they agree to the user agreement and

privacy policy. To continue using the software, select“Agree to the agreement and continue”.

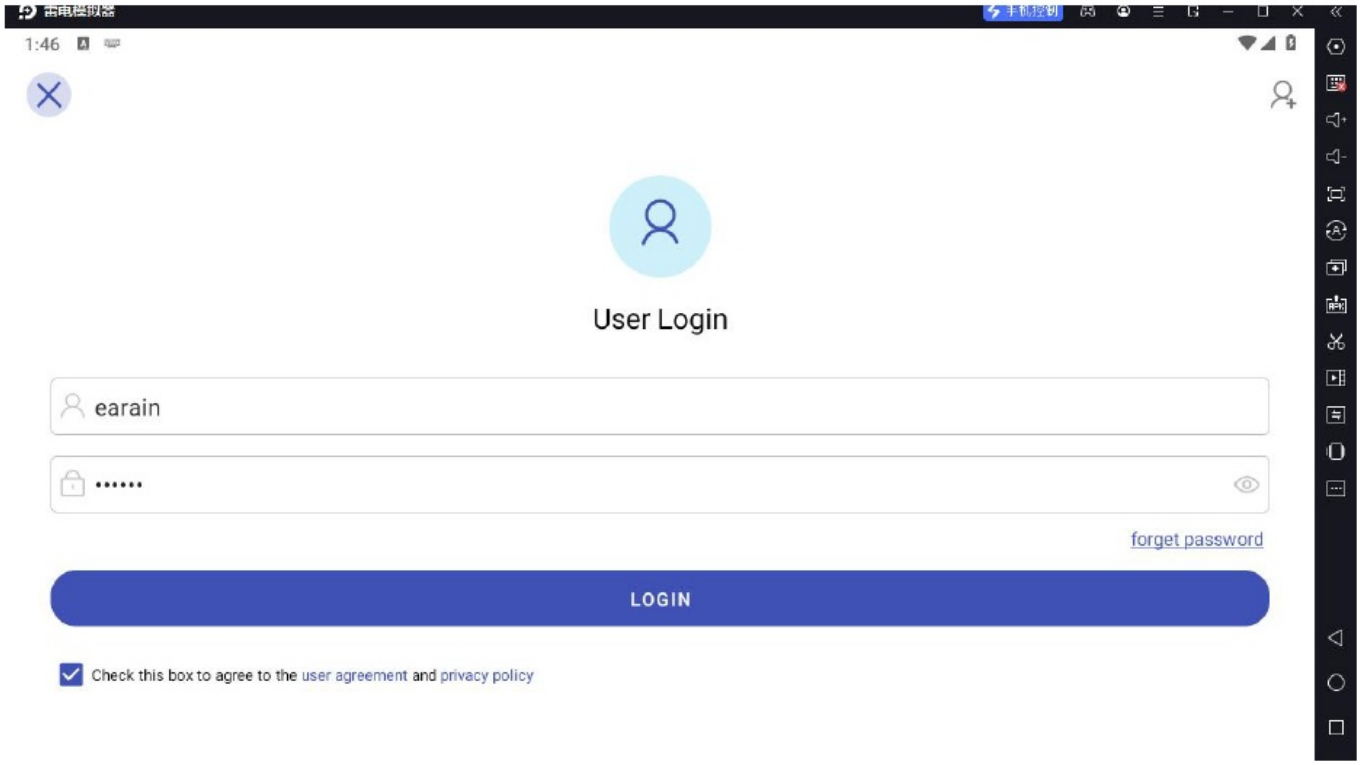


Figure 1

Second, the main interface

Click on [agree to the agreement and continue] , after the installation of the software to enter the home screen. Home page interface including local pictures, cloud pictures, local vector, cloud vector, text, hand-drawn, photo, AI Vincennes map, system settings and other functions. See Figure 1 for details

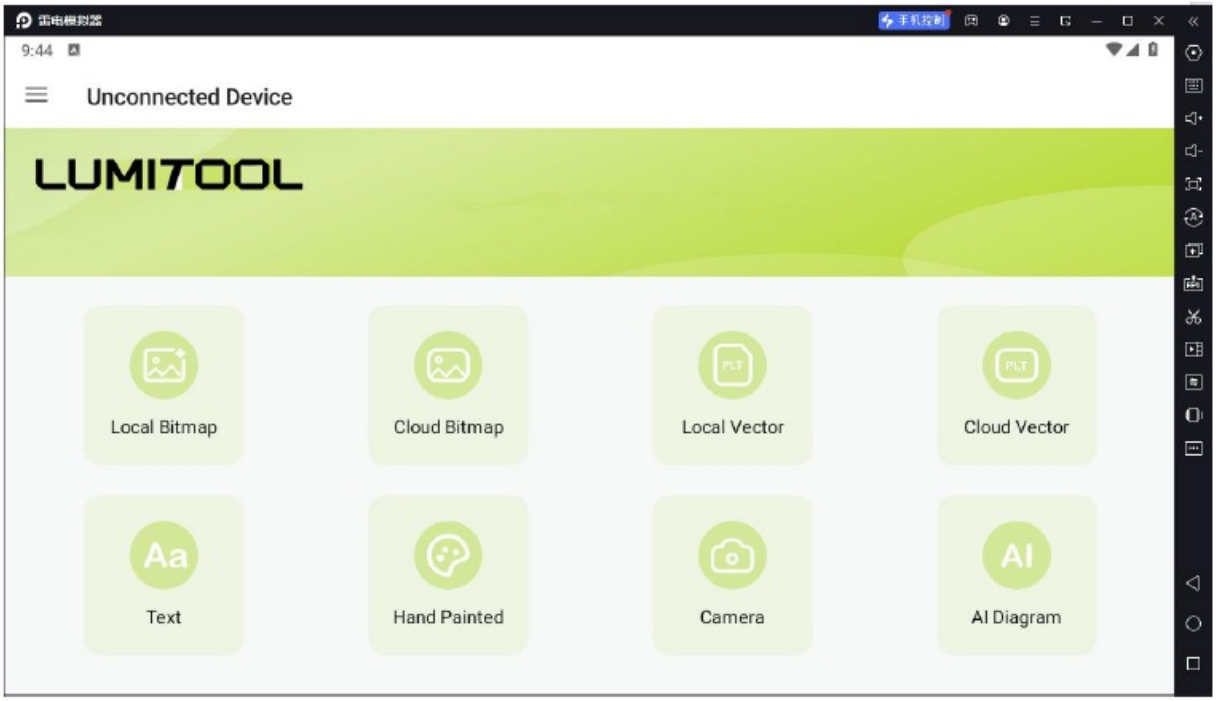


Figure 1

Introduction of the main functions

Text
Text function of the user-edited text, bar code or two-dimensional code as a marking data source. See diagram

Figure 2. Figure 3.
Text function can choose [normal][bold][italic][bar code][two-dimensional code] a total of 5 editing functions to edit one. Where the text can choose [normal][bold][italic] for editing, you can also choose the system to provide Or user-defined. Font file with TTF suffix.

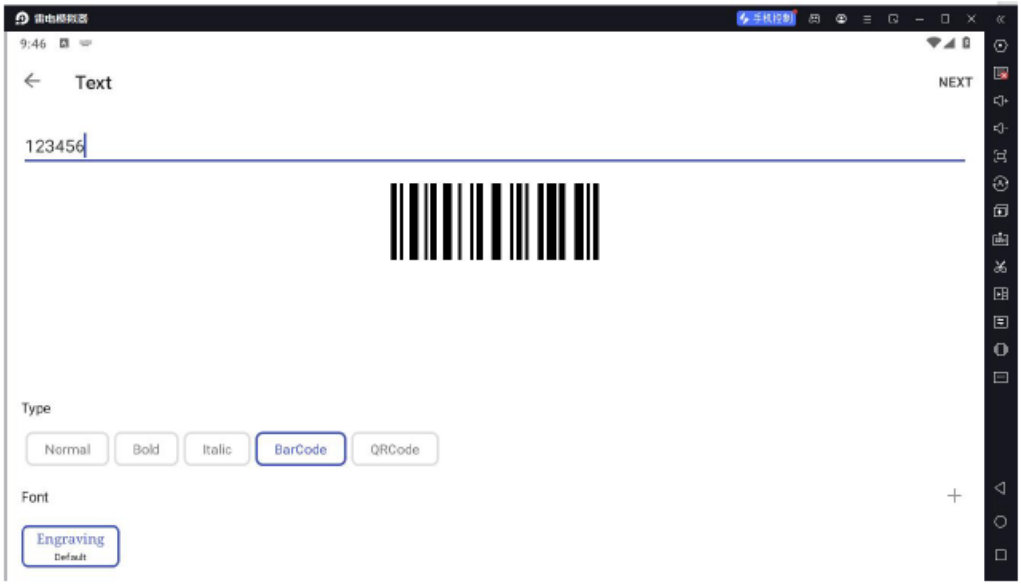


Figure 2

Figure 3

Hand-painted
In sketching, users are free to add content to the Sketchpad as a data source for tagging. Hand-drawn to support the user in drawing the [last step][next step][empty canvas][overall reduction][overall magnification] editing operations. See Figure 1 for details

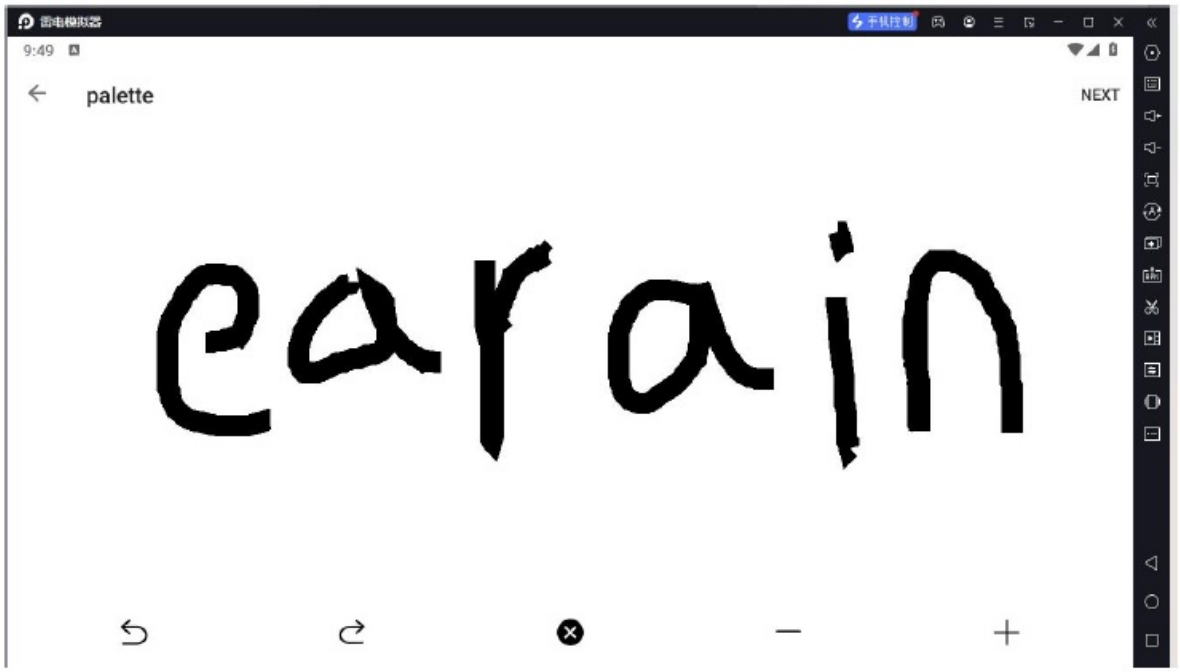
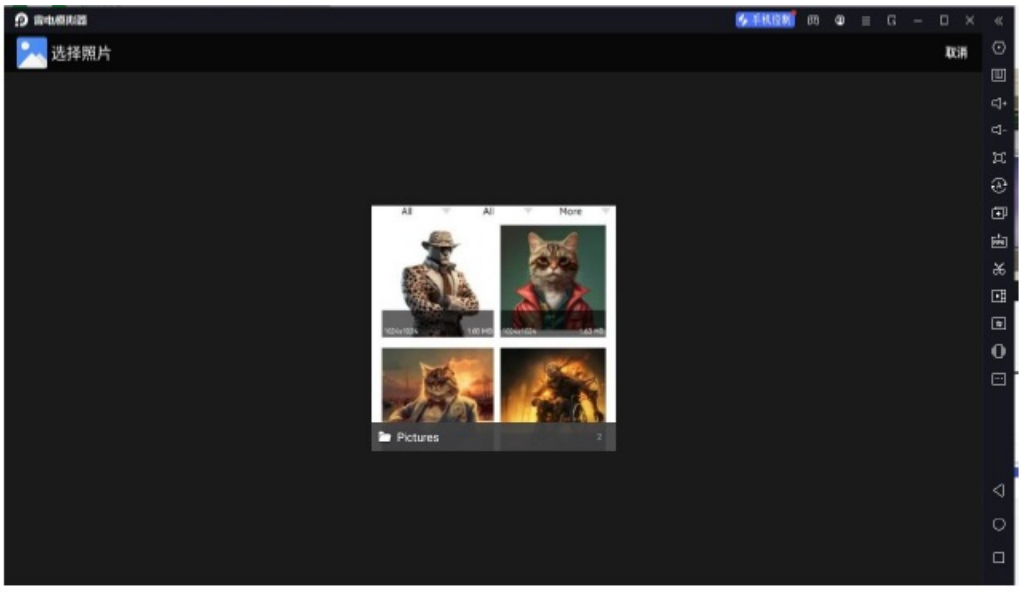


Figure 1

Local photos
Images use the user's device's local image as a data source for tagging. See Figure 1.

Note: You Need to put the image file into the FilePush file before you can use the local image function in PC software



the photo function (PC software does not support the photo function)
Taking a picture uses the bitmap taken by the user's device as the data source for marking. See Figure 1 for details.

Cloud vector
Cloud vector takes the vector graph provided by the server as the data source for marking. See Figure 1 for details

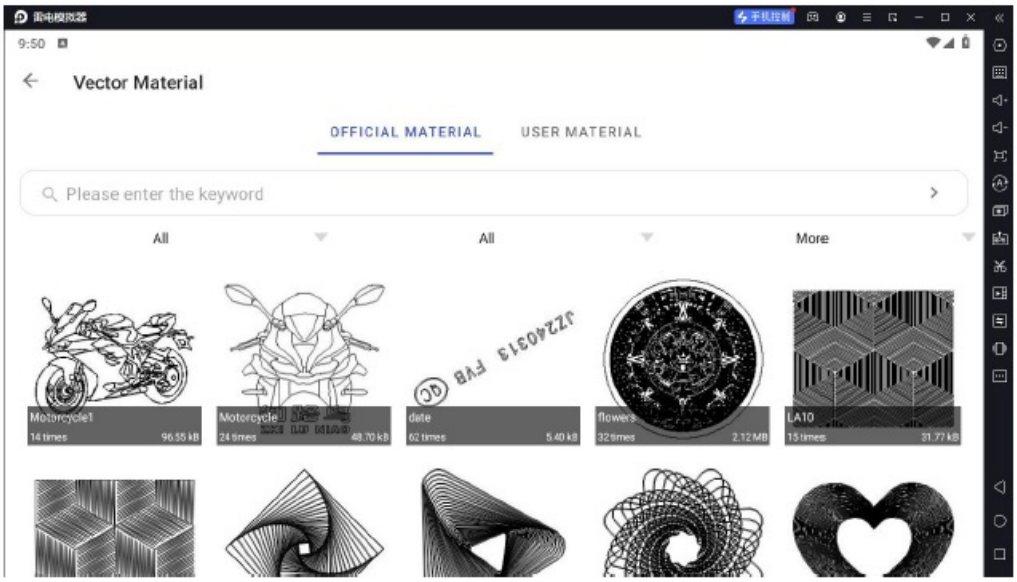


Figure 1

Cloud images
Cloud images use images provided by the server as a data source for tagging. See Figure 1

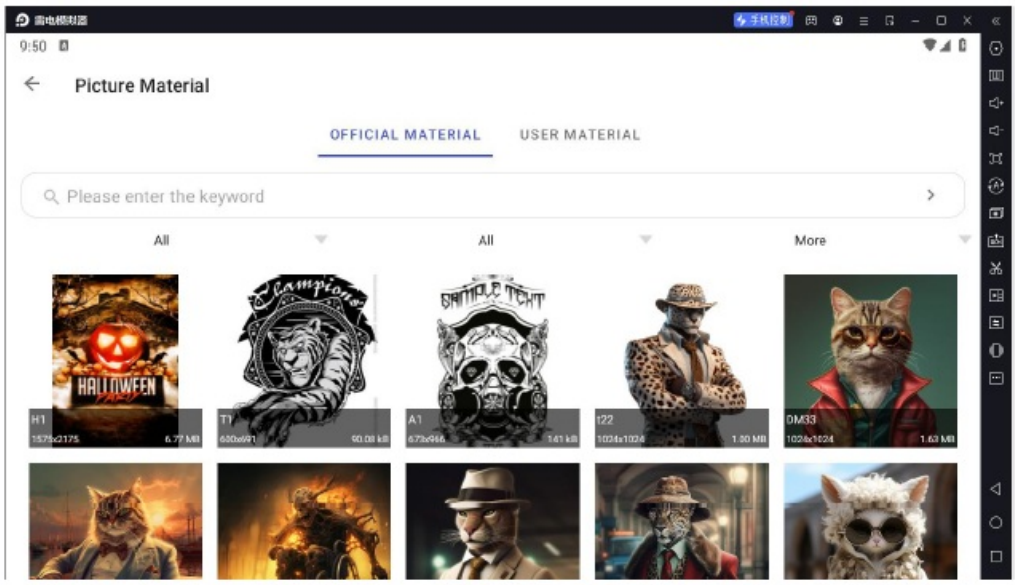


Figure 1

Local vector
Local vector material: the local PLT vector image of the user's device is used as the data source for marking. See Figure 1 for details

Note: you need to put the vector file into the FILEPUSH file before you can use the local vector image in the PC software local vector

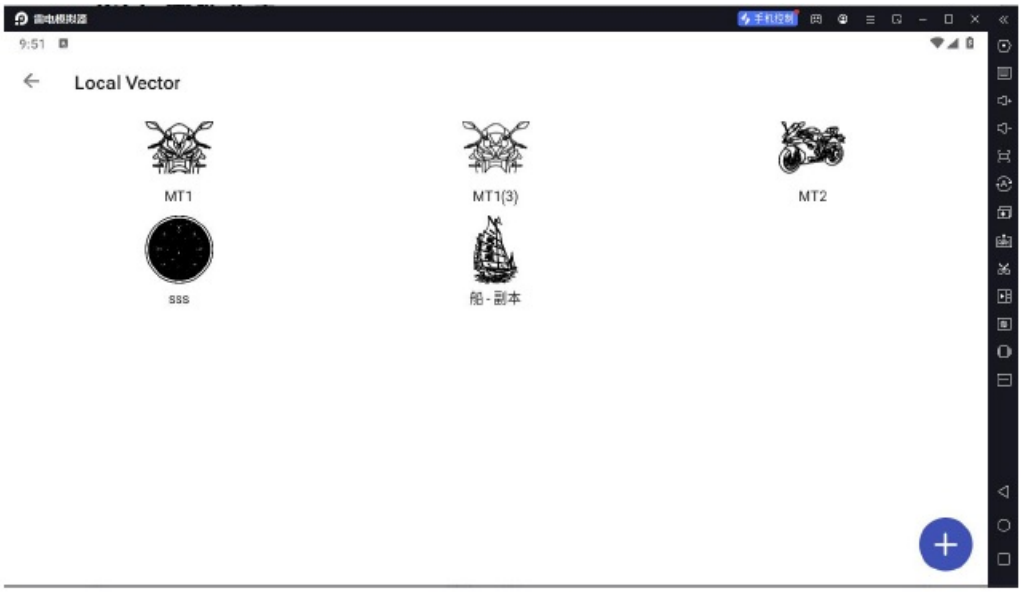
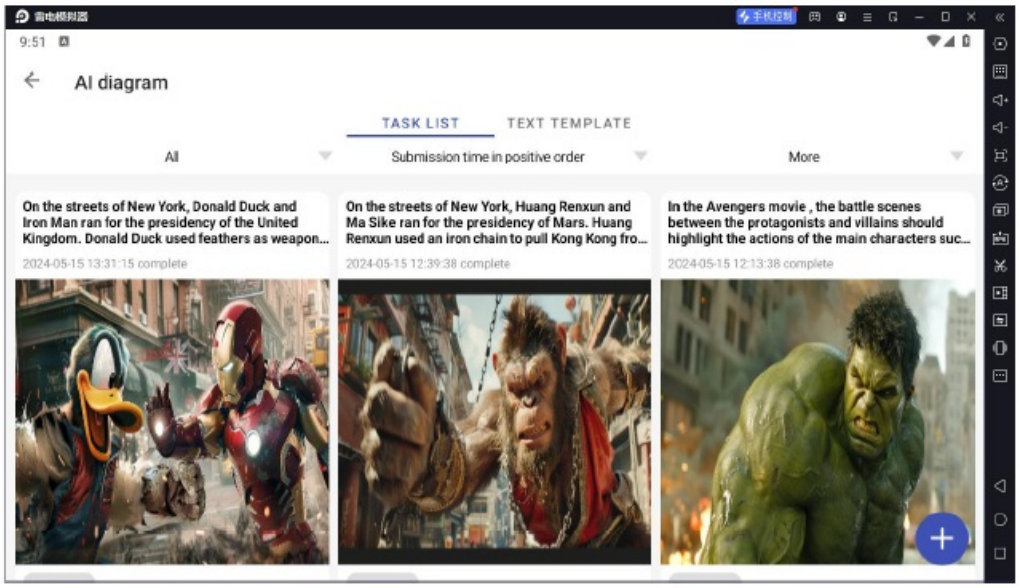
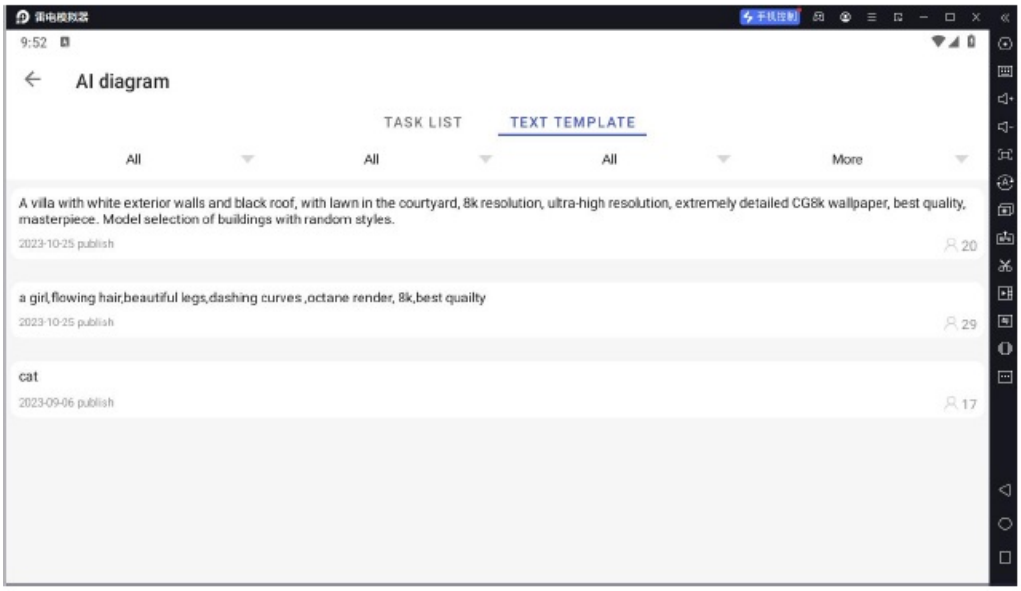


Figure 1

Generate images by text description with Ai Vincent graphics function,

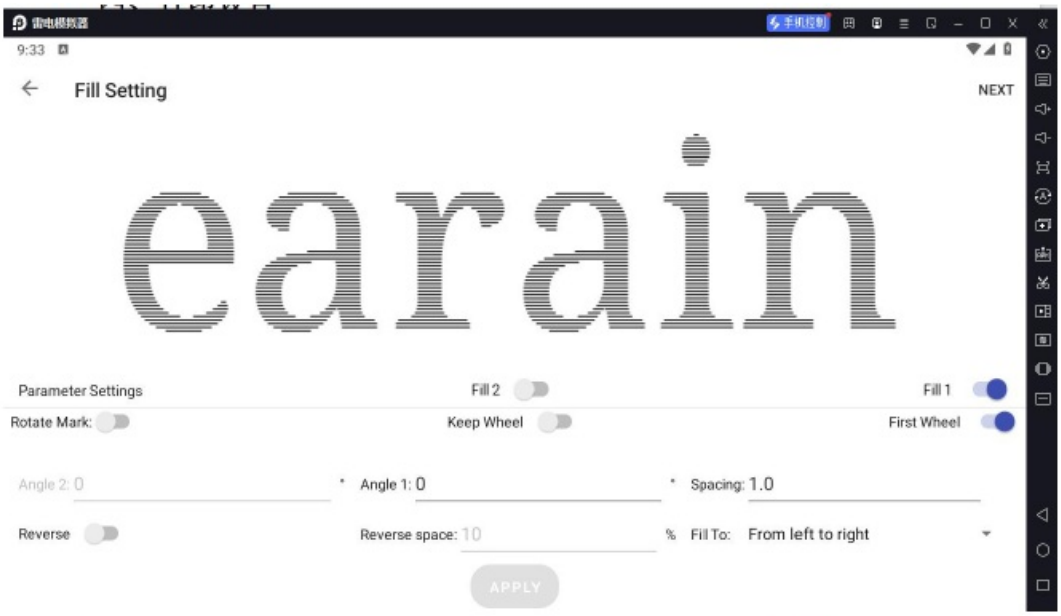


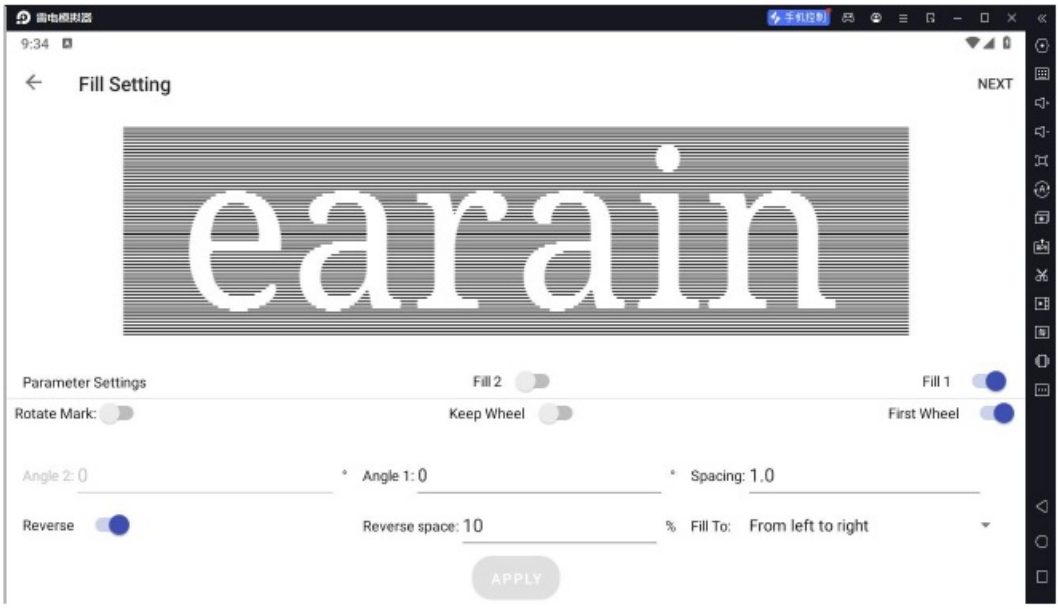


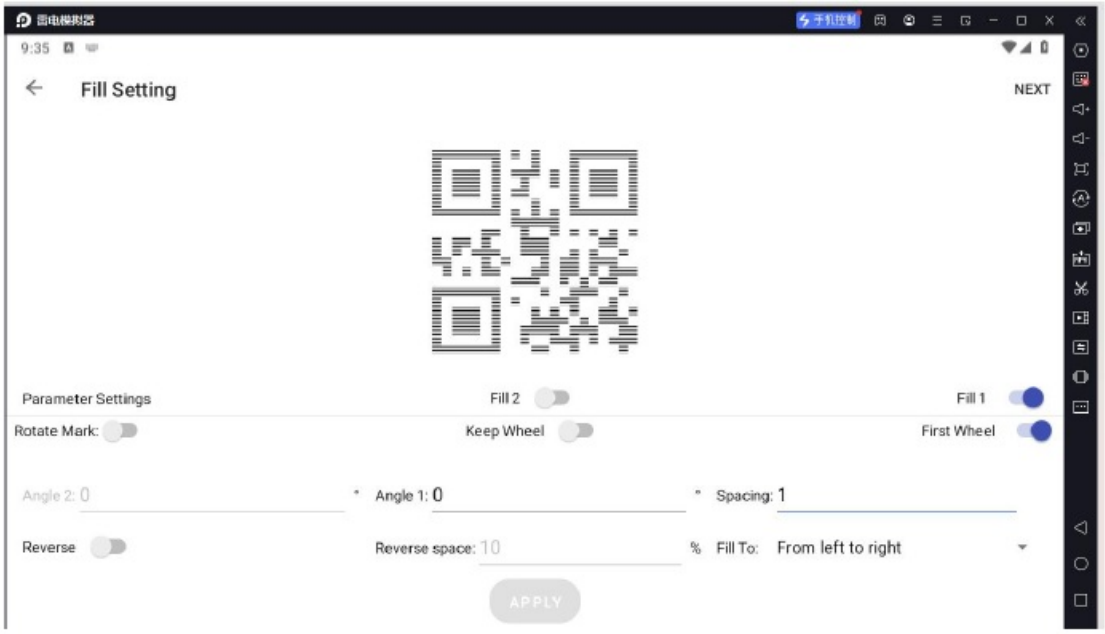
Print settings

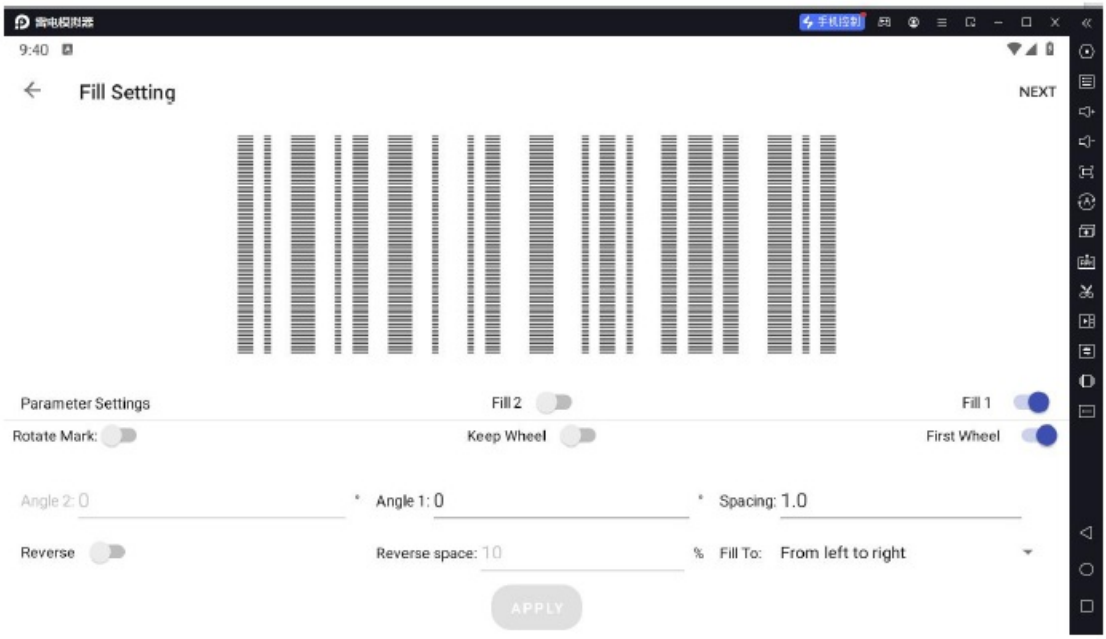
text and barcode fill editing

In the text module, text, bar code two-dimensional code editing can be completed after filling editing, [keep outline][hit outline first][fill angle][fill line spacing][fill direction] and other functions



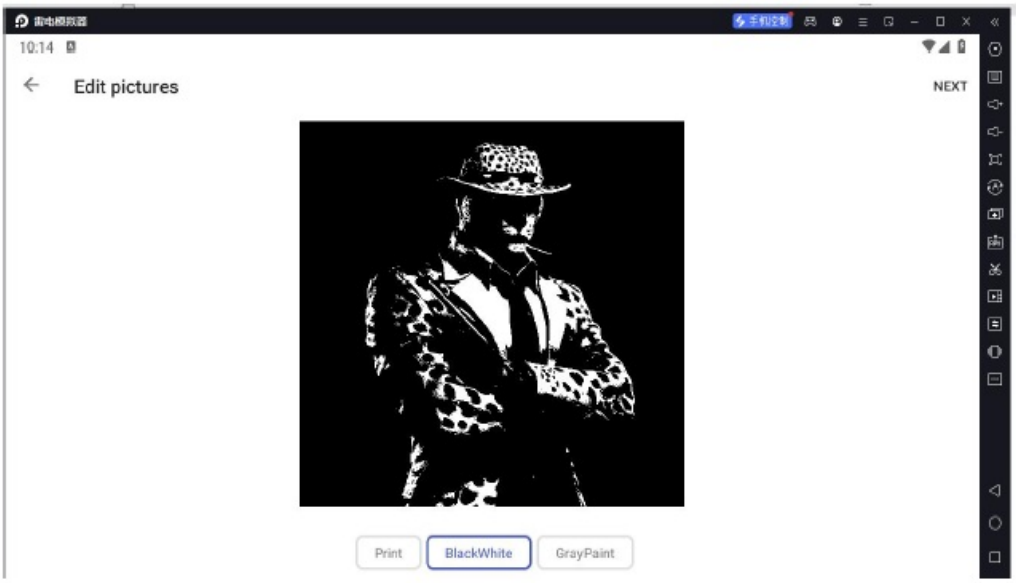




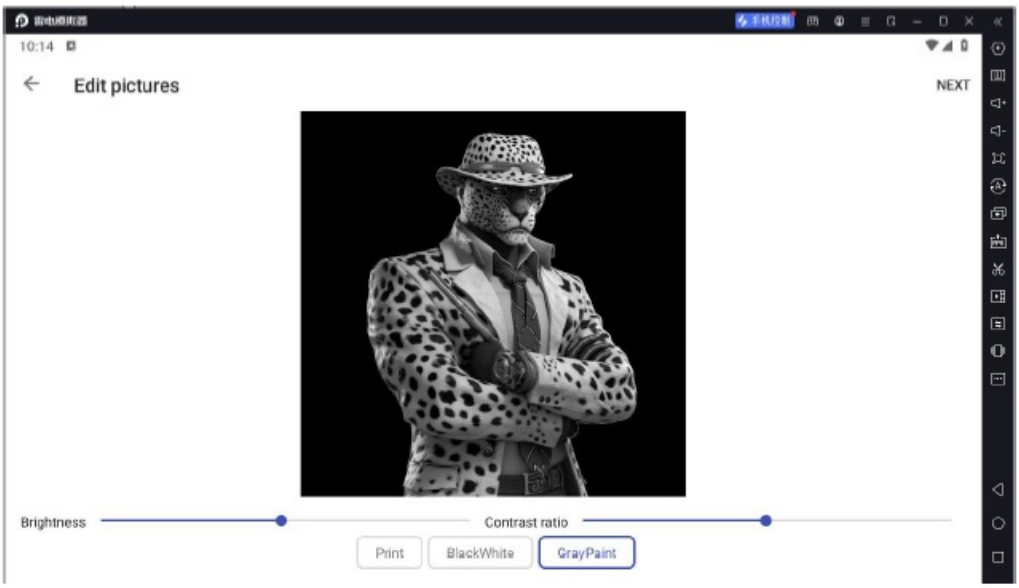


bitmap editing

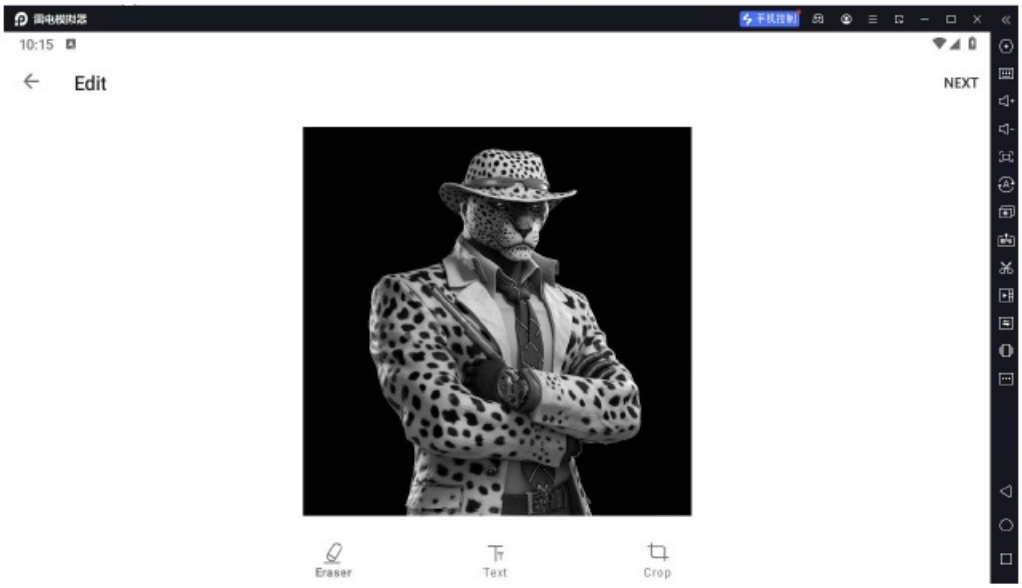
Edit bitmap [Black-and-white painting][grayscale painting] after the next step can be a detailed editing of bitmap such as [Eraser][text editor][crop] and other functions. See the graphic (the print function is not available yet)



Black and white



Grayscale painting



Eraser, text editing, cutting

print settings

Software connection:

1. turn on the Machine Power Start button;
2. find the network name of the card in the WLAN connection settings on the PC side; Note: The network name of the card is unified with the beginning of LM, network default password: 0000000
3. Up and down adjustment machine laser focus;
4. Click on print, and the machine will do the laser marking. See below

Figure 1 network connection

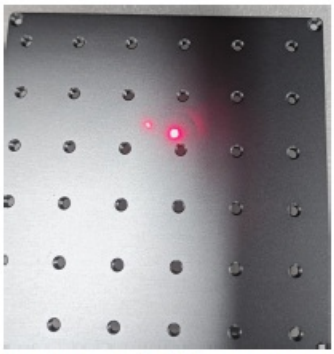


Fig. 2 the two red dots are not separated at the laser focus

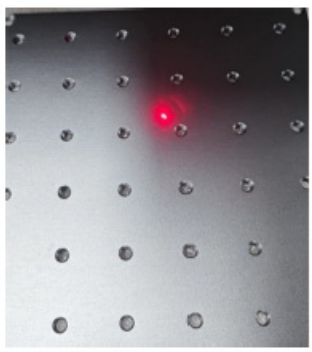


Fig. 3 the laser focus (the two red dots overlap at 1 point)

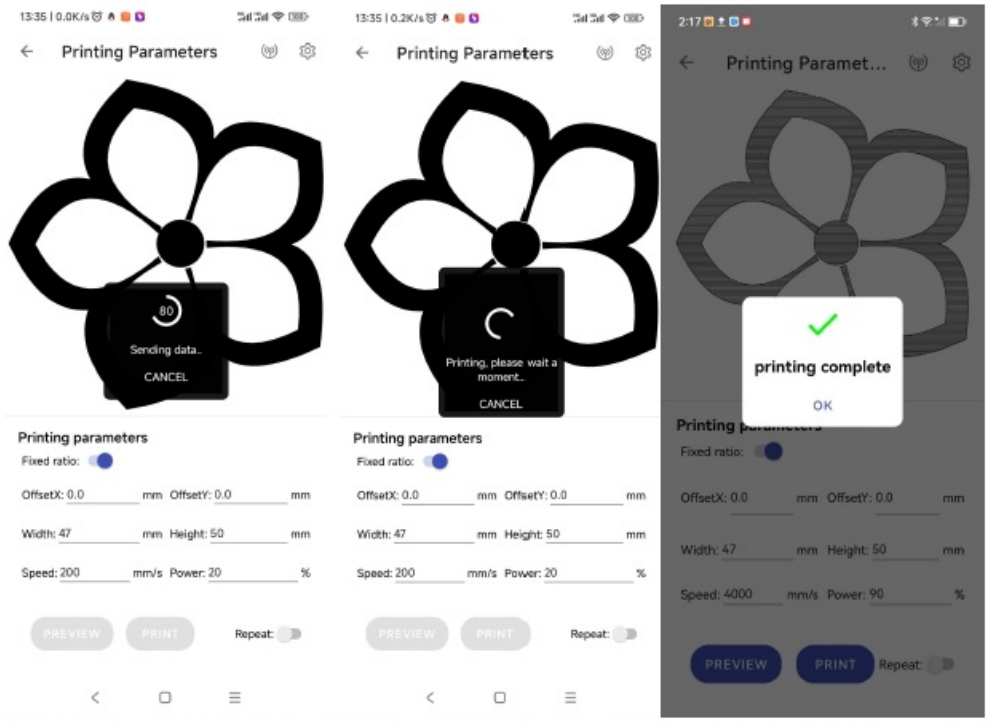


Figure 4 click print, send print data in figure 5 print process in Figure 6 print

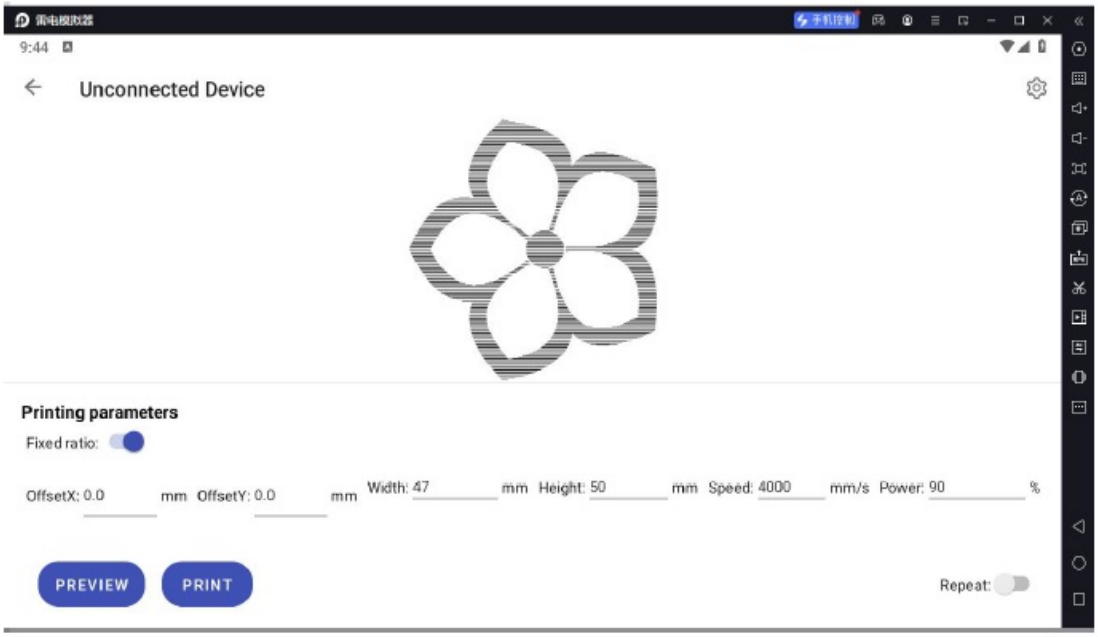


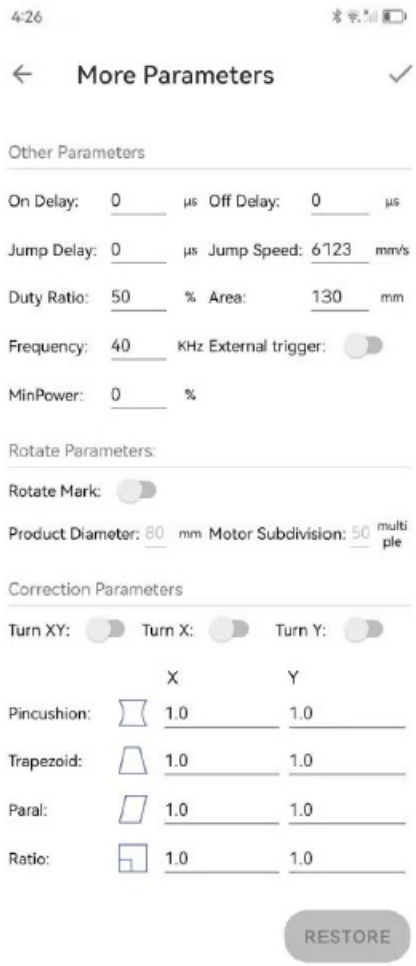
Figure 7

laser parameter setting

- **Fixed ratio**: when enabled, change the size of the printed content to equal ratio, which should be used in conjunction with the width and height
- **Offset**: move the position of the printed content in the X and y directions
- **Width and height**: set the size of the current print to match a fixed ratio
- **Speed**: laser print speed
- **Power**: output power of the laser
- **Preview**: gives an outline indication of the current content
- **Print**: transfer the marking data to the card and laser print it

- **Repeat engraving:** Laser printing cycle an infinite number of times

parameter settings
The following picture shows the default parameter settings of the fiber laser (after changing the parameter settings, you need to click save to be effective)



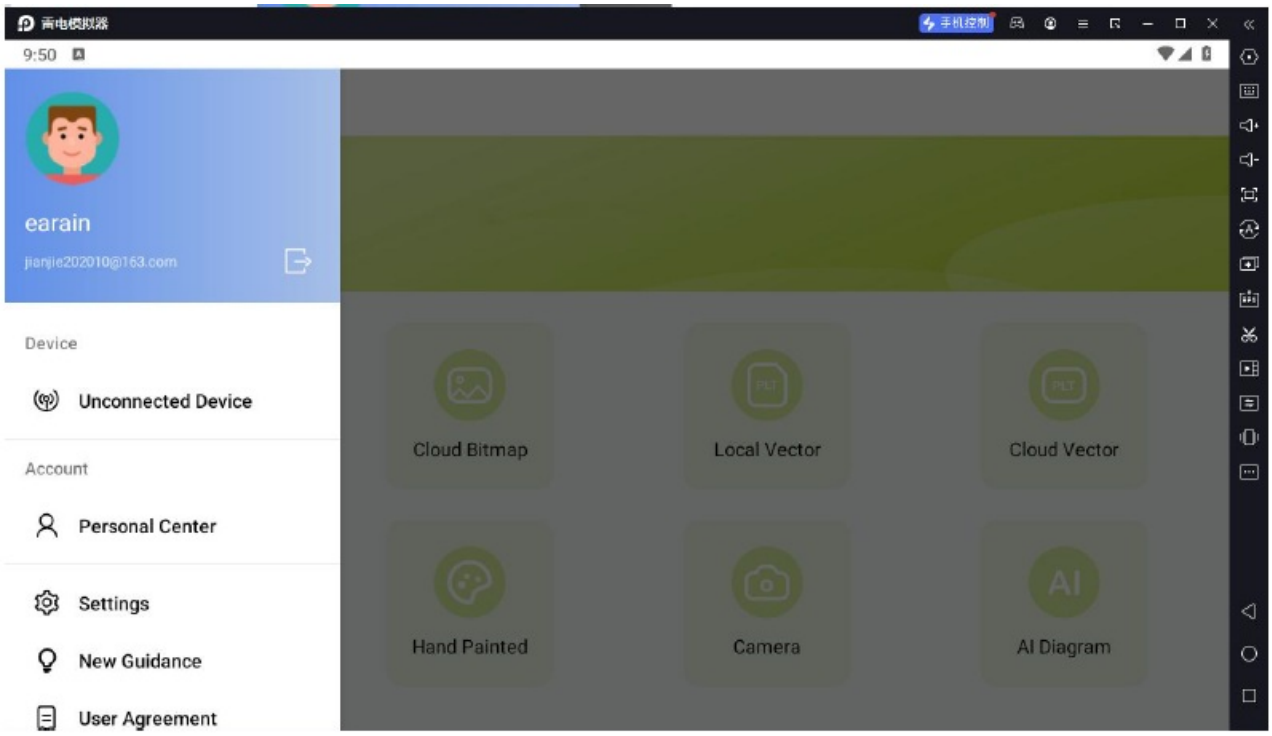
- **Open delay:** adjust the system from the starting point of the movement to the laser out of the time difference, time is too short-the beginning of the line did not mark, the time is too long-the beginning of the line mark too heavy
- **Off delay:** adjust the system at the end of the laser, the movement to the end of the time difference, time is too long-line end too heavy marking, time is too short-line end there is no marking
- **Jump delay:** adjust the time difference between turning and turning. Too short a time-the corner will turn into an arc.

Too long corners will be overmarked

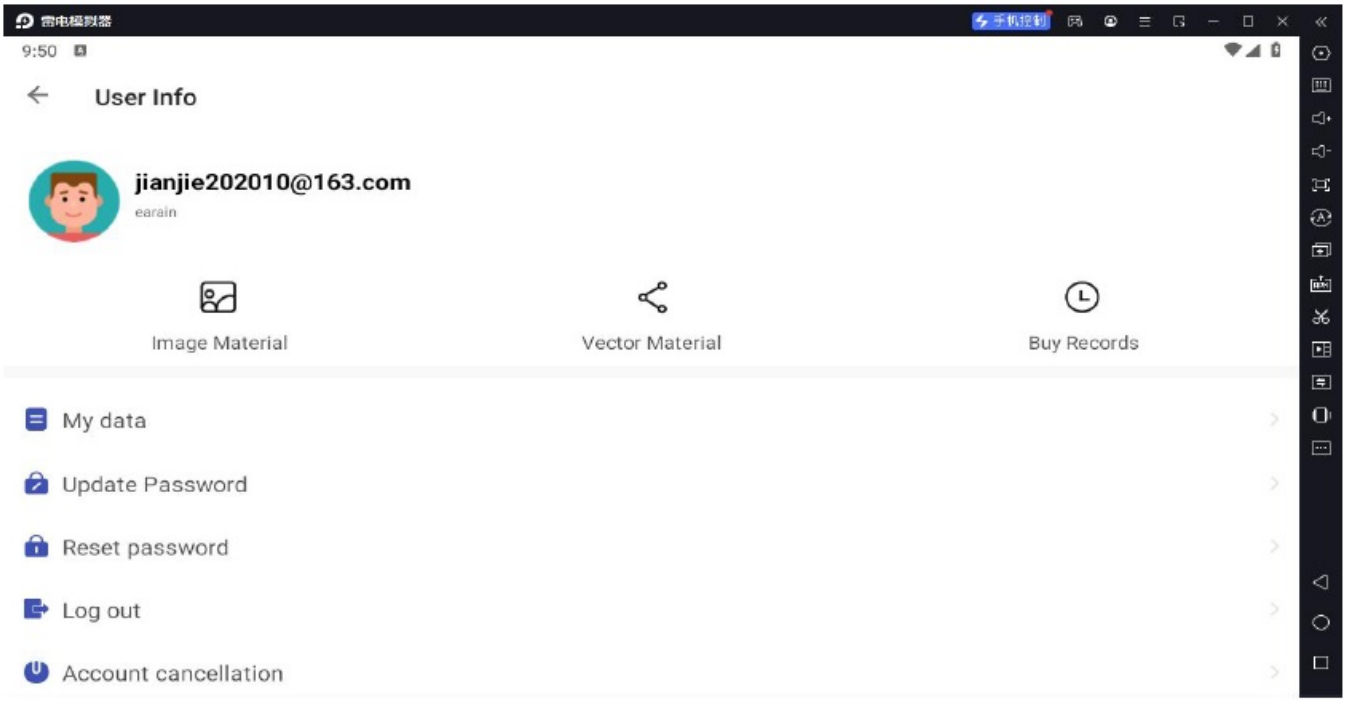
- **Jump Speed:** the jump speed of the mirror when the pen is empty
- **Duty Cycle:** laser light duty cycle
- **Range:** range of field mirror output size
- **Frequency:** the output laser frequency
- **External Trigger:** button-triggered marking; note: after enabling the need to click a print can be used button-triggered marking

- **XY interchangeability:** choose to change the arrangement of text and graphics

System settings



- **Unconnected device:** Bluetooth-connected marker
- **Personal Center:** manages personal account information, passwords, purchased products, etc. Setting: setting the system language
- **Novice Boot:** software boot operation
- **User Protocol:** User Protocol introduction
- **Privacy Policy:** information about your privacy
- **Magical MM version:** view current software version information
- **About:** Frequently Asked Questions



Personal Center: manages personal account information, passwords, purchased products, etc.

Up and down button

FAQ

Q: Can I use both bitmap and vector maps to mark data sources simultaneously?
A: Yes, LumiTool supports using both bitmap and vector maps for marking operations.

Q: How do I access the photo function on PC software?
A: The photo function is not supported on PC software; it is available for taking pictures using the device's bitmap as a data source.

Documents / Resources

	Lumitool F20 Software [pdf] Instructions F20 Software, F20, Software
	LUMITOOL F20 Software [pdf] User Guide F20 Software, F20, Software

References

- User Manual