

Laser Engraving APP

Instruction Manual



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Versions

Version No.	Revision Record
Laser_V_1.0.13	First edition Added online update version function
Laser_V_1.0.19	Updated Pictures



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1 System Overview

Laser Engraving Mobile APP is an APP control software running under the Android and Harmony OS operating systems. Install the application, through the wireless WiFi and the control board to establish connection, in order to achieve the purpose of laser engraving machine control.

The mobile phone control terminal and the laser engraving and cutting control motherboard are connected through a wireless router. The mobile phone connects to the wireless router through WiFi or connects to the WiFi provided by the motherboard. Convenient for customers to control the motherboard for remote operation without having to go back to the workbench each time through the panel to control the system, greatly improving the work efficiency. At the same time, it works in parallel with the control panel without interference.

2 System requirements, configuration, and

Precautions

2.1 System Requirements

Mobile operating system: Android 4.0, Harmony OS 2.0.0 or later
Laser engraving and cutting control card firmware version:

TL-A1	V.L020.015
TL-A3	V.L021.021
TL-A4	V.L019.027

Note: The APP should be used with the above firmware version and later versions, otherwise, some functions (frame) may be invalid and other problems.

2.2 Precautions

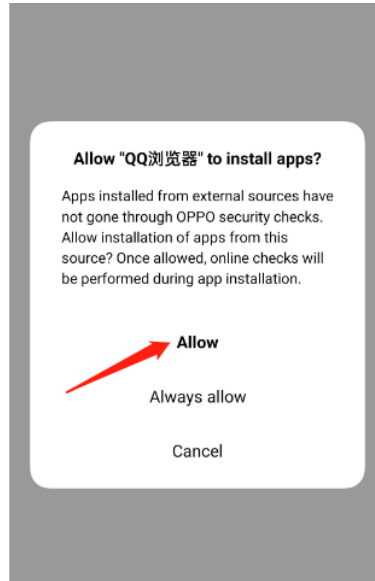
Mobile phone connection control motherboard WiFi when the signal does not take the Internet function and mobile phone WiFi generally opened the disconnection automatically connected to the network WiFi signal or switch to the data flow, so the use of this WiFi signal, need to turn off the mobile phone WiFi automatic switch function or turn off the data flow in advance.

3 Software Installation

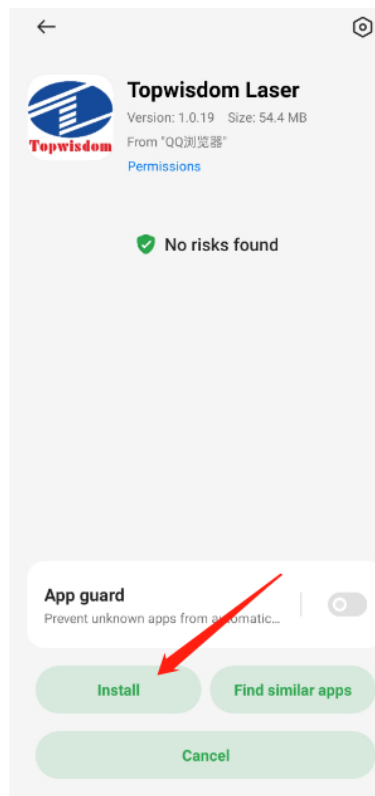
For the first installation, click laser_release_v1_0_19.apk to install it, as shown below:



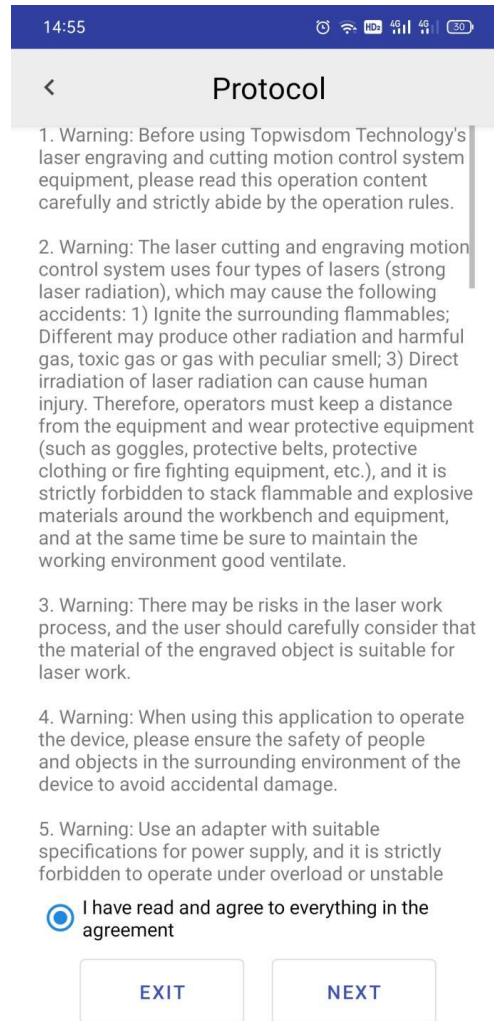
The interface as shown below pops up. Click "Allow" to continue installation.



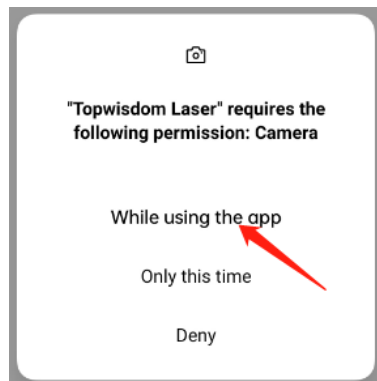
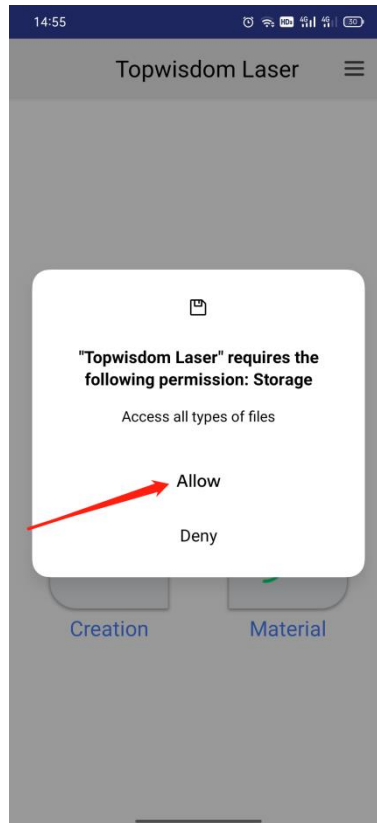
Prompt installation success, click “Install”, as shown in the picture:



Read the Service Agreement carefully and check the box "I have read and agree to all contents of the Agreement", then click Next. As shown in the picture:

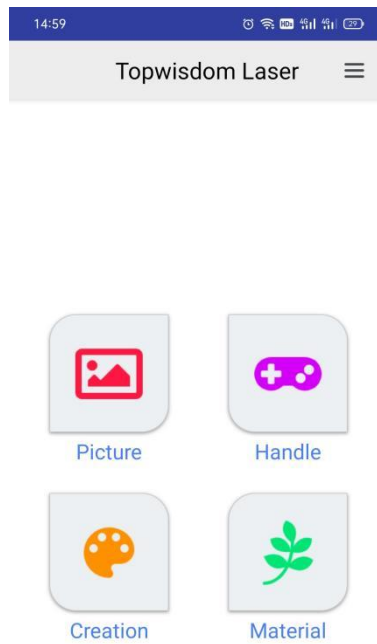


Allows laser engraving to access camera features:

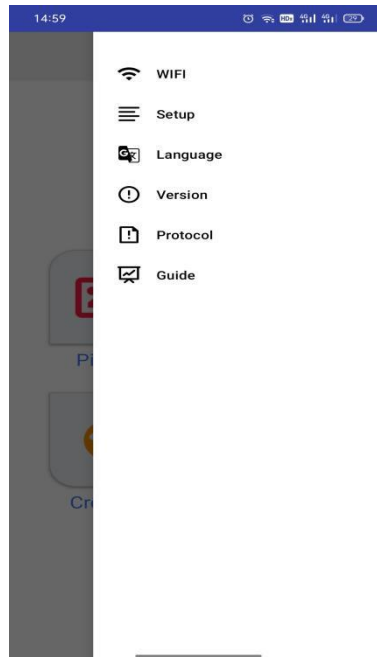


4 Software operation Description

4.1 System Settings



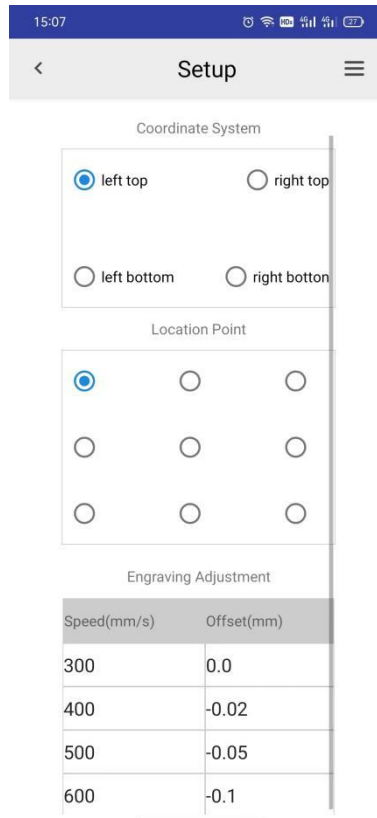
Click the icon in the upper right corner to enter the setting interface, as shown in the picture:



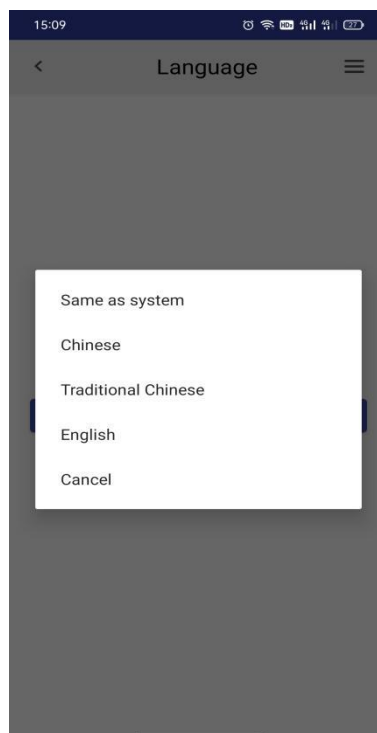
WiFi connection: Enter the IP address, which must be the same as the IP address of the control board. Click "Connect" and prompt success, otherwise fail.



Gap setting: The coordinate system must be consistent with the machine, otherwise the image will be sent. The carving gap is the reference value provided by the software at different speeds. If it is not needed or different, it can be changed manually. As shown below:



Language: The software supports Same as system, Simplified Chinese, Traditional Chinese, English.



Version: 1.0.19 The software supports online updates. Click Update to check whether the version is new. As shown below:



Current Version: 1.0.19

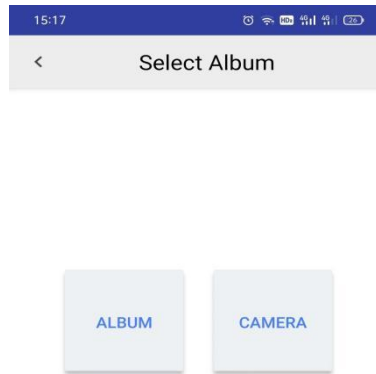
UPDATE

Protocol: Please read and abide by the agreement carefully during or after installation to avoid unnecessary misunderstanding or injury.

Guide: When using the product for the first time, please complete the guidance process so that you can better use the product.

4.2 Picture

Click the picture to enter the picture selection interface, as shown in the picture:

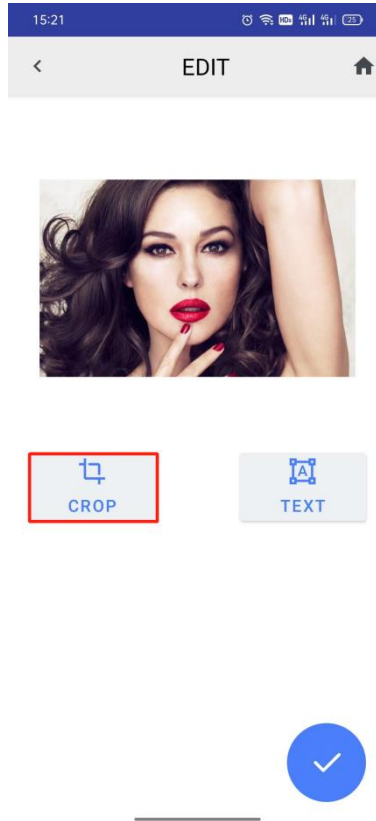


ALBUM: Enter the mobile phone album to select the photos to be processed.

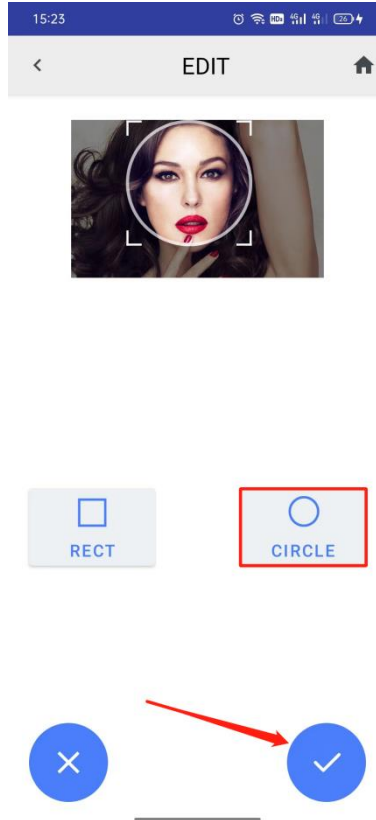
CAMERA: Enter the camera interface of the mobile phone to take photos so that you can create anytime and anywhere.

After confirming the image, you can enter the editing interface to "crop" and add "text". After confirming the image, you can process grayscale, black and white, dot, scatter, brightness, contrast and other properties of the photo in the mode setting interface. After confirmation, you can set the width, height, speed and power of the graph in the file setting interface, and you can also predict the working time, save it and download it.

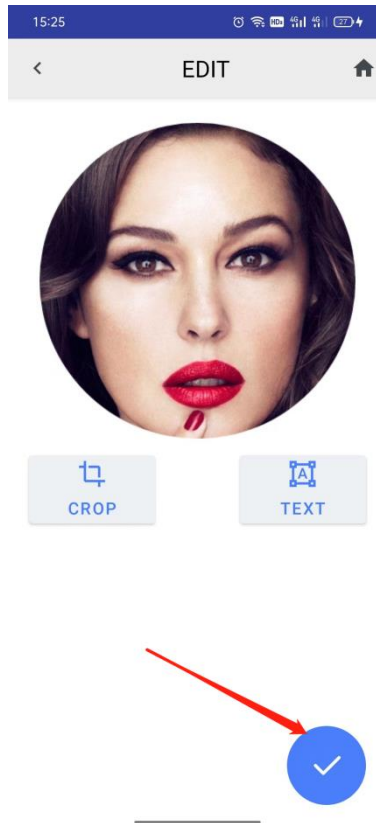
Select the photo and crop it. As shown below:



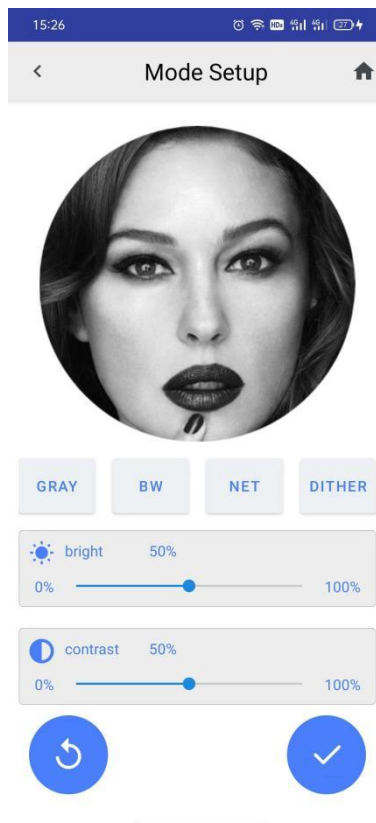
Select circle here for cutting mode, as shown in the figure:



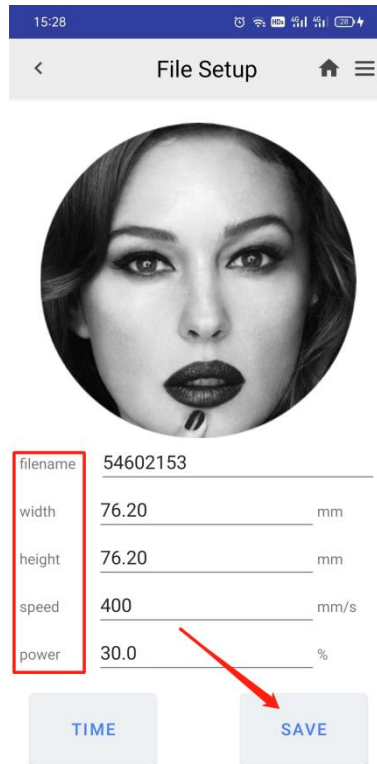
Check "Confirm", as shown in the picture:



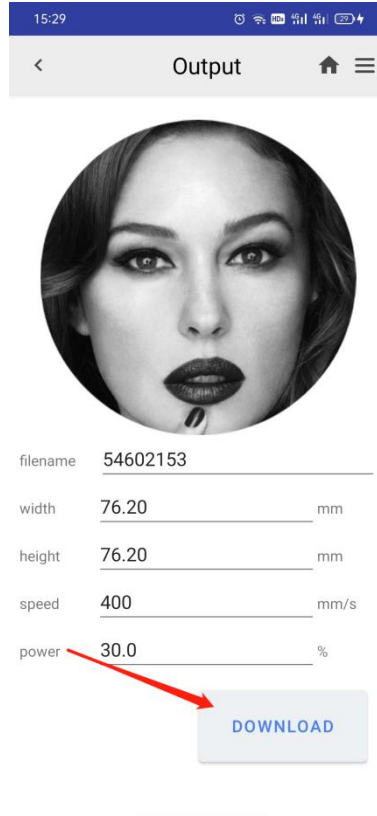
Edit the graphic properties, gray scale, black and white, dot, scatter, brightness, contrast and other graphic properties check to confirm. As shown below:



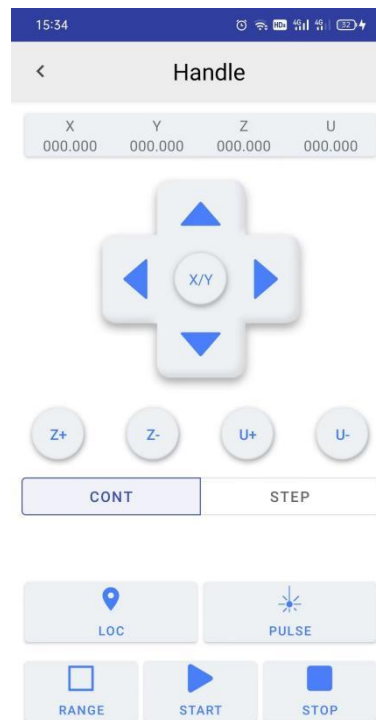
After setting file name, width, height, speed, and power, select Save. As shown below:



After confirmation, output to the control board. As shown below:



4.3 Handle



X/Y/Z/U: Displays the real-time coordinates of the four axes.

CONT/STEP: In continuous mode, press and hold the arrow key to move the axis, release the key and stop the movement. Click, click mode, press the key, the axis will move the "click distance" specified length, you can choose (1mm,10mm,50mm) .

PULSE: Test use, click once, light once. Used to adjust the optical path and power.

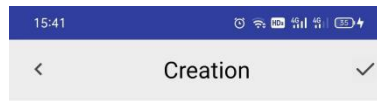
LOC: Manual key positioning, corresponding motherboard buzzer will sound.


RANGE: Tests the current file processing range.


START: Process the current file.

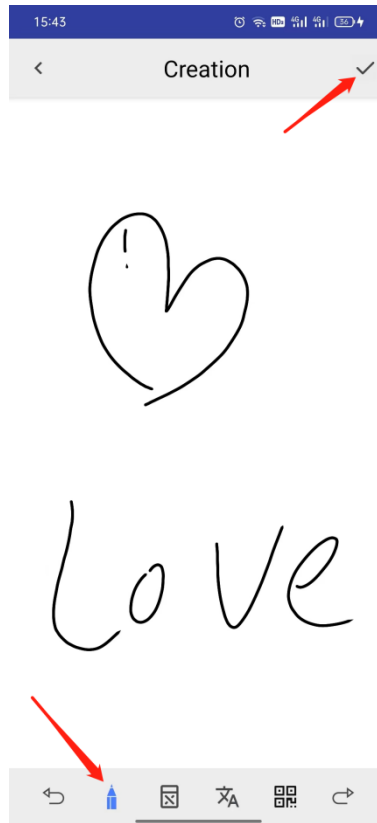
STOP: To withdraw from work or exercise.


4.4 Creation




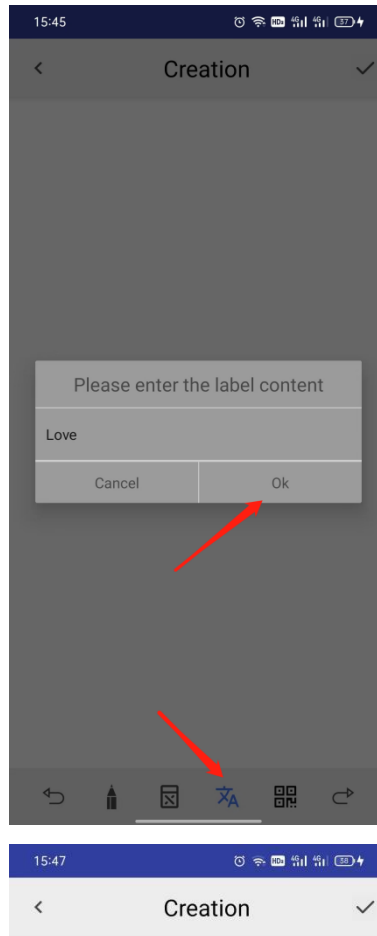
 : Returns the last operation.

 : Brush, can be created in the blank, click this icon to change the brush size. As shown below:




 : Know everything.

 : Click on a blank space to enter text, and double-click the icon to change the font. As shown below:



Love



 : Generate a QR code. As shown in figure:



: Restore the previous operation.

4.5 Material

The software comes with common materials for you to choose.

