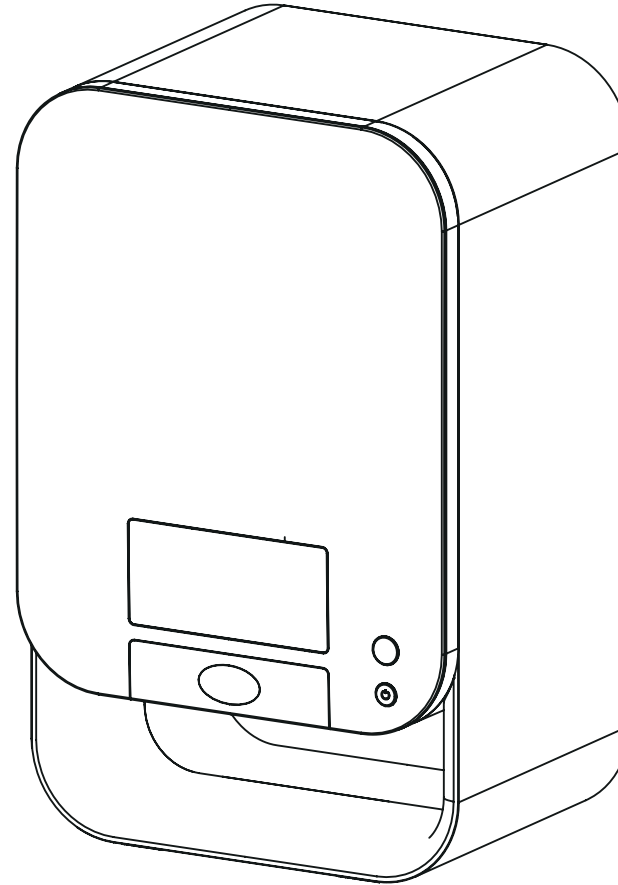


K9 User Manual



K9 Laser Engraving Machine User Manual
Please read this user manual carefully before use

Safety Instructions

Warning

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Statement

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Caution use of controls or adjustment of performance of procedures other than those specified herein may result in hazardous radiation exposure.

Safety Instructions

Thank you for choosing our laser engraving machine, which is a high-tech optical-electric mechanical equipment. Please read the user manual carefully and follow the instructions for better use and maintenance of the equipment.

Important Statement!

All losses resulting from improper use or failure to follow the manual instructions shall be borne by the user itself. Our company owns the final interpretation right of the user manual as well as the right to modify all the items, data and technical details in this user manual.

Safety Precautions

- ★The operator must read the user manual carefully before use and strictly abide by the operation instructions.
- ★Risks may exist in laser processing and the user should carefully consider whether the object is suitable for laser processing.
- ★The object to be processed and corresponding emissions shall comply with the requirements of local laws and regulations.
- *This machine adopts four types of laser equipment (strong laser radiation), which may cause the consequences as follows:
 - ①Ignite the ambient combustibles;
 - ②Other radiation or toxic and harmful gases may be produced during the laser processing of different objects;
 - ③Direct exposure in laser radiation can cause physical injury. Fire-fighting equipment must be available on the site. It's prohibited to stack flammable and explosive materials on the workbench and around the equipment. At the same time, the site must have good ventilation.
- *The place to use the machine should be dry, free from interference and influences by pollution, vibration, strong electricity and magnetism. Ambient temperature should be 10-35°C and humidity should be 5-95% (no condensing water)
- ★Working voltage: AC100-240V.
- *The engraving machine and other related equipment must be safely grounded before it switched on for operation.
- ★The machine must be fully monitored during the whole operation process. All power must be cut off before personnel departure to prevent abnormal consequences. In case of any accidents, please cut off the power immediately!
- *It's prohibited to place any irrelevant objects with total reflection or diffuse reflection in the machine to prevent the laser from being reflected to human body or flammables.
- *Keep the machine away from electrical equipment which is sensitive to electromagnetic interference, otherwise the electromagnetic interference may occur.
- *Laser machine has high voltage or other potential dangers, it's prohibited to be disassembled by non-professionals.

Safety Instructions

Pay attention!



1. When the laser is turned on, it's prohibited to aim at humans, animals and flammables to avoid skin burns and fire.



2. The laser brightness is harmful to the eyes. Do not look directly at the laser.

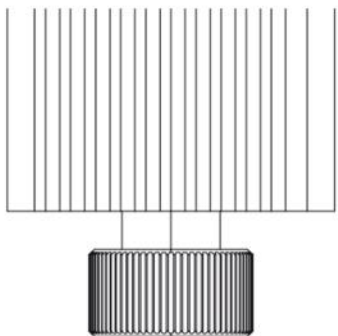


3. Keep hands away from the machine during operation to avoid injury.



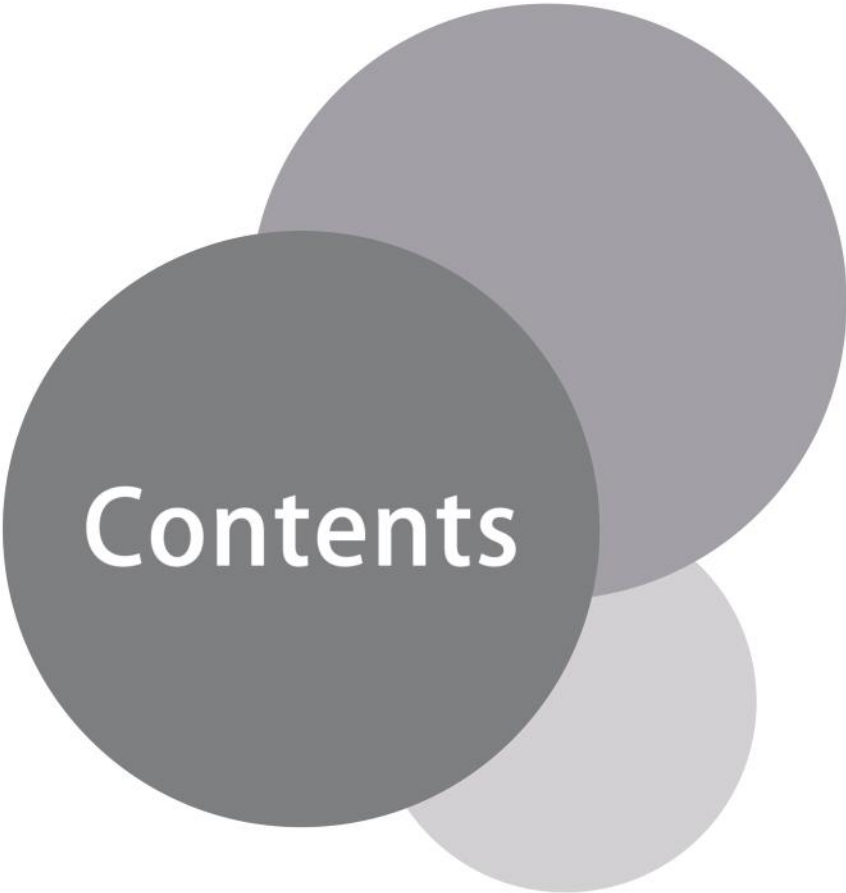
4. Turn off the machine when it is not in use to avoid misoperation by third parties.

Maintenance



Laser head is consumable. It's recommended to keep the machine power off for 10 minutes after 4-hour engraving and keep the machine power off for 10 minutes after 1-hour cutting.

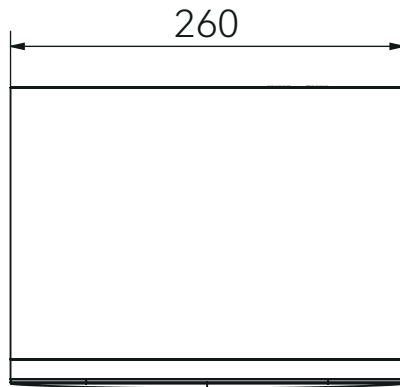
K9 Laser Engraving Machine User Manual



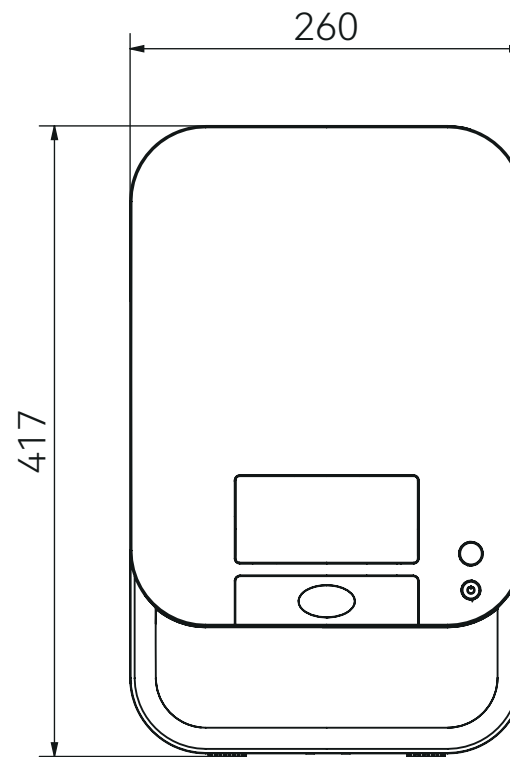
Contents

01 Product Structure and Accessories	05
02 Product Parameters	07
03 Function Display	08
04 Driver Download and Installation on PC	14
05 Driver Installation on PC and Online Operation	15
06 Introduction to Software Application on PC	18
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08 Introduction to Software Application on Mobile Devices	24
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01 Product Structure and Accessories



Top view

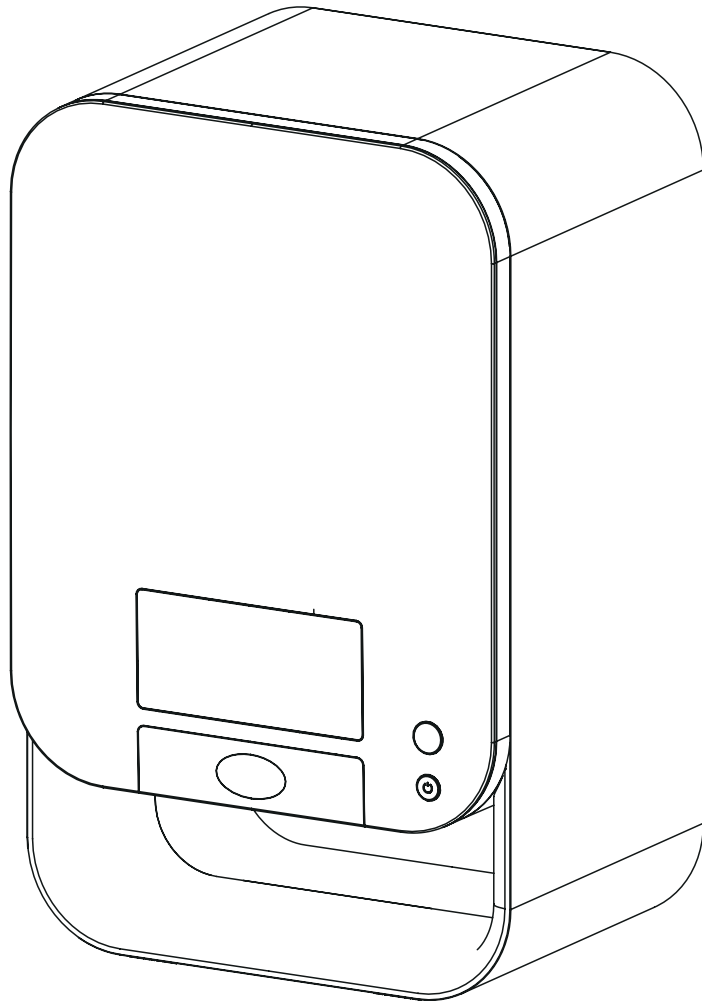


Front view



Side view

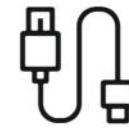
01 Product Structure and Accessories



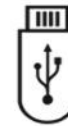
Detail of accessories



Power supply



Data cable



USB drive



User Manual

Power supply: engraving machine power supply

Data cable: used for computer-machine connection

USB drive: Includes software driver, user software, electronic file manual

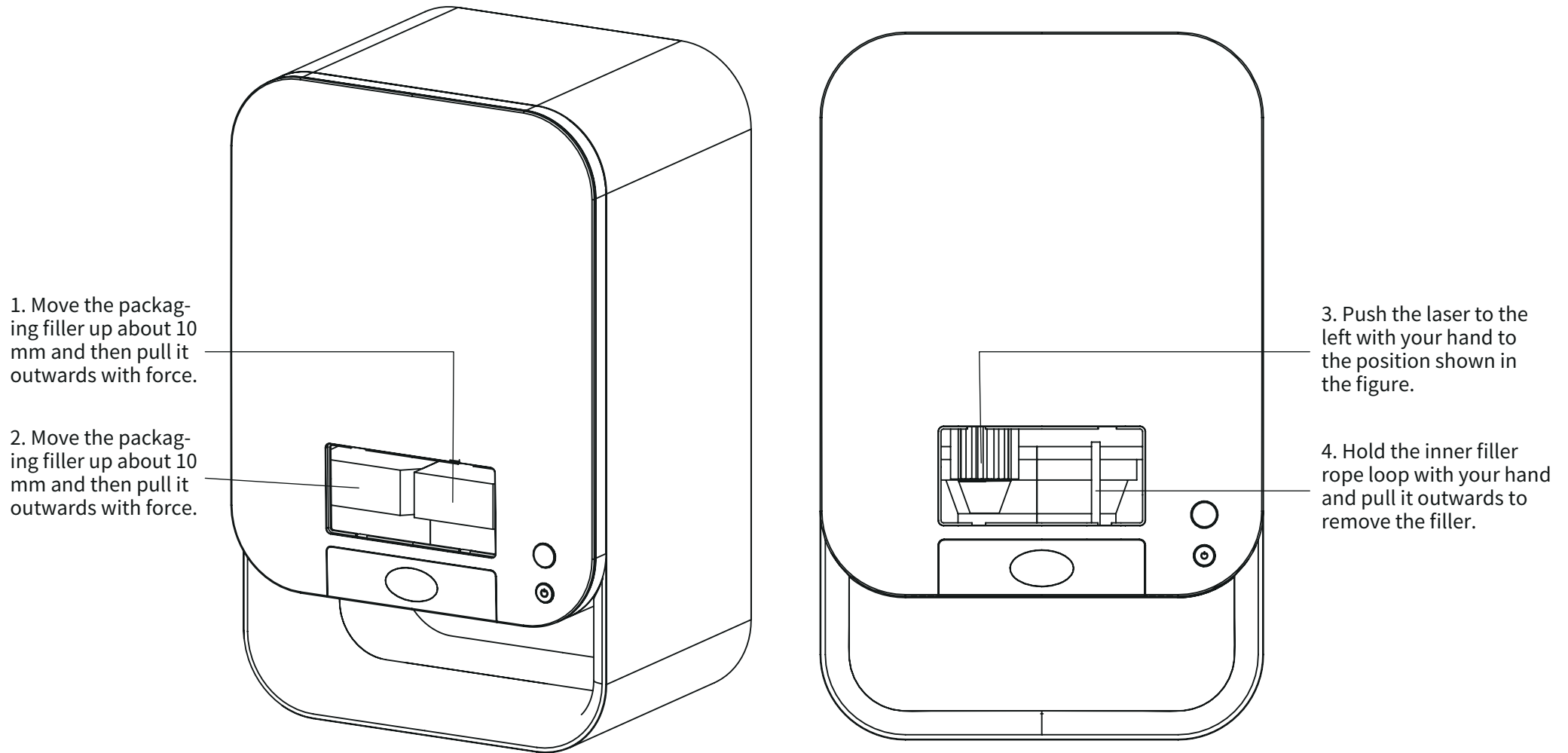
User Manual: Introduction to the engraving machine and how to operate it

02 Product Parameters

Model	K9
Body Material	ABS
Power Supply	DC005, DC12V/5A
Data Interface	USB Type-C
Cooling Method	Air-cooled
Power	<60W,max. approx. 18W
Laser Power	>5W
Laser Wavelength	455nm
Laser Life	>10,000H
Spot Shape	Point
Laser Control	High-speed PWM
Engraving Area	50*80mm
Engraving Accuracy	0.05mm
Engravable Materials	Paper, woodchip, plastic, leather, fabric, etc.
Support Systems	Windows XP/Windows7/Windows10/MAC/IOS/ Android
Image Format	JPEG/BMP/GIF/PLT/PNG/DXF/JPG/XJ/HPGL

03 Function Display

Lens installation:

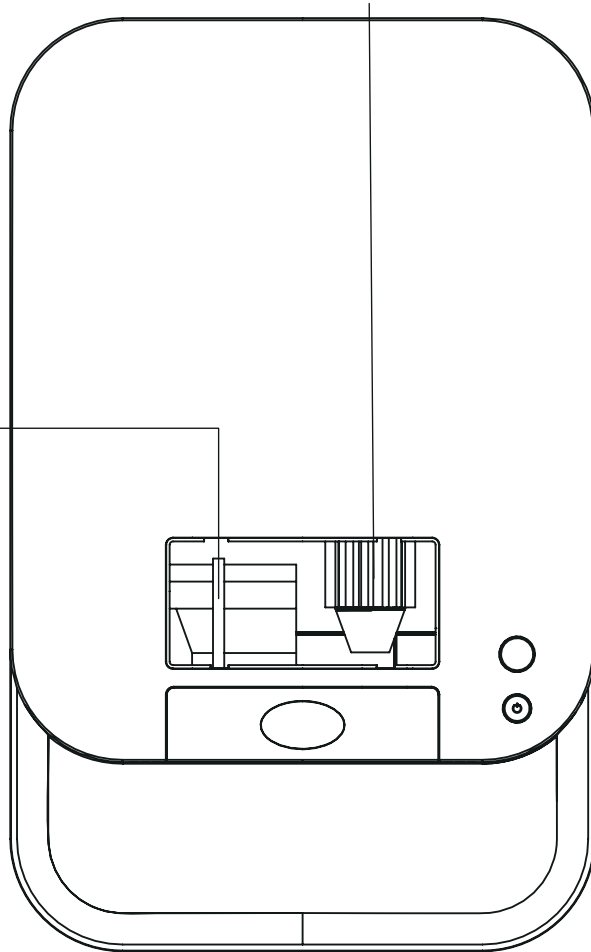


03 Function Display

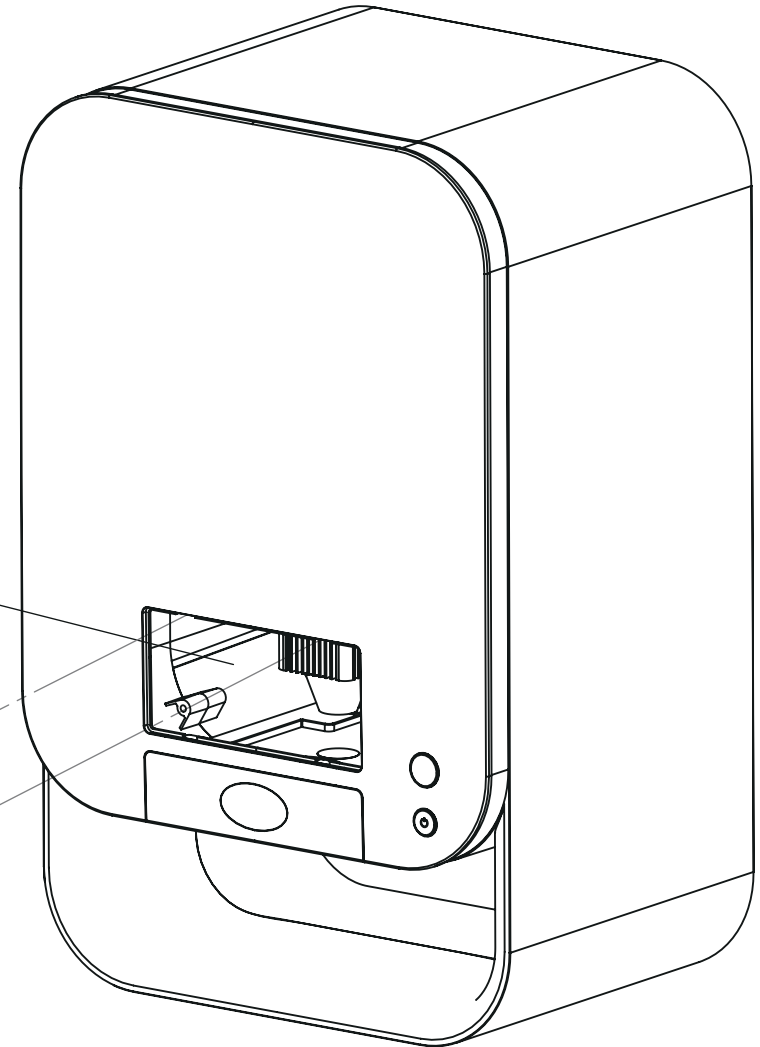
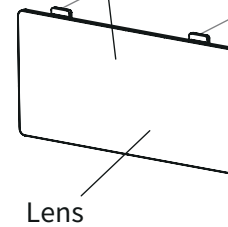
Lens installation:

5. Use your hand to push the laser unit to the right until it reaches the position shown in the figure.

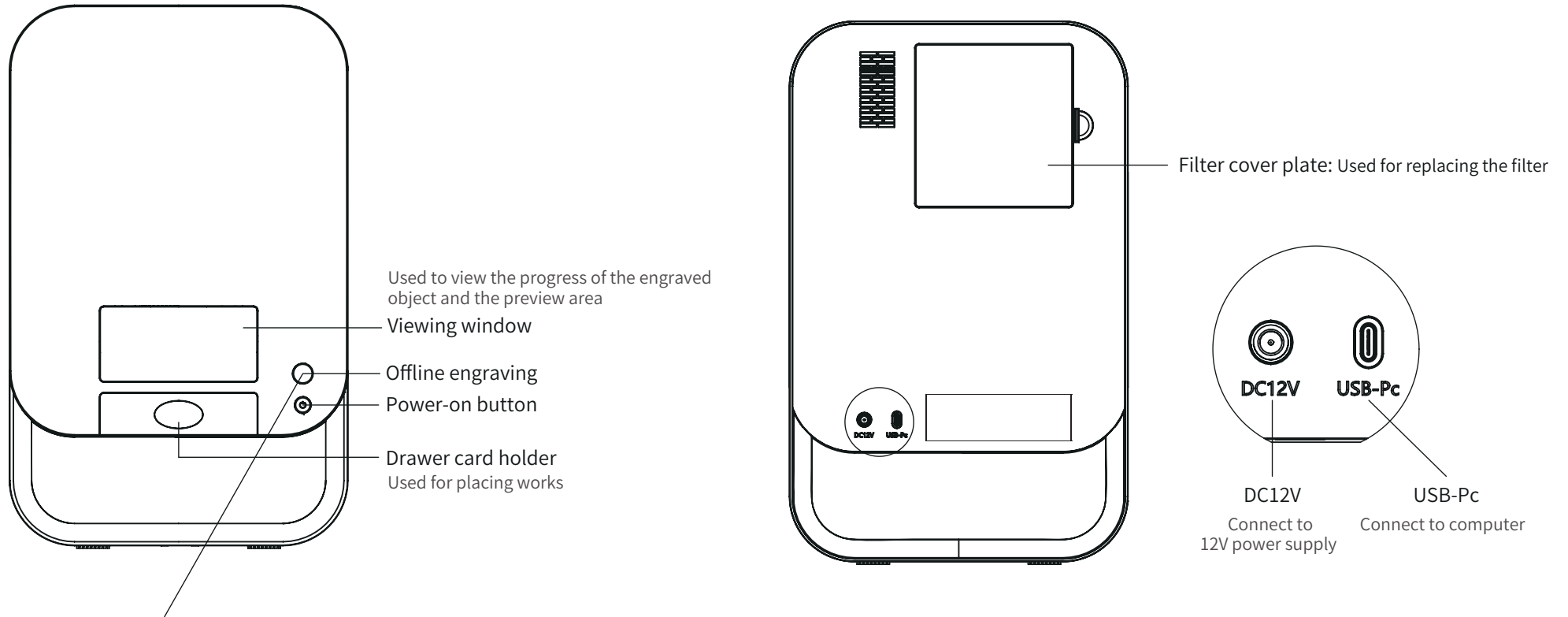
6. Hold the inner filling material's rope loop with your hand and pull outward to remove the filling material.



Install the lens into the viewing window

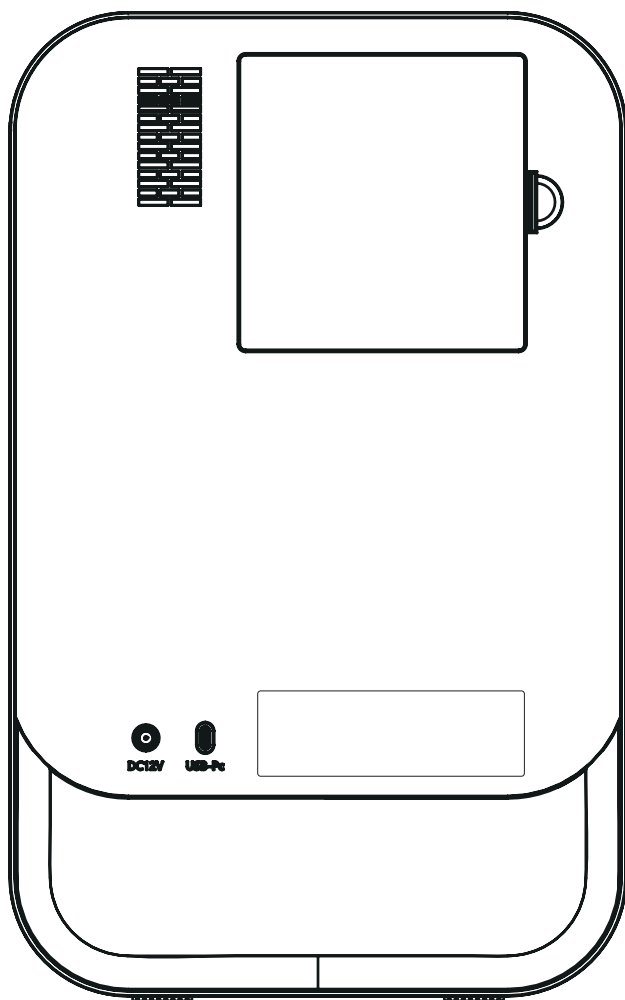


03 Function Display



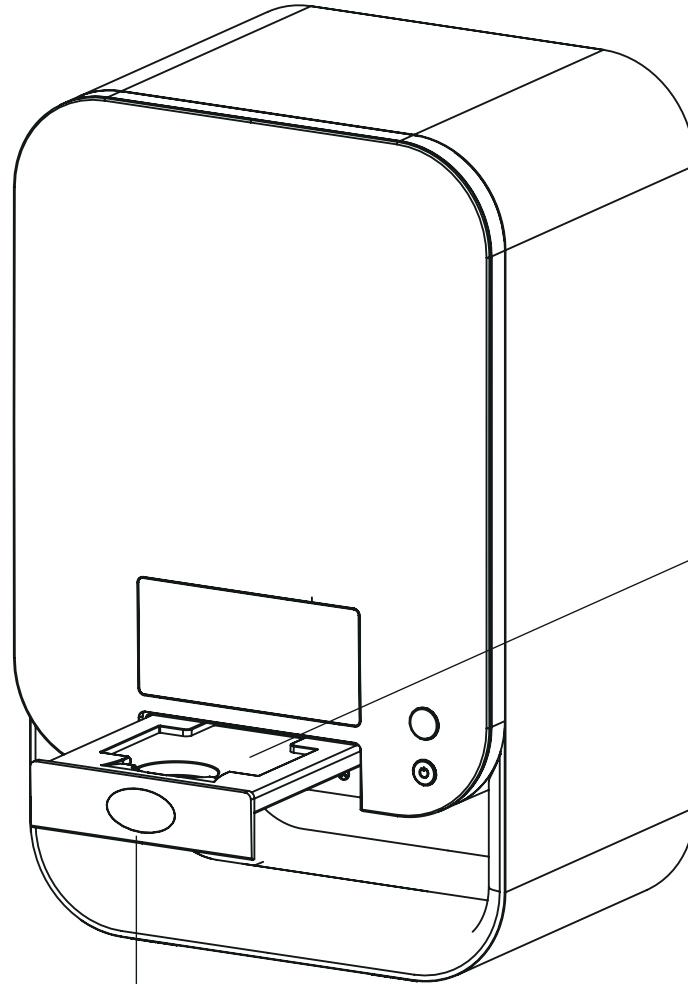
Offline Engraving Function Description

- Press to automatically reset the machine and preview.
- Press and hold for more than 3 seconds to enter engraving mode.
- Press again briefly to pause.
- Press again briefly to resume.
- Press and hold for over 3 seconds to cancel engraving.



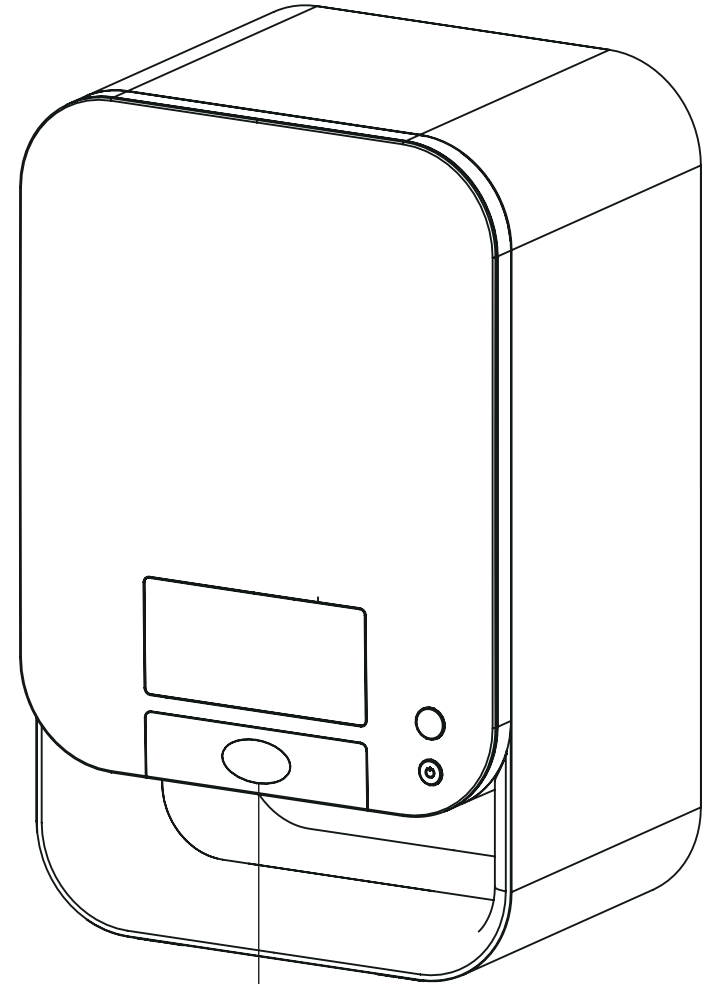
03 Function Display

Card placement:



1. Pull out the drawer

2. Cards can be placed vertically or horizontally

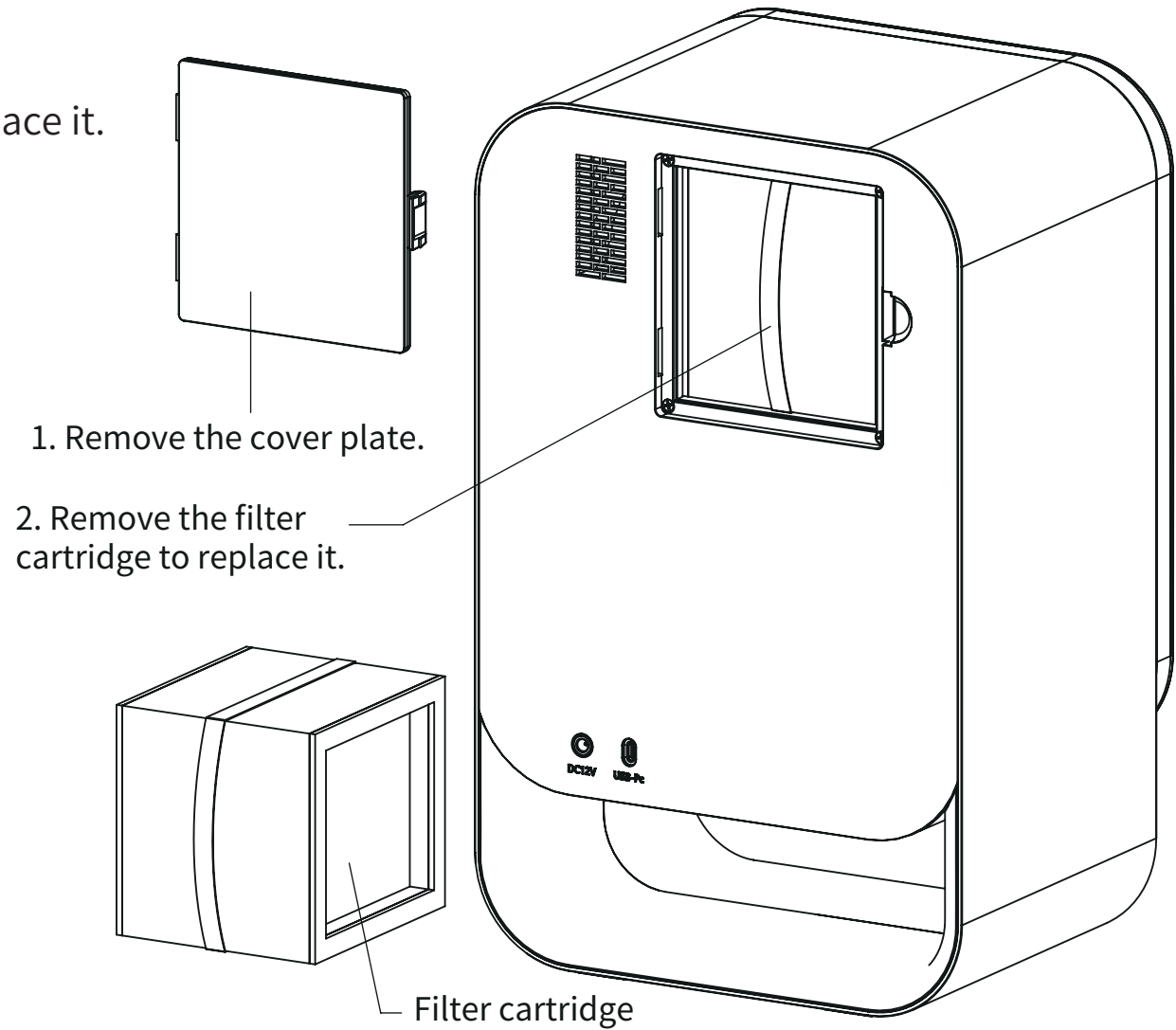


3. Close the drawer box

03 Function Display

Replacing the filter cartridge:

1. Remove the cover plate.
2. Pull out the filter cartridge to replace it.



04 Driver Download and Installation on PC

1. Driver installation path:

Double-click the U disk folder/windows/driver/driver.exe/Click to install/Driver installation is successful

①

 TF card

②

 01_Windows

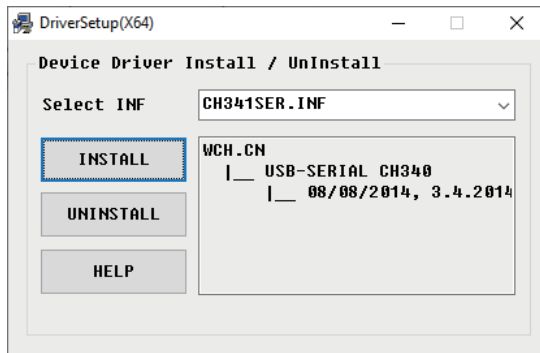
③

 driver

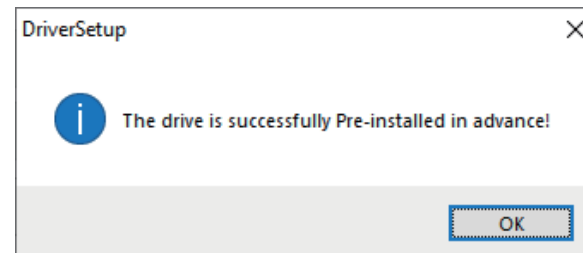
④

 driver.exe

⑤ Click to install



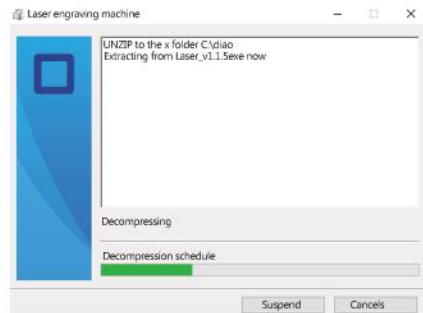
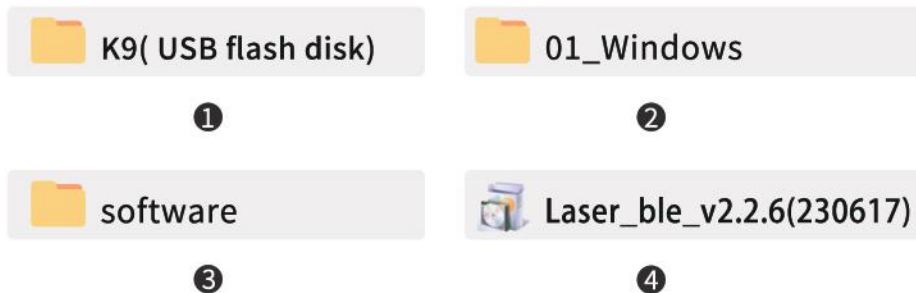
⑥ Confirm to complete the installation



05 Driver Installation on PC and Online Operation

2.Path to Install Software:

Enter the USB flash disk and double click the folder:/windows/software/Laser_ble_v2.2.6(230617)/ After the progress bar has done,the installation is completed /Laser.



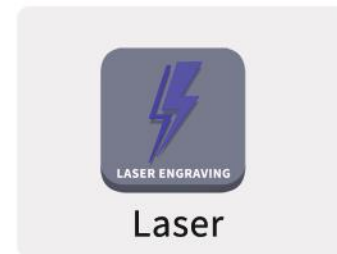
5 After the progress bar has done, Laser installation is completed.

Tips:

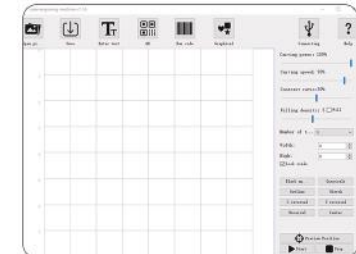
After clicking Laser_ble_v2.2.6(230617), if anti-virus software or PC Manager prompts to warn the risks. Laser_ble_v2.2.6(230617) file is a win system installation package. If it is misjudged as a suspicious file,Please select “allow all operations” to complete the software installation.

3.Online Operation:

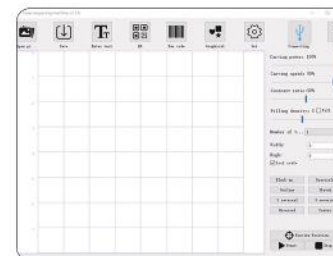
Connect the machine to the computer with data cable
Double click the software icon — click the “connect device” icon — the icon turns blue to complete the online connection



1 Double click the software icon



2 Click the “connect device” icon



3 The icon turns blue to complete the online connection

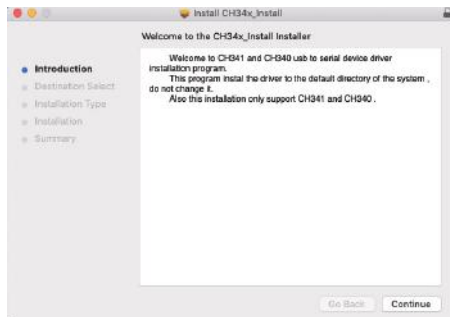
05 Driver Installation on PC and Online Operation

1. Driver installation path:

Driver installation path: Double-click U disk/02_MAC/driver/CH34x_Install_V1.4.pkg/Installation introduction/Installation type/Installation/Installation completed

TF card

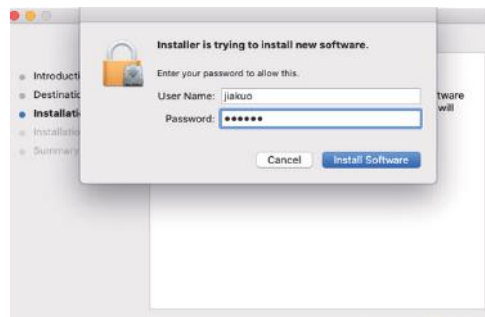
①



④ Click Continue

02_MAC

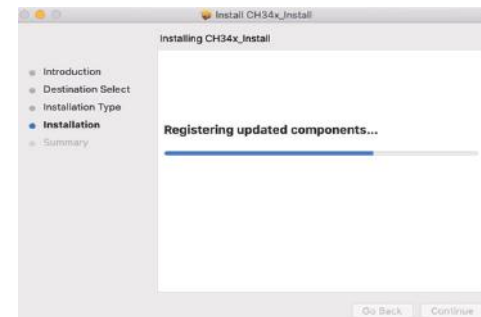
②



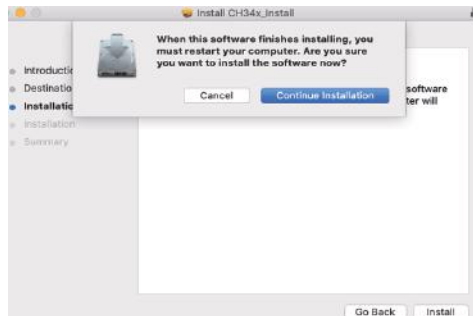
⑤ Enter the computer password

driver

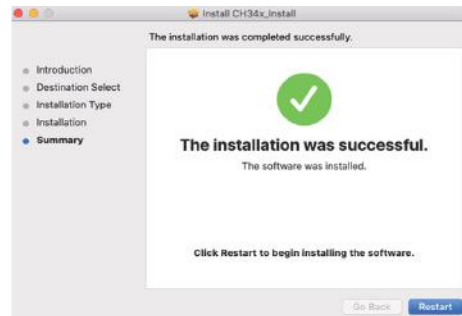
③



⑥ Click Continue installation



⑦ Continue installation



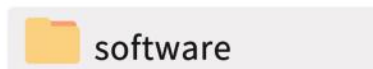
⑧ Complete installation

05 Driver Installation on PC and Online Operation

Mac software installation and online Introduction



①



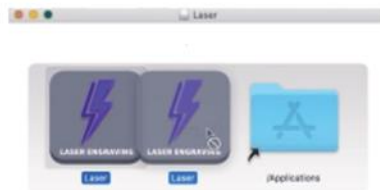
③



④ Double click the software icon



②



⑤ Left click the icon and drag into the Applications folder in the right



⑥ Complete installation

2. Path to Install Software:

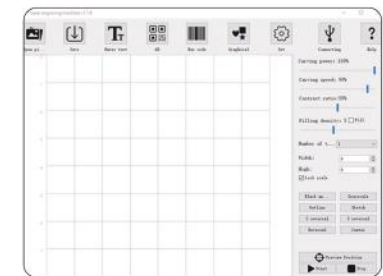
Enter USB flash disk and double click the folder: 02_MAC /software/Laser-2.0.4/move software icon to the right/ complete installation

3. Online operation:

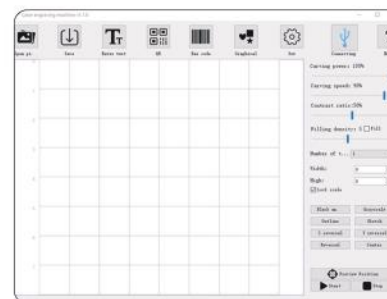
Connect the machine to the computer through data cable
Double click the software icon — click “connect device” icon — the icon turns blue to complete the online connection



① Double click the software icon



② Click “connect device” icon

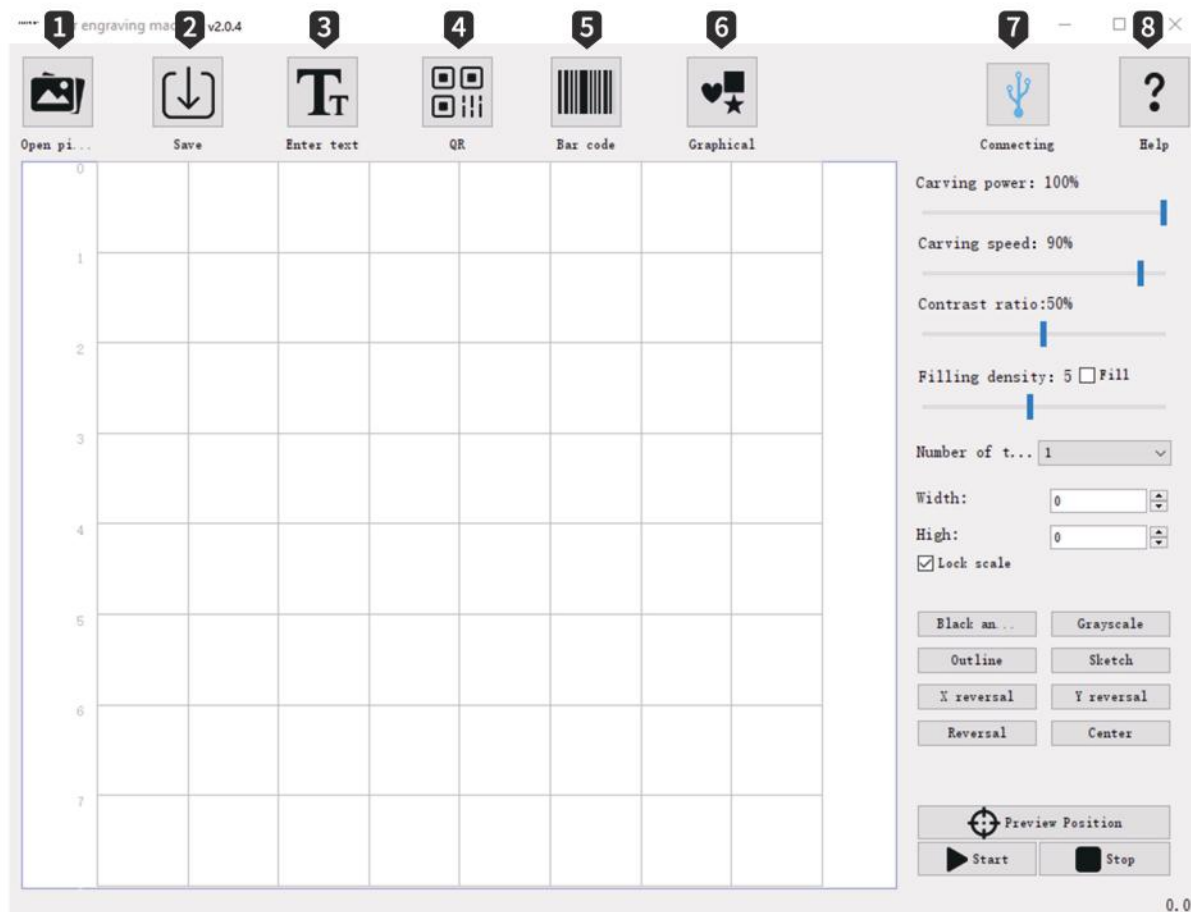


③ The icon turns blue to complete the online connection



06 Introduction to Software Application on PC

Introduction to Icon Functions in Software Interface:



① Open

Load photos from computer

② Save

Save the edited texts and photos

③ Input Text

Import text, font, size, horizontal, vertical, vectorization Editing function

④ QR code

Create QR code

⑤ Bar Code

Create Bar code

⑥ Graphics

Round-square-heart-pentagon, quick creation

⑦ Connect to device

The icon turns blue after the connection is done

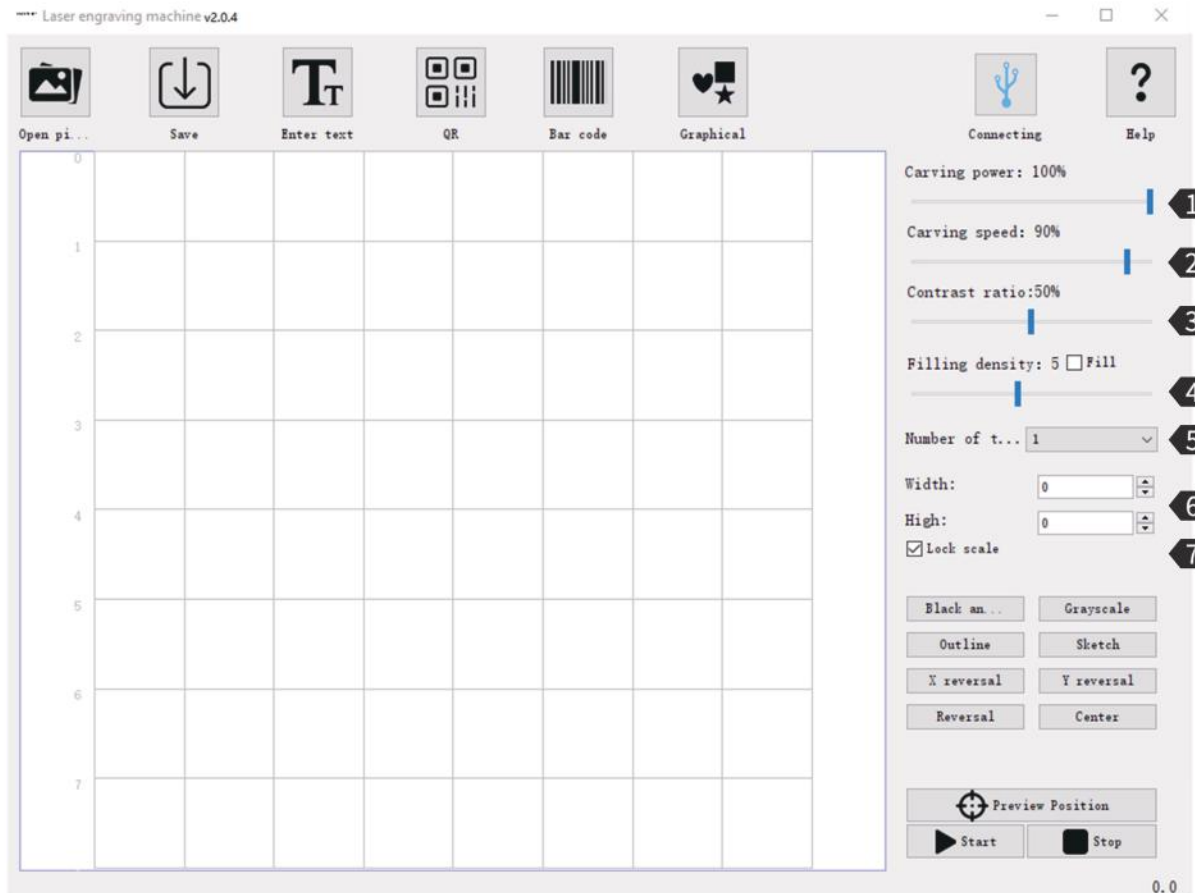


⑧ Help

Open the link; watch the demo video and refer to the FAQ

06 Introduction to Software Application on PC

Setting of Software Parameters:



1 Engraving Power

Adjust the power level to engrave different materials

2 Engraving Speed

Set the engraving speed, the engraving speed of determines the engraving depth

3 Contrast

Drag the slider to adjust the contrast of text and photo



4 Filling Density; Filling

The filling effect can only be effective for vector graphics, select vectorization, Click Fill on the text photo, drag the fill slider to adjust the filling density

5 Engraving Times

Set the number of engraving times

6 Width; Height

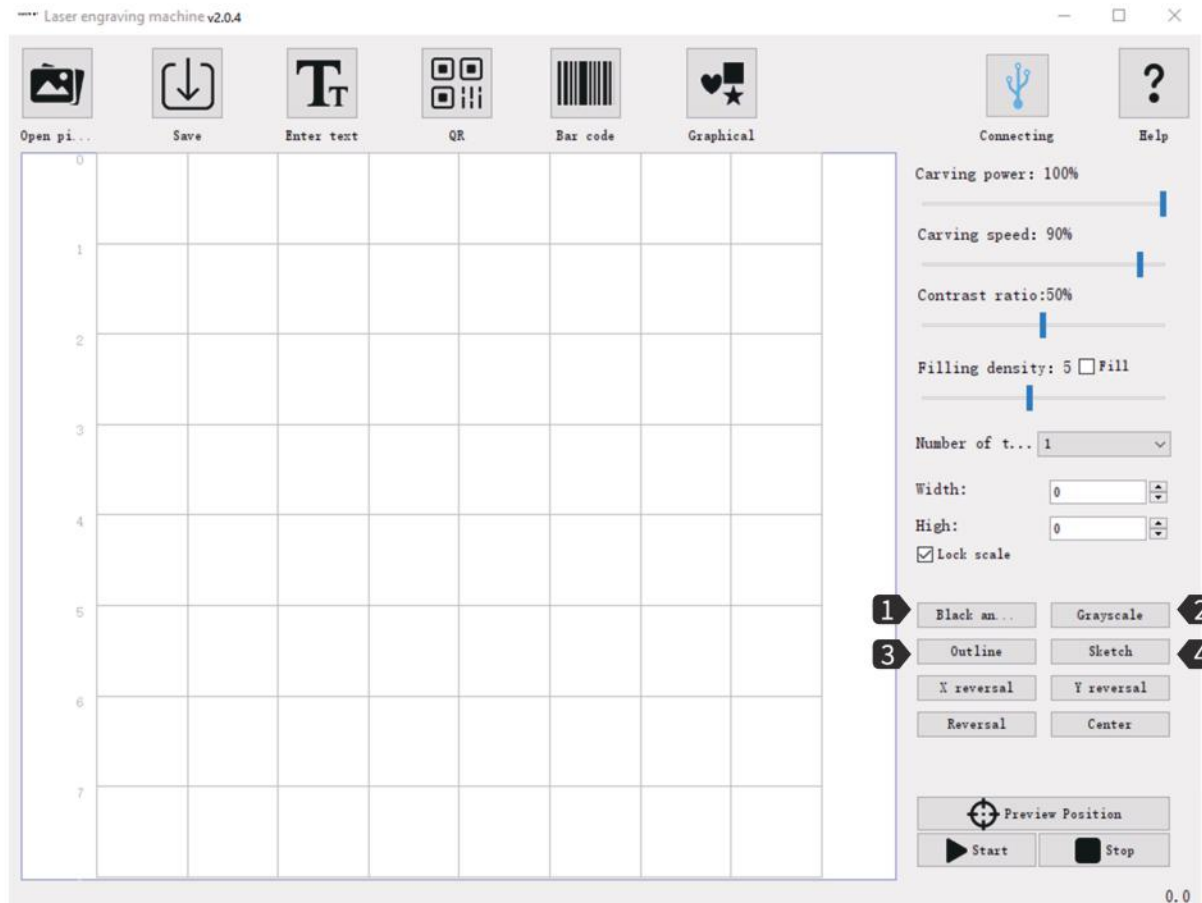
Adjust the width and height of text photo separately at will

7 Proportional Zoom

Lock photo text to proportionally zoom in/out

06 Introduction to Software Application on PC

Setting of Software Parameters:



① Black and White

To process photos to black and white

② Grayscale

Grayscale mode, adopt the function for engraving photos to adjust photo grayscale

③ Contour

Cutting mode for wireframe cutting of engraving machine

④ Sketch

Sketch mode, enhance the 3D effect of photo outline



Black and White



Grayscale



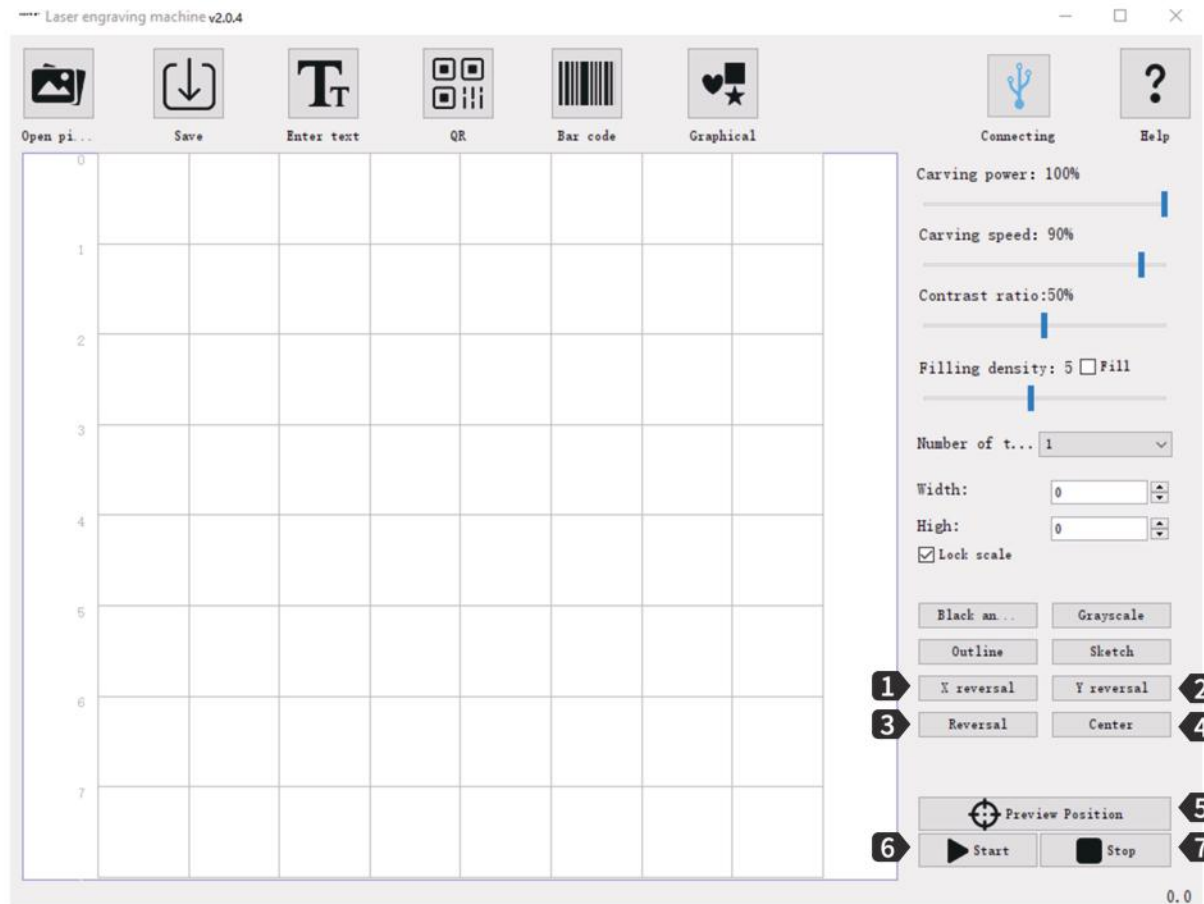
Contour



Sketch

06 Introduction to Software Application on PC

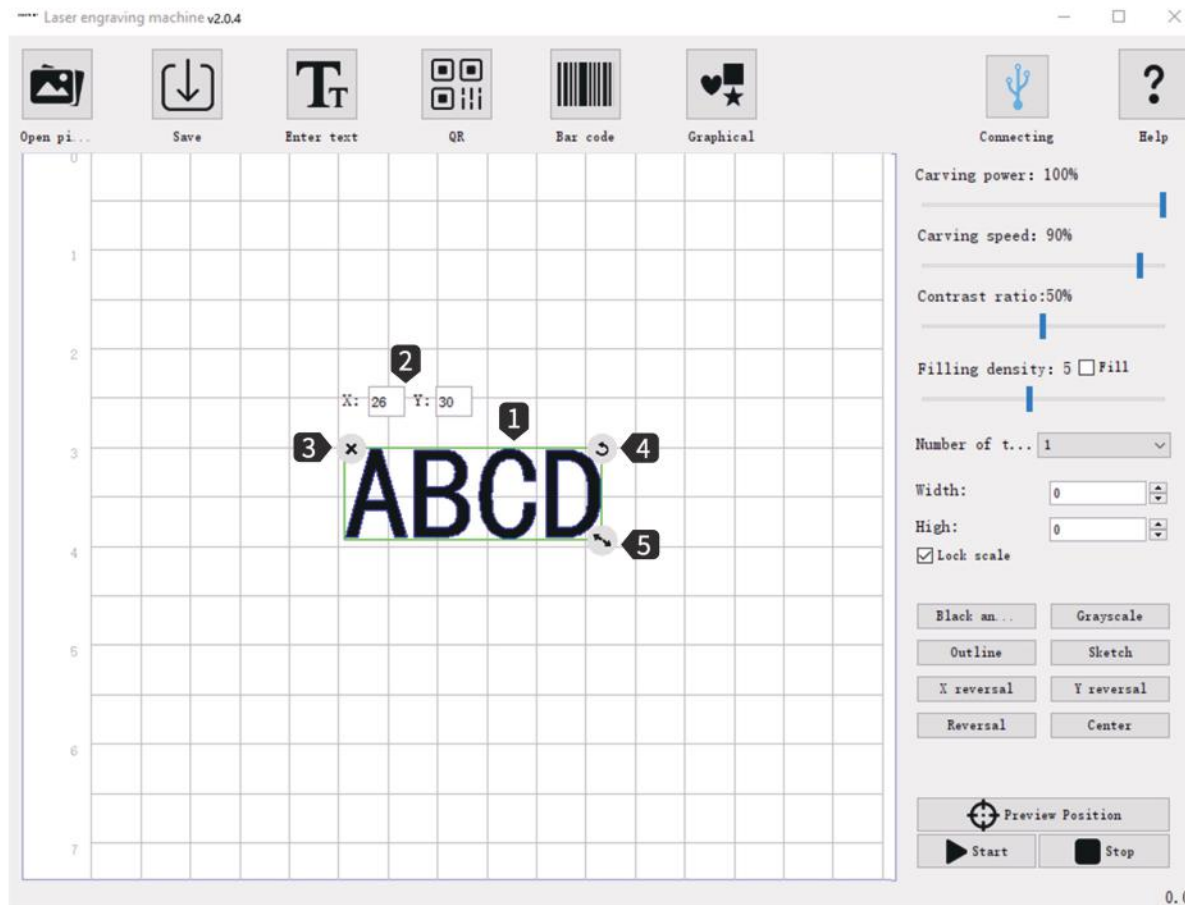
Setting of Software Parameters:



- ① **X Mirror**
Horizontal Rotation Effect
- ② **Y Mirror**
Vertical Rotation Effect
- ③ **Reverse Color**
Reverse background color of text and photo
- ④ **Center**
One click to center the text and photo in preview area
- ⑤ **Preview Location**
Preview to confirm engraving position
- ⑥ **Start**
Start engraving
- ⑦ **Stop**
Stop engraving

06 Introduction to Software Application on PC

Introduction to Interface Loading Content:



- 1 After loading the text and photo, left click the mouse to move the position of the text and photo, right click the mouse to move the drawing board horizontally, roll mouse wheel to zoom in/out the drawing board.
- 2 X:26 Y:30 only indicate the position coordinates where the text and photo stay; when move the text and photo, the coordinates will change based on different positions.
- 3 ✕ Clear the text and photo on the drawing board
- 4 ↻ Left click the mouse to rotate the text and photo 360°
- 5 🖱️ Left click the mouse and drag to zoom in/out the text and photo

07 Software Download and Online on Mobile Devices

1. Software Download and Installation:

Scan the QR code below to download



Google Play



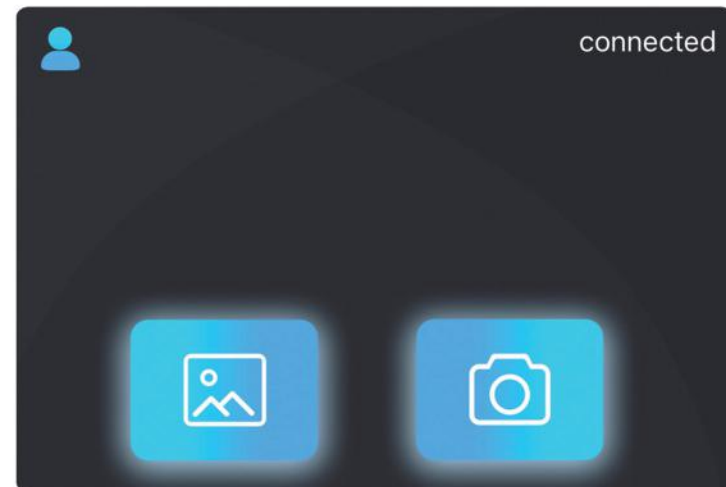
Android



iOS

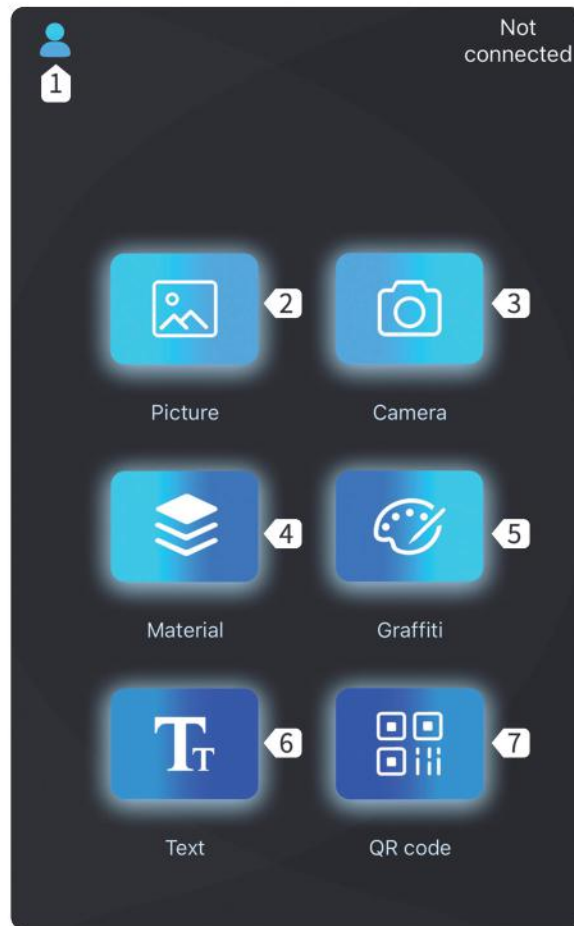
2. Connect APP with Machine

- ① Connect the machine to power supply;
- ② Activate Bluetooth function in the mobile phone;
- ③ Open engraving software in the phone, click "No Connection" in the upper right corner to automatically search for the device;
- ④ Then click "Engraver-000###";
Note: "000###" represents the serial number of the machine.
- ⑤ Wait for 1~2 seconds till "Connected" displayed in the upper right corner, which indicates that the APP has successfully connected to the machine, then continue with the next step.



08 Introduction to Software Application on Mobile Devices

Introduction to software interface (loading) :



1 Setting

New User Guide/ Feed-back / User Agreement and PrivacyClauses/Equipment/Language Setting

2 Load Photos for Engraving

Add photos from Album
Add photos from Gallery

3 Take photos via camera

4 Software Built-in Graphics

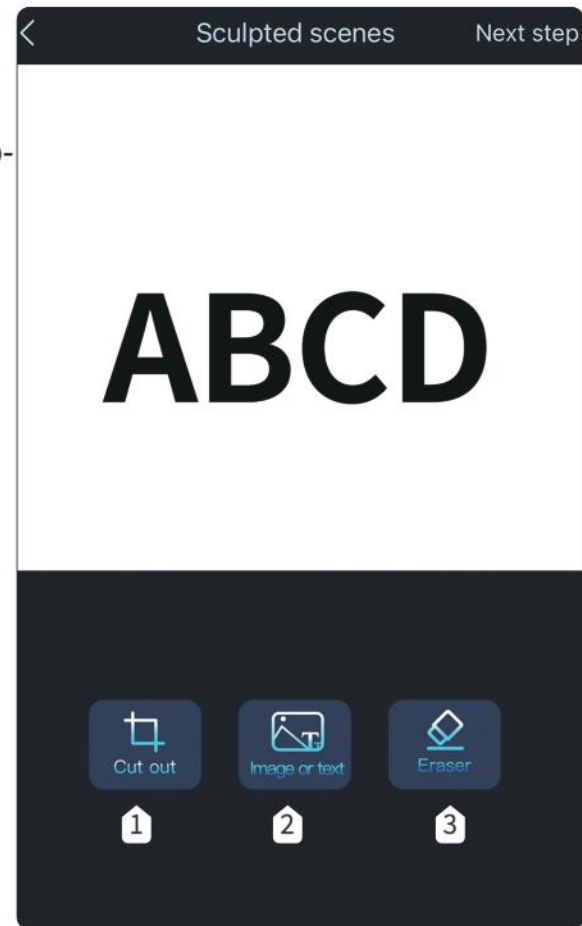
5 Add Graffiti

Self-draw Text
Photo

6 Edit Text

7 Add QR code

QR Code,Barcode



1 Cutting

Customized Cutting,
Round Cutting, Square
Cutting

2 Photo or Text

(Content can be
superimposed)

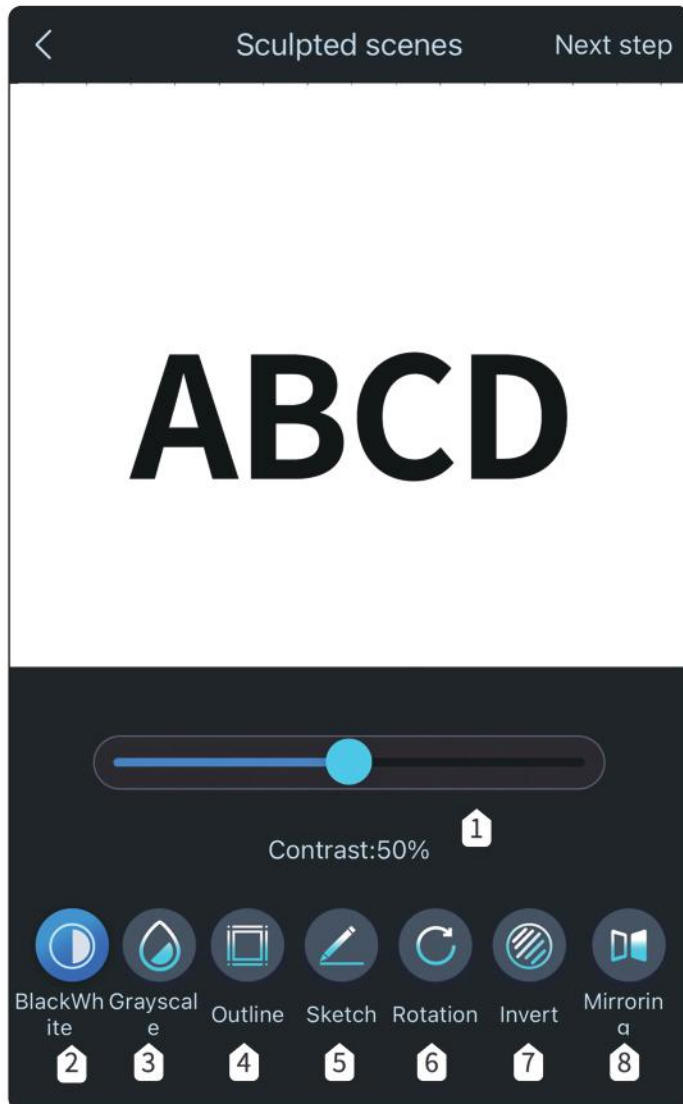
Input Text
Load Photos from Album
Shoot via Camera
Add Photo from Material
Library

3 Eraser

Modify the photo with
erase

08 Introduction to Software Application on Mobile Devices

Introduction to software interface (Loading content) :



① Contrast

Drag the slider to adjust the contrast of text and photo

ABCD ABCD ABCD
Contrast 16 Contrast 50 Contrast 80

② Black and White

To process photos to black and white

③ Grayscale

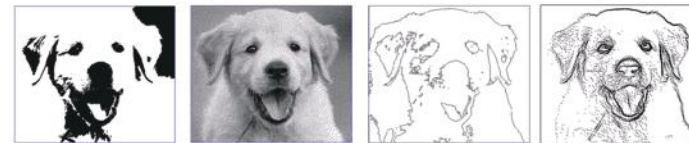
Grayscale mode, adopt the function for engraving photos to adjust photo grayscale

④ Contour

Cutting mode for wireframe cutting of engraving machine

⑤ Sketch

Sketch mode, enhance the 3D effect of photo outline



Black and White

Grayscale

Contour

Sketch

⑥ Whirling

Can rotate 90 degrees, 180 degrees or 360 degrees

⑦ Reverse Color

Reverse background color of text and photo

⑧ Mirroring

Horizontal Rotation Effect, Vertical Rotation Effect

08 Introduction to Software Application on Mobile Devices

Introduction to Software Interface (Load Content):



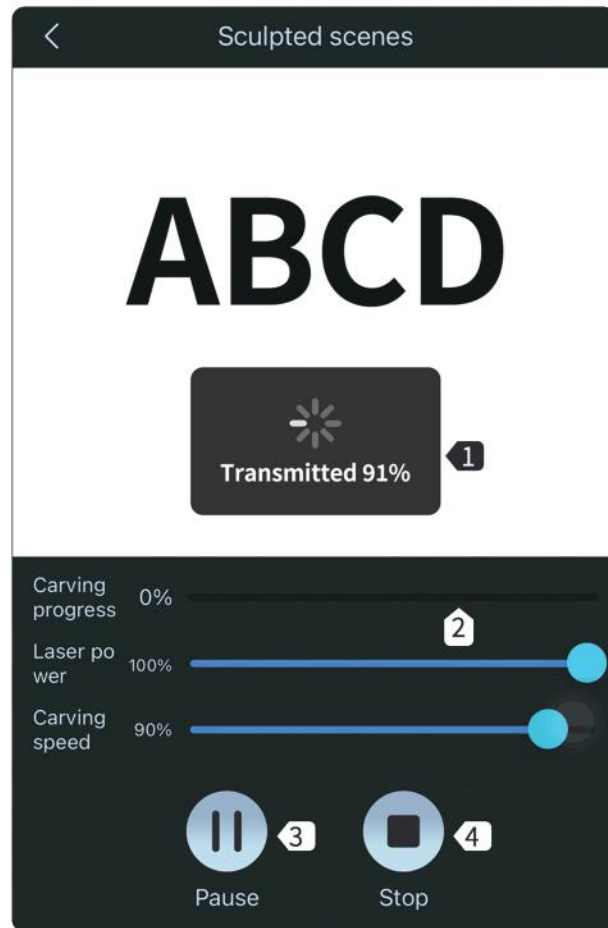
- ① Width
Set engraving width
- ② Height
Set engraving height
- ③ Lock Ratio
Scale engraving size proportionally
- ④ Region
Positioning
Preview Engraving
Position Determine
Engraving Position



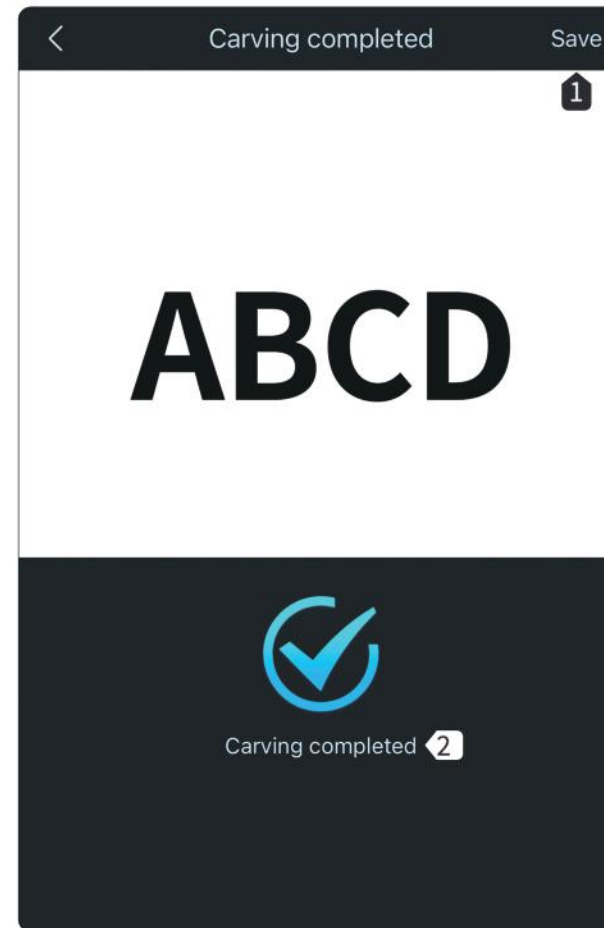
- ① Material Selection
App built-in materials, which can be directly selected based on the materials to be engraved
- ② Add Materials
Add and set materials, material name/laser power/engraving speed
- ③ Laser Power
Adjust power level to engrave different materials
- ④ Engraving Speed
Engraving speed setting, engraving speed determines the engraving depth
- ⑤ Repetition Times
It represents the number of engraving times

08 Introduction to Software Application on Mobile Devices

Introduction to Software Interface (Load Content):



- 1 Uploading content
When the transfer progress has been 100% completed, the engraving can be started.
- 2 Carves Progress
Show me the progress of the sculpture
- 3 Suspend
Suspend engraving
- 3 Stop
Stop engraving



- 1 Save
Save the current engraving content and view in the phone album
- 2 Engraving Completed
Current content has been engraved

09 FAQ

K9 FAQ

1. No response from the machine when being powered on.

1. No power supply: Please check the socket and switch as well as the machine power socket to ensure that they have been correctly plugged with normal power supply.

2. It cannot be connected to computer

1. USB cable not connected: Please check the USB data cable interface on the machine and computer to ensure it's correctly plugged. The USB interface on the front panel of some desktop computers is invalid, it's better to connect to the interface on the back.
2. Driver not properly installed: Install the driver according to the instructions. After the installation is done, the computer will recognize the device as a serial port, which means the hardware connection is OK.
3. Other special problems: Pull out the USB data cable and power cable, keep the machine power off for 5 seconds and then try the connection once again.

3. No response from the phone APP when being connected to the machine.

1. Wrong Bluetooth connection: Make sure it's connected to the Bluetooth released by the machine. Please read "App Connection" in the User Manual for details.
2. Incompatibility: In the case of abnormal connection due to incompatibility of newly-released phone or upgraded system, please contact our customer service with the screenshot of phone configuration so as to get technical support as soon as possible.

4. Shallow engraving effect or no traces.

1. Inaccurate focus: Refer to the "Focus Adjustment" in the User Manual to make the correct focus.
2. Engraving speed: Too fast speed is due to short burning time. Please read the "Engraving Parameters" in the User Manual to readjust the parameters.

09 FAQ

3. Photo color is too light: The photo added should be clear. If the line is too thin or the color is too light, the engraving effect will be directly influenced.
4. Position of object to be engraved: If the object is placed obliquely, the focal length of laser is fixed, so the object should be placed horizontally in parallel to the machine; otherwise, the inaccurate focal length will result in bad engraving effect.

5. Offline engraving unexpectedly stops

1. The photo is not completely downloaded when being connected to computer, please download the photo once again.

6. Inaccurate focus

1. Read the “Focus” in the User Manual. Please use the yellow focus plate provided with the camera to make the focus. If the focus plate is missing, a thin and rough yellow or white cardboard can be used as the substitution to make the focus once again. Please contact the online customer service for relevant information.