



DJ6 Laser Engraving Machine User Manual

Please read this manual carefully before use and keep it properly for future reference.





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.



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 feiture 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:
- (Dignite the ambient combustibles;
- DOther radiation or toxic and harmful gases may be produced during the laser processing of different objects;
- *Direct 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" is 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 dissembled by non-professionals.

Pay attention!



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



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



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



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

Maintenance

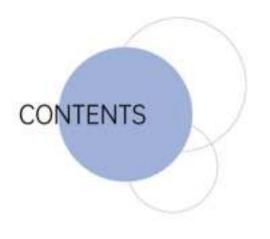


Laser head is consumable. It's recommended to keep the machine power off for 10 minutes after 4-hour engraving and keep the machine power off for 10 minutes after 1-hour cutting.



DAYA DJ6 Laser Engraving Machine User Manual

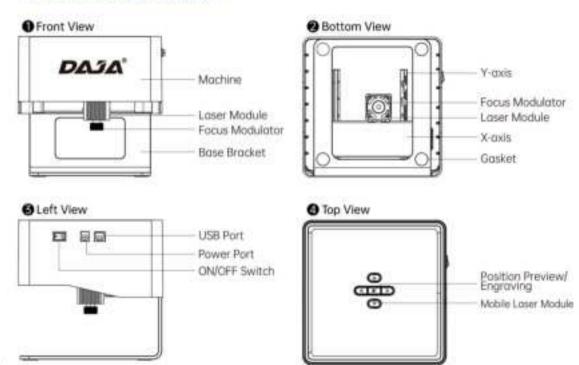
Brand	DAJA	
Model	D36	
Material	ABS + Aluminum alloy	
Control Method	PWM	
Operation Systems	Win7/Win8/Win10/MAC/iOS/Android	
Applicable Materials	Paper/Wood chip/Plastic/Stone/Leather/Fabric/Bamboo/Metal Paint	
Interface Specification	Power Port: DC005, Data Port: USB type B	
Wavelength	450nm	
Engraving Area	80*80mm	
Input Power	24W	
Laserhead Power	5W	
lmage Format	JPEG/BMP/TIF/GIF	
Resolution	0.05mm	
Machine Voltage	12V 2A	
Optimal Focus Range	30-50mm	
Max Focus	100mm	
Application Software	Computer Software, Phone APP Engraving Software	
Gross Weight	1.65KG	
Product Size (L x W x H)	167×167×165mm	
Packing Size (L x W x H)	230x 230 x 165mm	



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1. Product Structure Diagram

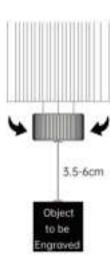


2. Engraving Parameters

Material	Laser Power	Engraving Speed
Leather	80 - 100	100-95
Paper	85 - 100	100-95
Plastic	80 - 100	70-80
Wood	100	100-90
Bamboo	100	90-70
Metal Paint	100	50-10
Acrylics	100	50-70

3. Focus Adjustment

- Turn laser head left and right to form the smallest focus for higher accuracy and better engraving effect.
- Optimal engraving distance:
 3.5-6cm
- It's most important to adjust the focus:
 - Turn the loser head left and right to make the smallest light spot;
 - 2.lt's optimal to keep 3.5-6 cm of distance between laser head and object surface;
 - The focus of laser head needs to be readjusted to engrave objects of different heights.





4. Software Download and Installation

Scan the QR code to download.



Note: 1. For Android system, open the browser to scan the QR code to download;

Corresponding authority should be permitted after successful installation;

5. APP Machine Connection:

- Connect the machine to power supply;
- Activate Bluetooth function in the mobile phone;
- Open engraving software in the phone, click "No Connection" in the upper right corner to automatically search for the device;
- Then click "Engraver-000###"; Mate: "\$00###" represents the serial number of the machine.
- 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.



6. Software Interface Introduction

Introduction to software interface (loading):



Setting

New User Golde/ Feedback / User Agreement and PrivacyClauses/Equipment/Language Setting

Load Photos for Engraving

Add photos from Album Add photos from Gallery

- Take photos via camera
- Software Built-in Graphics
- Add Graffiti Self-draw Text Photo
- Edit Text
- Add QR code QR Code,Barcode



OCutting

Customized Cutting, Round Cutting, Square Cutting

Photo or Text

(Content can be superimpused)

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

@ Eraser

Modify the photo with erase



Introduction to software interface (Loading content):



Contrast Drag the slider to adjust the contrast of text and photo ARCD ABCD. ABCD

Contract St. - Contract WI

Black and White To process photos to black and white

Continue 18

- 6 Gravscale Grayscale mode, adopt the function for engraving photos to adjust photo grayscale
- Contour Cutting mode for wireframe cutting of engraving machine
- Sketch Sketch mode, enhance the 3D effect of photo outline



- Whirling Can rotate 90 degrees, 180 degrees or 360 degrees.
- Reverse Color Reverse background color of text and photo
- Mirroring Honzontal Rotation Effect, Vertical Rotation Effect.

State Steel

Introduction to Software Interface (Load Content):



Elahotrop said

Width Set engraving width

- Height
 Set engraving
 height
- Lock Ratio
 Scale engraving size proportionally
- Region
 Positioning
 Preview Engraving
 Position Determine
 Engraving Position



Material Selection

App built-inmaterials, which can be directly selected based on the materials to be engraved

Add Materials

Add and set materials, material name/laser power/engraving speed

Caser Power Adjust power level to engrave different materials

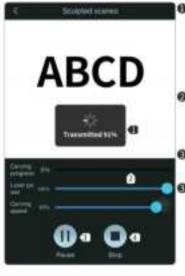
Engraving Speed
 Engraving speed
 setting, engraving
 speed determines

the engraving depth Repetition Times

> It represents the number of engraving times



Introduction to Software Interface (Load Content):



O Uploading content

When the transfer progress has been 100% completed, the engraving can be started.

Carves Progress

Show me the prog-ress of the sculpture

- Suspend Suspend engraving
- Stop.

Stop engraving



Save

Save the current engraving content and view in the phone album

■ Engraving Completed

Current content has been engraved

7.Computer software installation

Software can be acquired as follows:

Method 1: Acquire the driver, software, photos and other data from the USB flash disc provided (Note: Before the use for the first time, please copy all the data from the USB flash disc to your computer as backup to prevent accidental loss due to improper operation.)

1.Path to Install Driver:

Enter the USB flash disc and double click the folder: /01-windows/driver/Windows10_Driver/CP210xVCPInstaller x64/click Install/Next/Confirm to complete the installation.

Windows Driver Installation





2.Path to Install Software:

Enter the USB flash disk and double click the folder:/windows/software/Laser_2.0.4(211018) / After the progress bar has done, the installation is completed /Laser.



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

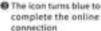
Tips:

After clicking Laser_2.0.4 (211018), if anti-virus software or PC Manager prompts to warn the risks. Laser_2.0.4 (211018) 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







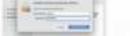
connect device

Mac Driver Installation









Continue the installation

1.Path to Install Driver:

Path to Install Driver: Enter the USB flash disk and double click the folder: 02_MAC/driver/Mac_DSX_VCP_Driver/Installation introduction/installation type/imstallation/installation completed

Note: The software can be installed after the driver has been installed, please watch the video for detailed operation.

W Video of MAC driver and software installation



Click to continue the

@Complete the installation



Mac software installation and online Introduction









O Double click the software icon

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





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





@ Double click the software icon

OClick "connect device" lcon

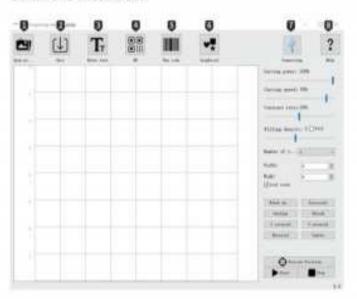




@The ison turns blue to complete the online connection

8.Introduction to the use of software

Introduction to Icon Functions in Software Interface:



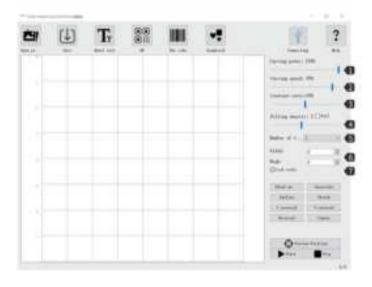
- Open
 Load photos from computer
- Save the edited texts and photos
- Input Text Import text, font, size, horizontal, vertical, vectorization Editing function
- QR code Create QR code
- Bar Code Create Bar code
- Graphics
 Round-square-heart-pentagon, quick creation
- Connect to device
 The icon turns blue after the connection is done



 Help
 Open the link; watch the demo video and refer to the FAO



Setting of Software Parameters:



@ Engraving Power

Adjust the power level to engrave different materials

Engraving Speed

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

Contrast

Drag the slider to adjust the contrast of text and photo

ABCD ABCD ABCD

Contrast No. Contrast NO. Contrast NO.

@ 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

@ Engraving Times

Set the number of engraving times

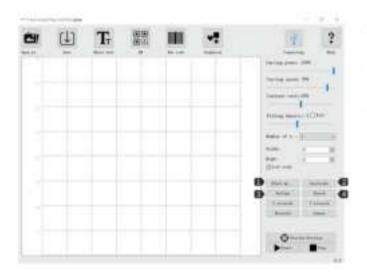
@ Width; Height

Adjust the width and height of text photo separately at will

O Proportional Zoom

Lock photo text to proportionally zoom in/out

Setting of Software Parameters:



@ Black and White

To process photos to black and white

@ Grayscale

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

@ Contour

Cutting mode for wireframe cutting of engraving machine

O Sketch

Sketch mode, enhance the 30 effect of photo outline





Black and White

Grayscale



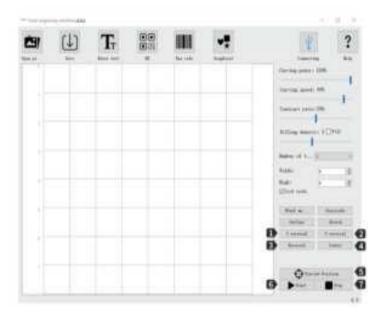


Contour

Sketch

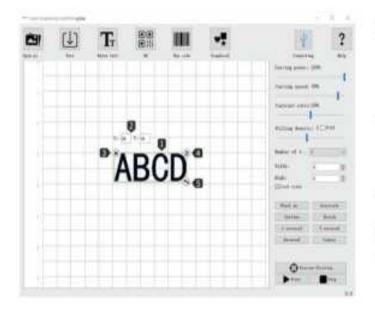


Setting of Software Parameters:



- A X Mirror Horizontal Rotation Effect
- A Y Mirror Vertical Rotation Effect
- Reverse Color Reverse background color of text and photo
- @ Center One click to center the text and photo in preview area
- @ Preview Location Preview to confirm engraving position
- @ Start Start engraving
- @ Stop Stop engraving

Introduction to Interface Loading Content:



- 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.
- 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.
- Clear the text and photo on the drawing board
- Left click the mouse to rotate the text and photo 360°
- Se Left click the mouse and drag to zoom in/out the text and photo



9.FQA

No response from the machine when being powered on.

 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.

. It cannot be connected to computer

- 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.
- 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.
- 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.

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

- 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.
- 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.

四、Shallow engraving effect or no traces.

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

- 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.

五、Offline engraving unexpectedly stops

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

六、Inaccurate focus

 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.