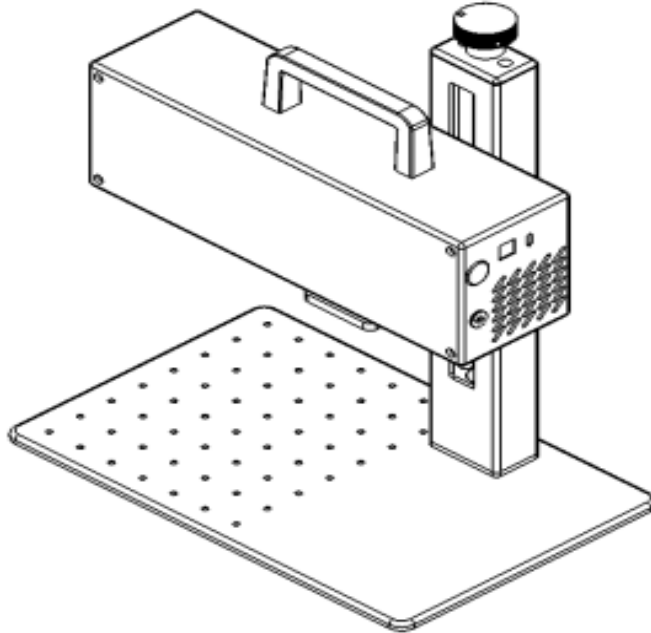


DANA-3020 Dual-laser Marking Machine User Manual



• English

Note: Images are for reference only, please refer to the actual product.
For more information, please scan the QR code.

Catalogue

English

Statements	03
Packing list	05
Specification	06
Structure	07
Installation and usage	08
Focusing method	10
Software installation instructions	11
PC Software source and installation	12
PC Software basic operations	13
Mobile App source and installation	14
Mobile App basic operations	15
FQA	16
After-sales svervice and support	17

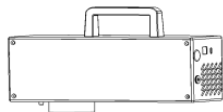
Disclaimer and warning

- Before using this machine, please carefully read this safety statement, which alarms situations that you need to pay much attention and includes warnings about unsafe operations that may cause damage to your property or even endanger your personal safety.
 1. This is Laser Safety Class 4 laser product. The product complies with the requirements of the latest standards of IEC 60825-1, and users are not allowed to use other brand uncertified lasers.
 2. It is essential to strictly follow the instructions to use the product safely, please wear qualified safety goggles (OD5+) as required to protect your eyes from laser damage, includes reflected and scattered light.
 3. Do not leave the machine unattended when working. Please arrange workable fire extinguishers nearby for use. The materials produce smoke, vapors, particles, and potentially toxic materials (plastics and other flammable materials) when working, these fumes or airborne pollutants might be harmful to health.
 4. To prevent accidents such as fires or electric shocks, the product comes with a power adapter with a ground wire. When using the marking machine, please plug the power plug into a power socket with a ground wire.
 5. In use/ after use, please ensure that the workplace is cleaned, and there are no flammable or explosive materials around the machine.

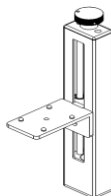
Disclaimer and warning

- This product is not a toy and is not suitable for people under 15 years of age. Do not allow children to touch the laser Module. Please be careful when operating in situation involving children.
- This product is a laser module, visit <http://www.danamarking.com/laserengraverdownload> for complete "user manual" and the latest instructions and warnings. DANA reserves the right to update this Disclaimer and Safe Operation Guidelines. reserves the right to update this Disclaimer and Safe Operation Guidelines.
- Please be sure to read this document carefully before using the product to understand your legal rights, responsibilities and safety instructions; Otherwise, it may bring property loss, safety accident and hidden danger of personal safety. Once you use this product, you shall be deemed to have understood and accepted all terms and contents of this document. User undertakes to be responsible for his or her actions and all consequences arising therefrom. User agrees to use the Product only for legitimate purposes and agrees to all terms and contents of this document and any relevant policies or guidelines that DANA may establish. You understand and agree that DANA may not be able to provide you with the cause of the damage or accident and provide you with DANA's after-sale service unless you provide the original engraving or cutting files, engraving software configuration parameters used, operating system information, video of the engraving or cutting process, and operational steps prior to the occurrence of a problem or failure.
- DANA is not liable for any and all losses arising from the user's failure to use the product in accordance with this manual.
- DANA has the ultimate right to interpret the document, subject to legal compliance. DANA reserves the right to update, modify, or terminate the Terms without prior notice.

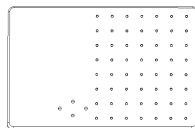
Packing list



Laser component



Front shield



Plate



L-shaped
positioning plate



USB cable



USB driver



Power cord



Power adapter



Ruler



M4*10 countersunk
head screws
4PCS



Knurled screw



H2、H2.5、H3
L-shaped
hexagonal wrench



Goggles



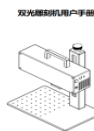
Calibration film



Focusing film



M4*8 cup head
screws 4PCS



Manual

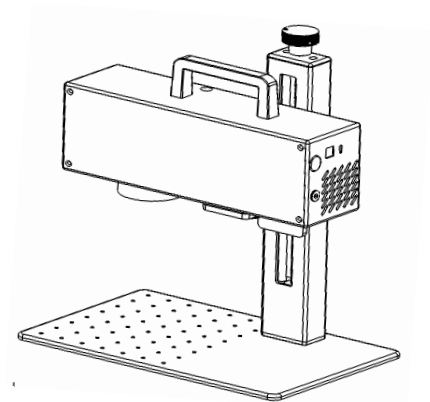
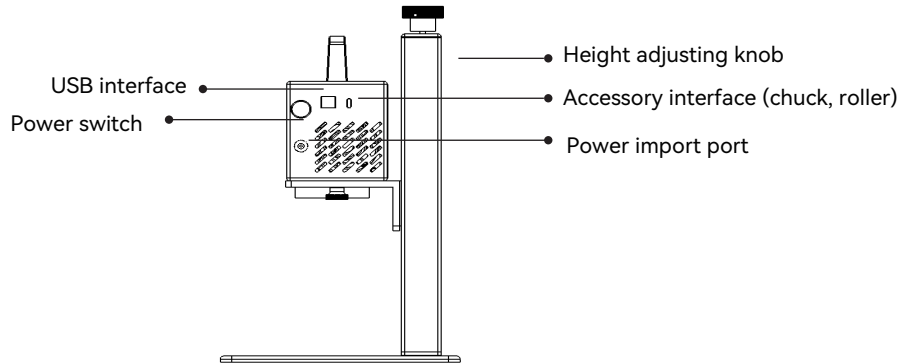
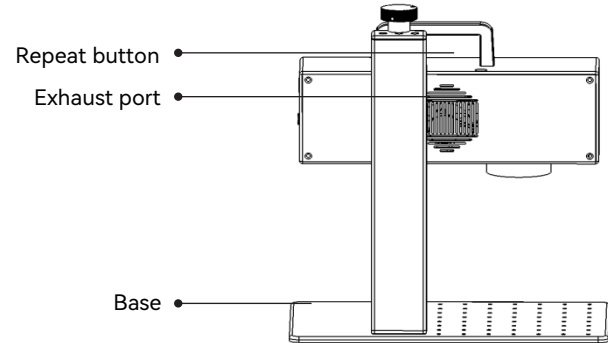
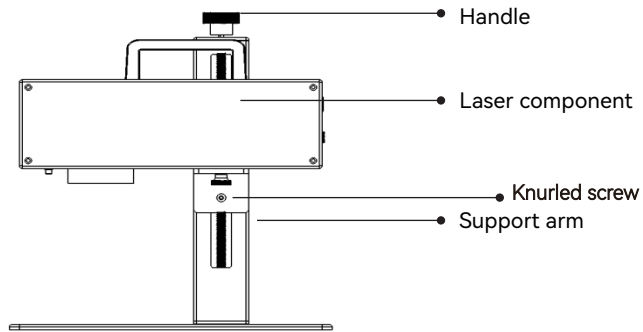


Handheld kit

■ ■ Specification

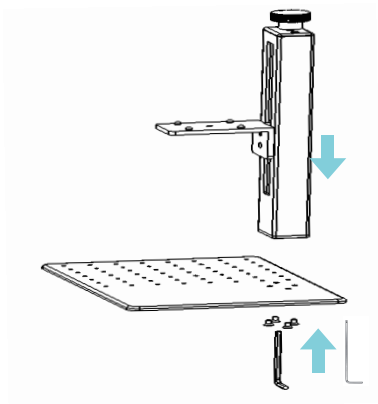
DANA-3020 Specification		
	Infrared light	Semiconductor Blu-ray
Laser power	2W	10W
Wavelength	1064nm	455 ± 5nm
Marking speed	≤5000 mm/s	≤4000 mm/s
Rate	INPUT:100-240V 50/60Hz OUTPUT:12.0V-9.0A	
Ambient temperature	10°C-30°C	
Marking depth	0.015-0.2mm	
Preview speed	<10000mm/s	
Cooling method	Air cooling - Built-in fan	
Marking size	100*100mm	

Structure

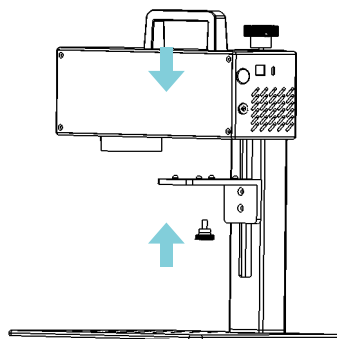


Installation and usage

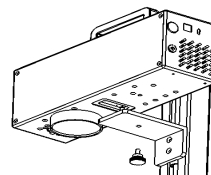
Table mode:



- ❶ Install the support arm, align the screw holes on the base, and install 4 M4*10 hexagon socket screws from the bottom



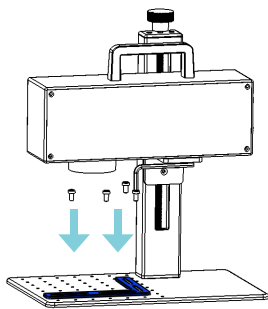
- ❷ Install laser component, Tighten the knurled screw



- ❸ Supply power with plugging in the adapter to start work

Installation and usage

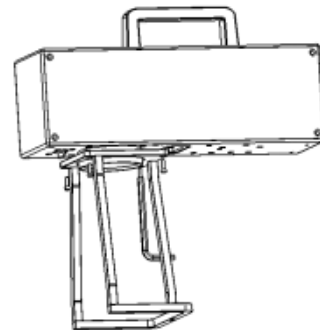
Batch mode:



- ❶ Install the L-shaped positioning plate with the M4*8 cup head screws and tighten them.



- ❷ Install the Handheld kit with the M3*10 hexagon socket screws.

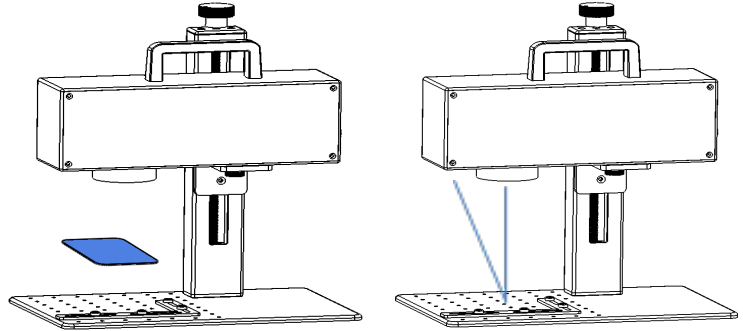


- ❸ Install the Handheld kit with the M3*10 hexagon socket screws.

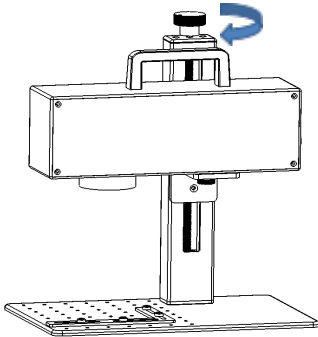
Focusing method

1.Place object

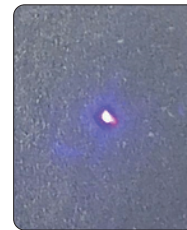
- **PC software:** click focus button,  red Light
- **Mobile phone app:** click focus button,  red Light



2.Switch height adjusting button, move laser up and down, till the two spots coincide,finish.



NO



OK

Software installation instructions

A.Windows OS: Use USB drive installation resource

B.Non-windows OS: calibration as per below is needed,update the corresponding value to complete the calibration

The image shows a software interface for configuration and marking. The top part is a dialog box titled "Configuration Config[default]" with a close button (X). It has four tabs: "Area", "Laser Control", "Port", and "Other". The "Area" tab is selected and highlighted with a red box. Inside the "Area" tab, there are several input fields: "Area Size" (100.000 mm), "Offset X" (-0.4000 mm), "Offset Y" (0.4000 mm), "Max Line" (2 mm), and "Angle" (0.0000 °). These fields are numbered 1 through 5 with red numbers. To the right of these fields is a section titled "To Specified Location After Mark" with three radio button options: "Do Not Move", "Galvanic Center" (which is selected), and "Top Left Of The Object". Below the dialog box is a section titled "Marking parameters". It contains four buttons: "Marking", "Preview" (highlighted with a red box), "Galvanometer" (highlighted with a red box), and "Axis of rotation". Below these buttons is a "Preview method:" label followed by two radio button options: "Outline" (selected, highlighted with a red box and labeled 1) and "Circumscribed rectangle" (labeled 2).

Configuration Config[default]

Area Laser Control Port Other Red

Exterior

1 Area Size 2 100.000 mm Offset X 3 -0.4000 mm Offset Y 0.4000 mm Max Line 2 mm Angle 0.0000 °

To Specified Location After Mark

☐ Do Not Move

☒ Galvanic Center

☐ Top Left Of The Object

Marking parameters

Marking Preview Galvanometer Axis of rotation

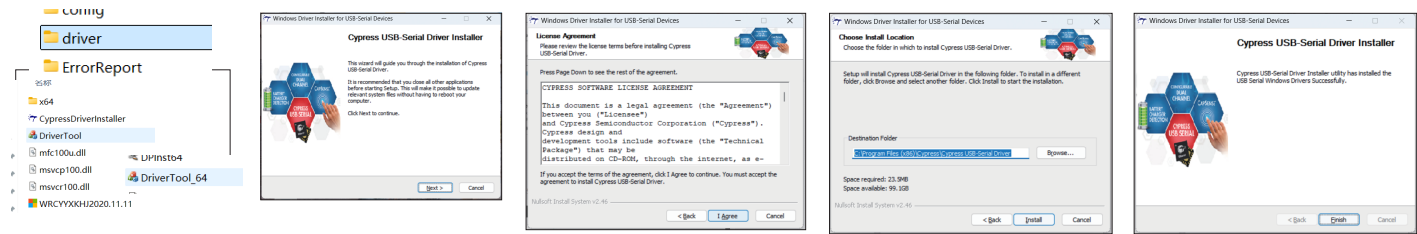
Preview method: ☒ Outline 1 ☐ Circumscribed rectangle 2

PC Software source and installation

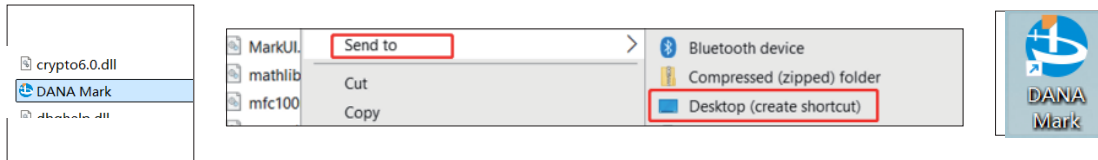
How to obtain windows software

Install the software from the U disk or log in to the official website https://hub.globalso.com/b/file_manager_downLoad?path=/file_manage/2393/20241230/dana-desktop-laser-mark-pc.zip download the software and extract it to the computer;

1. Copy the "DANA Desktop Laser Mark-PC installation package into the computer and unzip it to find the "Driver" installation driver.



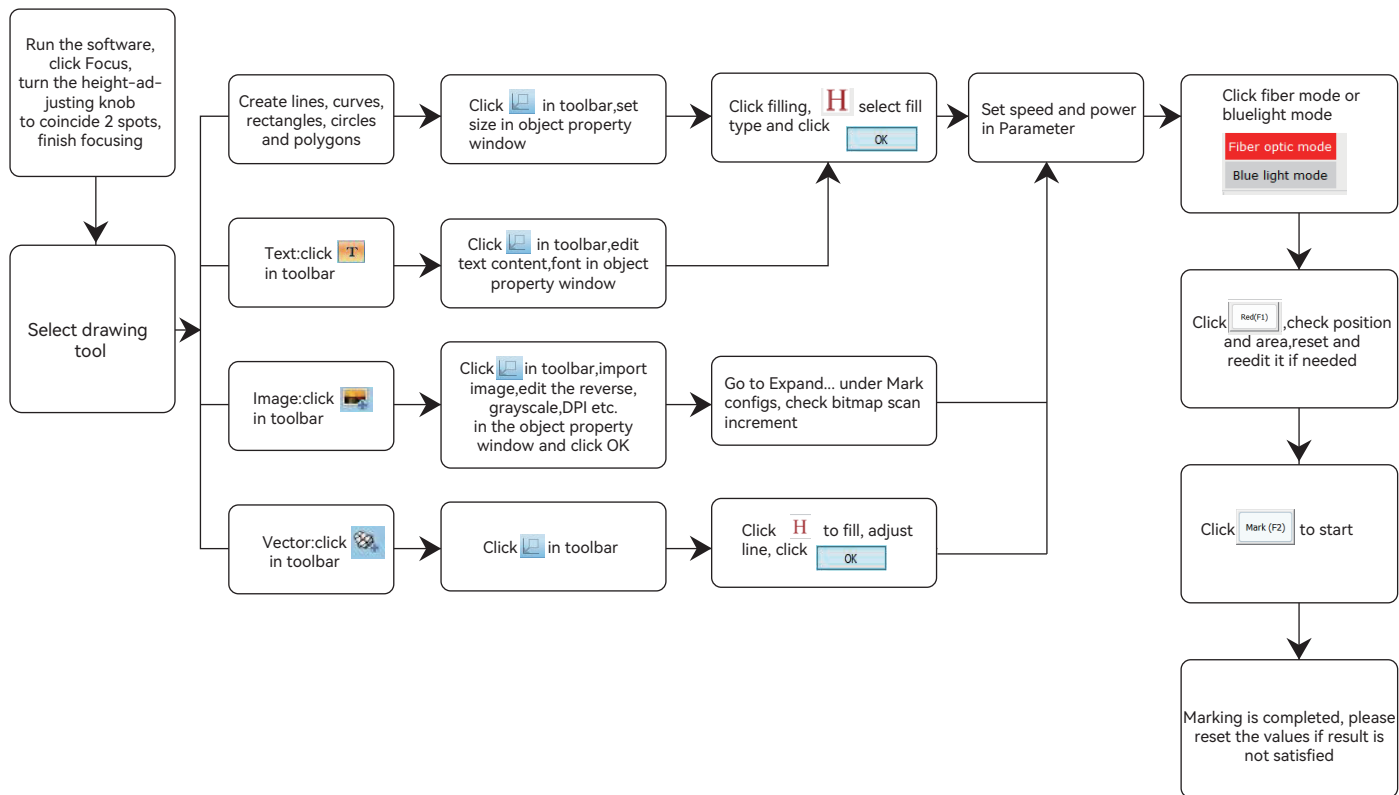
2. Send "AtomStack Maker.exe" to the desktop shortcut, open it and use it.



How to obtain MacOS software

Log in to the official website https://file.globalso.com/file_manage/2393/20241230/addmark_1213.zip to download the software and unzip it to your computer; open the installation package and follow the installation prompts to complete the software installation.

PC software basic operation



Mobile App source and installation

Method 1: Android software installation resource and method

1. Scan QR code below to download "ADDMARKER" app to mobile phone to install



Method 2: IOS software resource and method

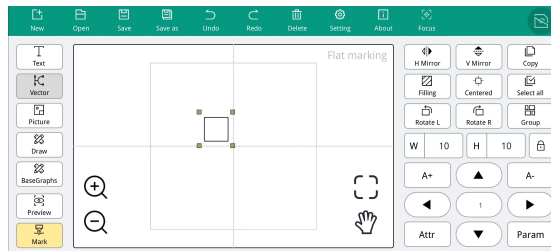
1. Scan QR code below to download "ADDMARKER" app to mobile phone to install



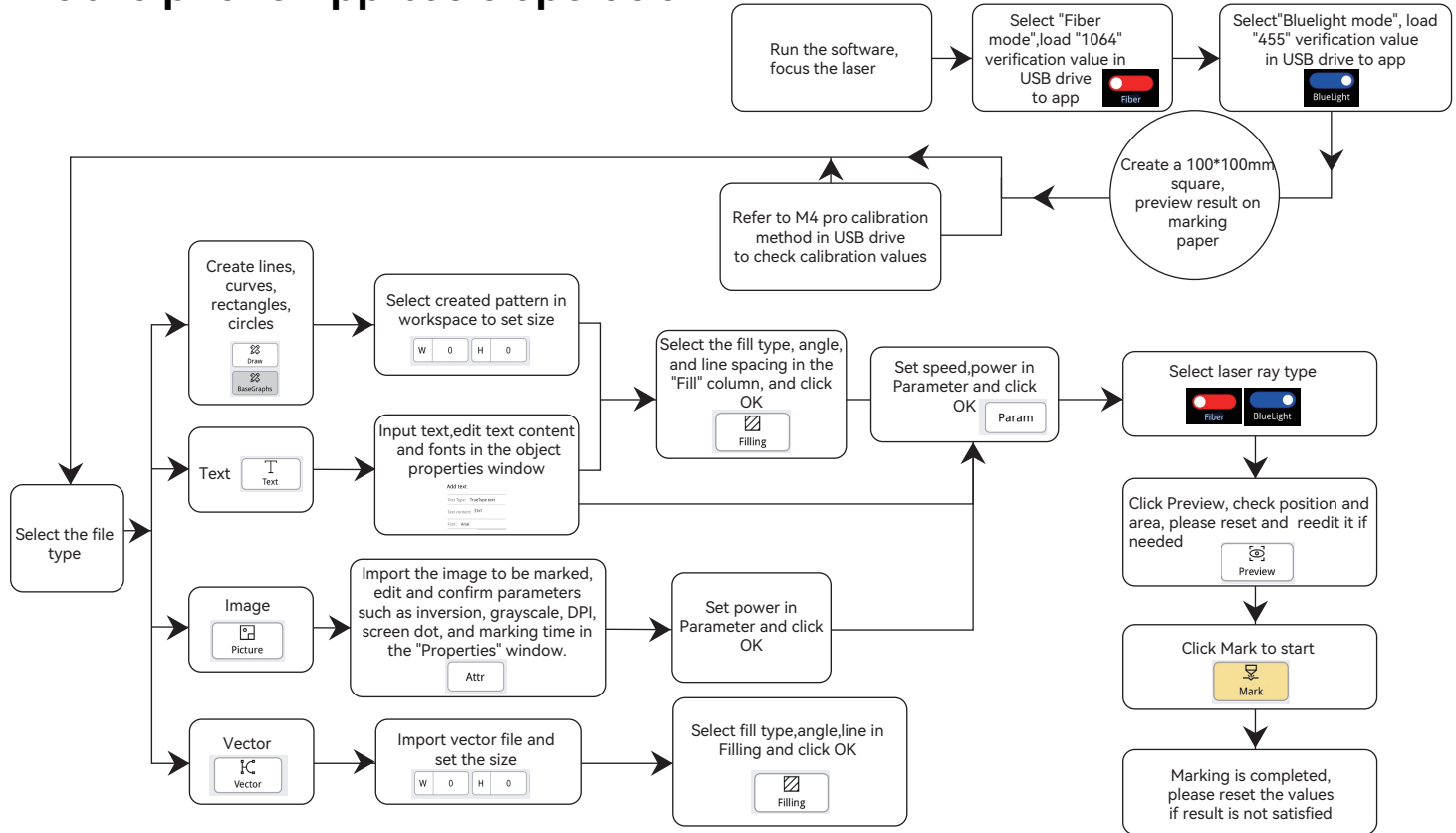
Turn on marking machine, connect mobile phone wifi hotspot of " M4 Pro **** ", wifi password:12345678



Open "ADDMARKER" app to enter the homepage.



Mobile phone App basic operation





FQA

1. Machine shows no response after booting up.

1.1 Power connection failure: check the socket and switch on the body to ensure that it has been plugged in correctly

1.2 Power on: Check the power button on the panel to ensure it is pressed and the button light is on, and whether the original matching power supply is used.

2.Unable to connect to the computer.

2.1 Not connected to USB cable: Check the computer and machine interfaces of the USB cable to ensure correct connection. Some USB ports on the front panel of desktop computers may be ineffective and need to be connected to sockets on the back of the host.

2.2 Incorrect driver installation: Please install the driver according to the instructions. If the computer recognizes the device as a serial port after installation, the hardware connection is normal.

2.3 Other special situations: Disconnect the USB cable and power. After the device is completely powered off for 5 seconds, reconnect the power.

3. Light or no trace when marking.

3.1 Inaccurate focusing: Please read the focusing section of the operation manual for accurate focusing.

3.2 Marking speed: Marking speed is too fast or marking time is too short. Please refer to the parameter table to readjust the parameters.

3.3 Light marking energy: Imported images need to be clear. If the lines are too thin or the colors are too light, it will directly affect the engraving effect.

3.4 Object placement: Since the laser focus is fixed, the object being engraved needs to be flat and parallel to the body of the machine. If the engraving surface is not flat, the focus is inaccurate, resulting in abnormal engraving effects.

3.5 Bitmap printing shows no traces or shallow traces. Confirm whether the dot is selected and enter the appropriate threshold value.



THE EXPERT OF LASER MARKING SOLUTION

Customer service:

For detailed warranty policy, please visit our official website: www.danamarking.com

For technical support and service, please email support@danamarking.com

Manufacturer:

Dana (Zhengzhou) Industrial Equipment Co., Ltd

Address:

7th Floor, Building2, Jiata Phase I, LianhuaStreet, Hightech Zone,
Zhengzhou,Henan, CHINA

Zip code: 450000

Scan QR code:

QR code reader/barcode scanner or any app with a scanner

