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Manual Book

Laser Slide Printer

JQ-GM620

JQ-GM630

JQ-GM640

JQ-GM640P

Version 3.0

Intended Use

Jinquan Laser Cassette/ Slide Printer (hereafter in as Printer) is an instrument for hospitals and/or research institutes to label tissue embedding cassettes and microscope slides, to identify, sort, trace, retrieve, store the relevant specimens, as part of a bar-code based workflow management system.

The Printer offers permanent indelible marking on tissue embedding cassettes and microscope slides with texts, linear and 2-dimensional barcodes, and logos throughout the life span of the cassettes and slides.

For In-Vitro Diagnosis only. For professional use only.

Applicable scenario:

Laser Slide Printer (JQ-GM-620, JQ-GM-630, JQ-GM-640, JQ-GM-640P) is applicable where microscope slides are essential tools to carry. i) sectioned tissues in histopathology, ii) blood smear in hematology, iii) microorganism titer in biology, etc.

The validity period of the printer: 5 years

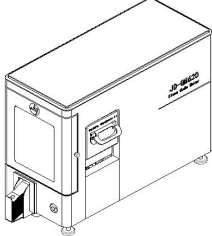

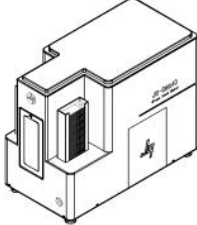
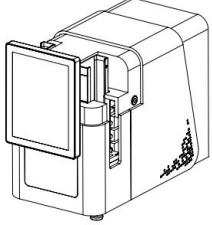
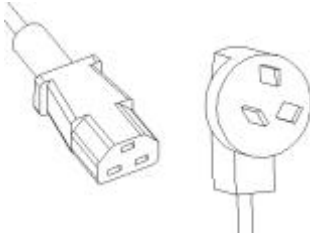
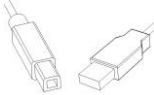
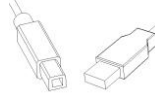
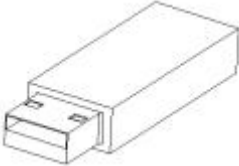


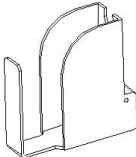
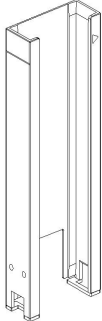
Warranty: 2 year

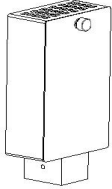
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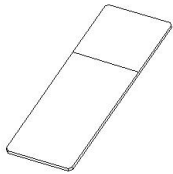
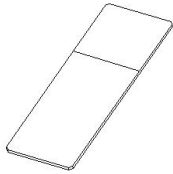
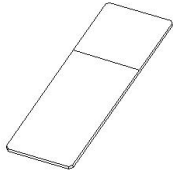
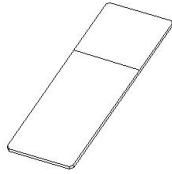
I. Components and accessories

Please confirm you have received all components and accessories. Contact local distributors if any part is missed.

	JQ-GM620	JQ-GM630	JQ-GM640	JQ-GM640P
Printer				
Power Cord				
USB Cable		NO		NO
USB stick				
Cartridge				
Collector				

Dust Filter				
Touch Screen	No	Yes	No	Yes
Brush	YES			
Manual Book	YES			
QA certificate	YES			

Required but not provided.

	JQ-GM620	JQ-GM630	JQ-GM640	JQ-GM640P
Slide(75x25x1mm)				
Computer	Yes	No	Yes	No

II. Precaution

1. Do not remove the cartridge and collector when the printer is working
2. Avoid eye or skin exposure to direct or scattered radiation
3. When the collector is jammed, please restart the printer or reset it by pressing the green bottom.
4. When the collector is full, the printing will halt automatically. Please remove the collector and replace an empty collector to resume.
5. The printer should be working in a stable 15-30 Celsius environment

temperature.

1. "Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure."

2. The performance parameters of the laser used in the product are as follows:

Laser wavelength: 355nm±1nm

Laser operating mode: Pulse type

Laser pulse width: 8ns

Laser repetition frequency: 20KHz

Maximum average output power of laser: >1.2W

Class I laser products
 Manufacturer's name:
 Guangdong Jinquan Medical Technology Co., Ltd
 Manufacturer's and Manufacturing address:
 Room2001, Building C, No.2 Gongyesi road, Xitou,
 Songgang Street, Bao'an District, Shenzhen
 Production time:September 2022
 Made in China
 Complies with 21 CFR Chapter 1 , Subchapter J.



III. Technical Datasheet

	JQ-GM620	JQ-GM-630	JQ-GM-640	JQ-GM-640P
Dimensions(mm)	460 x 200 x 340	460 x 200 x 340	460 x 240 x 350	470 x 255 x 360
Net Weight(kg)	19	19	25	25
Voltage(V)	90 ~ 240	90 ~ 240	90 ~ 240	90 ~ 240
Frequency(Hz)	50 ~ 60	50 ~ 60	50 ~ 60	50 ~ 60
Input power(W)	300	300	300	300
Laser Power(W)	1	1	1	1
Work Noise(Db)	≤65	≤65	≤65	≤65
Cartridge	100	100	200	200

loadability (slide)				
Collector loadability (slide)	35	35	200	200
Interchangeable cartridge/collector	No	No	Yes	Yes
Print Speed (slide/second)	3	3	3	3
Resolution(dpi)	500	500	500	500
Model of fuse	F6AL 250V, Fast, 250V, 6A, -20°C~80°C			



The loadability varies because of the tolerance of slide thickness; the speed and productivity vary based on printing contents and on-demand or continuous printing mode.

IV. Installation

1. Connect the printer to a computer, and turn on the power;

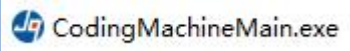


Please make sure the antivirus software is inactivated or turned off. Turn it on to scan your system after the following installation is done.

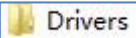
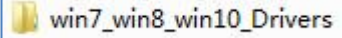
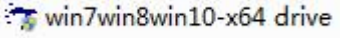
If the warning is ignored, installation may fail.

Please repeat the installation from steps 2 to 4 again.

2. Plug the USB stick into the computer, and copy the compressed file to any hard disk of the computer, decompress the file, re-name it as per your favorite;

3. Find  and send it to the computer desktop, re-name it such as Slide Printer as per your convenience;

4. Install printer drivers:

→  →  → 

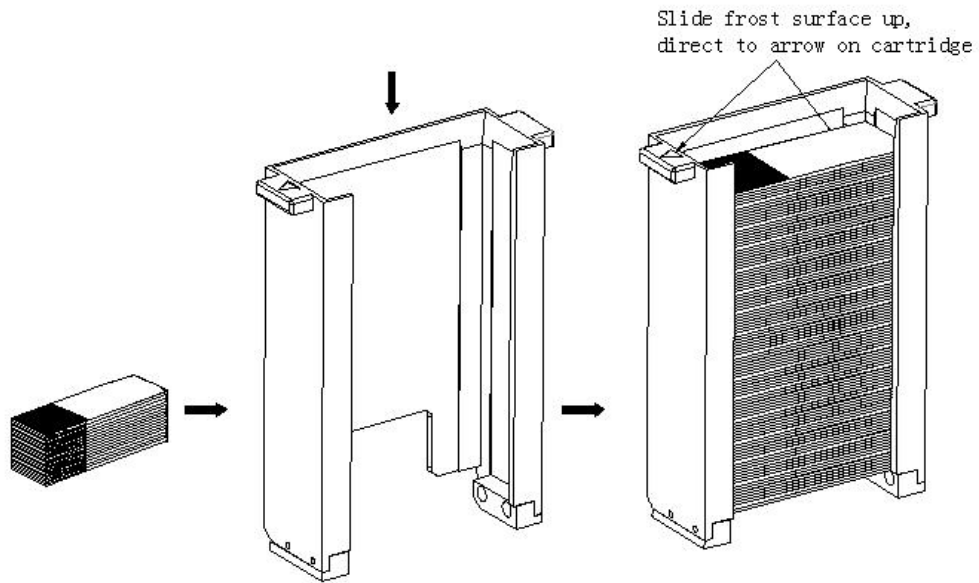
If the printer is connected to the computer successfully, leave it and follow up below.

- *JQ-GM630 and 640P: The software has been installed on the touchpad. Connection to a computer same as above mentioned provides an alternative operation platform.*
- *Here the computer means an independent computer and/or a computer integrated into LIS /HIS system.*

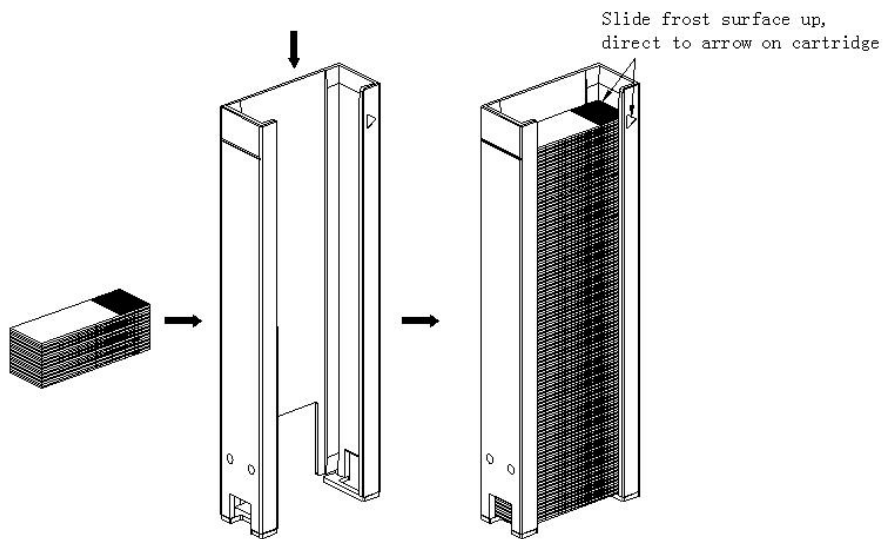
V. Load and unload slides

1. Load slides into the cartridge:

JQ-GM620 and 630:

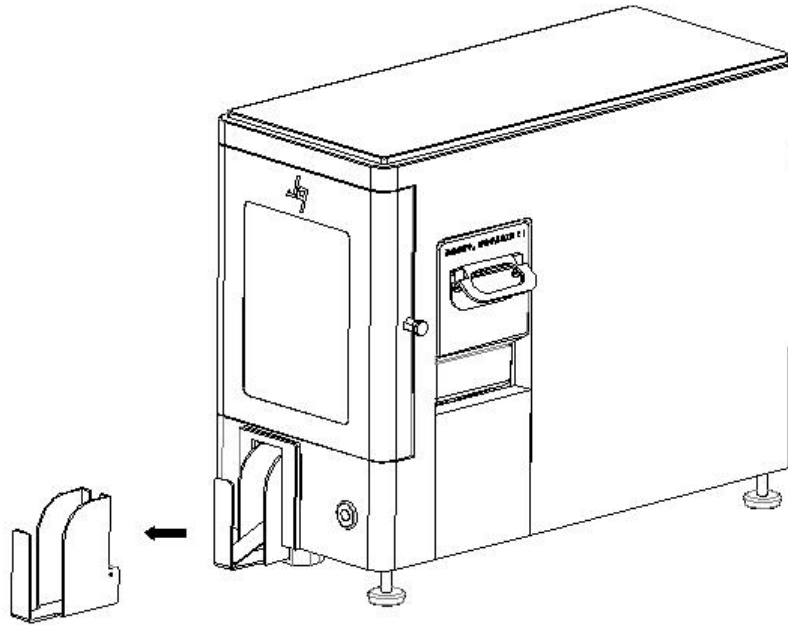


JQ-MG640 and 640P



2. Unload slides from a collector:

JQ-GM620 and 630:



JQ-MG640 and 640P

Same as loading just opposite direction

VI. Printing

1. Back to desktop, and follow up:



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admin(Password: jq1223)

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To add, delete, modify new user(s) by **admin(Password: jq1223)**, user(s) can

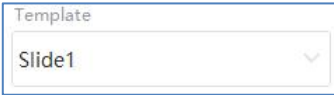
change the password(s) at

2. Refer to section 4 of article IV (installation), the below panel (in the bottom left corner of the software interface) shows the printer is properly connected to the computer:

199224234248129219

The equipment number is unique to each printer which is the identification number of each printer.

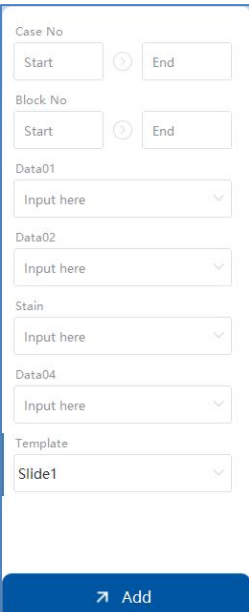
3. Load the template and data (Print background data)

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- Template(s) have been created as per request beforehand. If not, please contact us or a local distributor.

4. Add the information that needs to be printed on this interface

→



Case No
Start End

Block No
Start End

Data01
Input here

Data02
Input here

Stain
Input here

Data04
Input here

Template
Slide1

➤ Add

Input PathologyNum manually, and  , and .

Congratulations! You have done printing.

VII. Regular maintenance

- Daily maintenance

Brush off the glass shards, dust from tracks, internal motion mechanisms

- Weekly maintenance

1. Loading and unloading portal clearance
2. Laser lens clearance
3. Vent clearance

- Monthly maintenance

1. lubricate the motion mechanisms
2. Internal thoroughly clearance

- Semiannual maintenance

Replace the activated carbon particles in the filter.

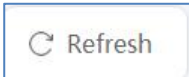
VIII. Alarm and exclusion

NO	causation	Alarm (buzz/beam) 2 seconds: L 1 second: S	Exclusion
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		Beaming: F Time gap: - , --	
1	Empty cartridge	LLL--F	Load cassette as per section 1, Article V
2	Full collector	LLL--F	Unload cassette as per section 1, Article V
3	Delayed reaction from printer to software instruction	SS-SS-SS-SS-SS--F	<ol style="list-style-type: none"> 1. USB cable connection is loose; or 2. reset; or 3. Turn off and restart the printer; or 4. Restart the software.
4	Halt without alarm	N/A	<ol style="list-style-type: none"> 1. Cartridge hopper closed loosely; or 2. Collector positioned loosely; or 3. Software's order to halt unnoticed.

















Below alarm needs to turn off the printer to avoid electric shock.





Once the jam is cleared, click  to resume printing after pressing the reset button of the printer.

If the problem cannot be solved, turn off the printer and contact the local distributor for after-sales service.

5	Mechanical jam by glass shards or slides	SS-SS-SS-SS-SS--F	<ol style="list-style-type: none"> 1. Open the observation door; 2. Remove foreign objects; 3. Press the reset button; 4. click  to resumes working.
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Symbol Interpretation

Symbol	Introductions	Symbol	Introductions
	CE Symbol		In Vitro Diagnostic equipment
	Manufacturer Name Address		Name and Address of European Union Representative
	Manufacture Date		Use until year & month (Expiration date)
	Serial Number		Please read and observe the guidance provided in this manual
	Warnings and Precautions		Unique device identifier
	Keep dry		Keep away from sunlight
	Importer		Distributor

	Model number		Country of manufacture
	Unique device identifier		Switch



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