Manual Book

Laser Cassette Printer

JQ-EMR560P

JQ-EMR560

JQ-EMR830

JQ-EMR840

Version 3.0

Intended Use

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

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

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

Applicable scenario:

Laser Cassette Printer (JQ-EMR560P, JQ-EMR560, JQ-EMR830, JQ-EMR840) is applicable for where process tissues as specimens, carried on in tissue embedding cassette, in histopathology, oncology, forensic analysis, biology, etc.
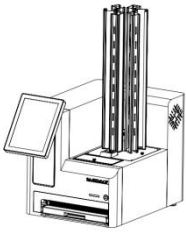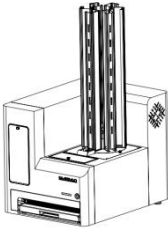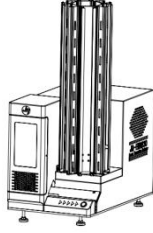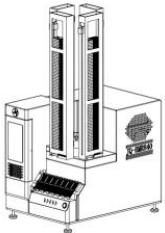
The validity period of the printer: 5 years
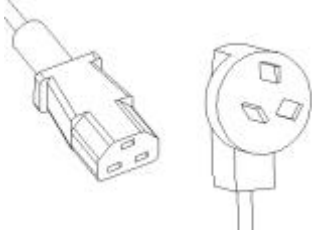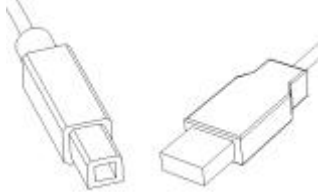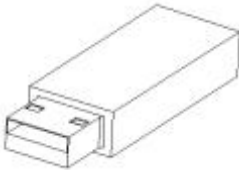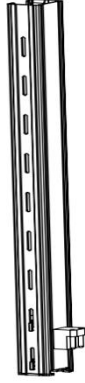
Warranty: 2 year

Contents

I. Components and accessories

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

	JQ-EMR560P	JQ-EMR560	JQ-EMR830	JQ-EMR840
Printer				
Power Cord				
USB Cable	NO			
USB stick				
Magazine				

Collector		N/A	N/A
Manual Book	YES		
QA certificate	YES		

Required but not provided.

	JQ-EMR560P	JQ-EMR560	JQ-EMR830	JQ-EMR840
Cassette				
Computer	NO	Yes	Yes	Yes

II. Precaution

1, Do not remove the magazine and collector when the printer is working

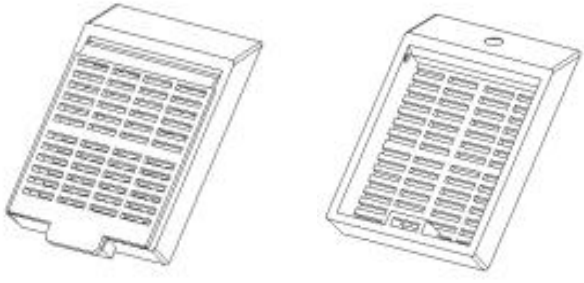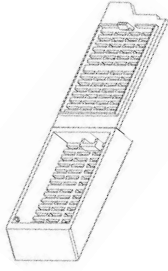2, Avoid eye or skin exposure to direct or scattered radiation

3, When the collector is jammed, please restart the printer or reset it by pressing the green button.

4, When the collector is full, the printing will halt automatically. Please remove one or whole printed cassettes 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.

DANGER

LASER RADIATION - AVOID DIRECT EXPOSURE TO BEAM

Wavelength:355nm±1nm
Maximum single pulse energy:6x10⁻⁵J
Pulse width:8 x10⁻⁹s
Repetition frequency:20KHz
CLASS IIIb LASER PRODUCT

AVOID EXPOSURE - Laser radiation is emitted from this aperture.

III. Technical Datasheet

	JQ-EMR560P	JQ-EMR560	JQ-EMR830	JQ-EMR840
Dimensions(mm) (L x W x H)	560 x 420 x 460	560 x 420 x 460	510 x 300 x 366	490 x 330 x406
Net Weight(kg)	45	40	30	45
Voltage(V)	90～240	90～240	90～240	90～240
Frequency(Hz)	50～60	50～60	50～60	50～60
Input power(W)	350	350	350	350
Laser Power(W)	1	1	1	1
Work Noise(Db)	≤65	≤65	≤65	≤65

Magazine loadability (cassette)	80	80	80	75
Number of magazines	6	6	6	4
Collector loadability (cassette)	150	150	N/A	N/A
Print Speed (second/slide)	3	3	3	3
Resolution(dpi)	500	500	500	500
Model of fuse	F6AL 250V，Fast，250V，6A，-20℃~80℃			

⚠The loadability varies for different cassettes; the speed and productivity vary based on the printing contents, and on-demand or continuous printing model.

IV. Installation

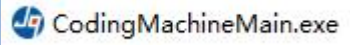1. Connect the printer to the computer, and turn on the power;

⚠**Please make sure the antivirus software is inactivated or turned off. Turn it on to scan after the following installation is done.**
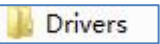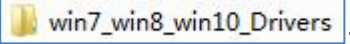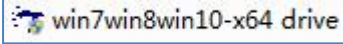
If the above is ignored, the installation will fail. And repeat the installation

steps step 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 Cassette 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-EMR560P*: 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.*
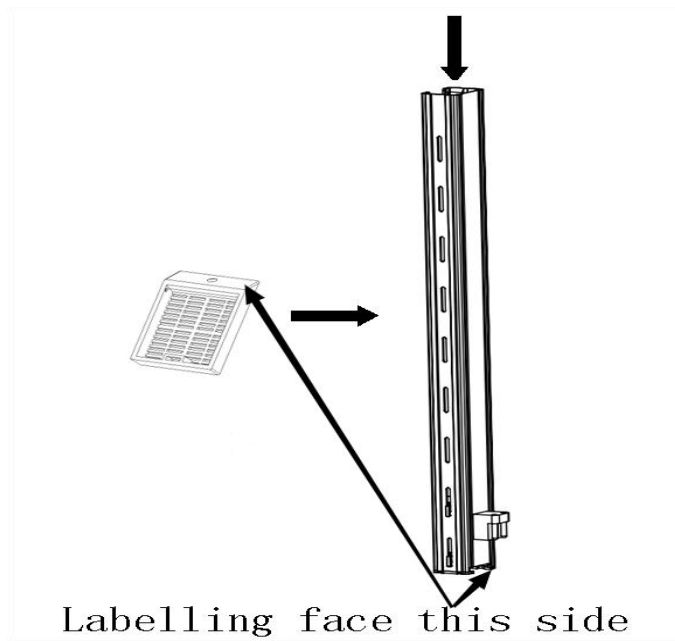
V. Load and unload the cassette
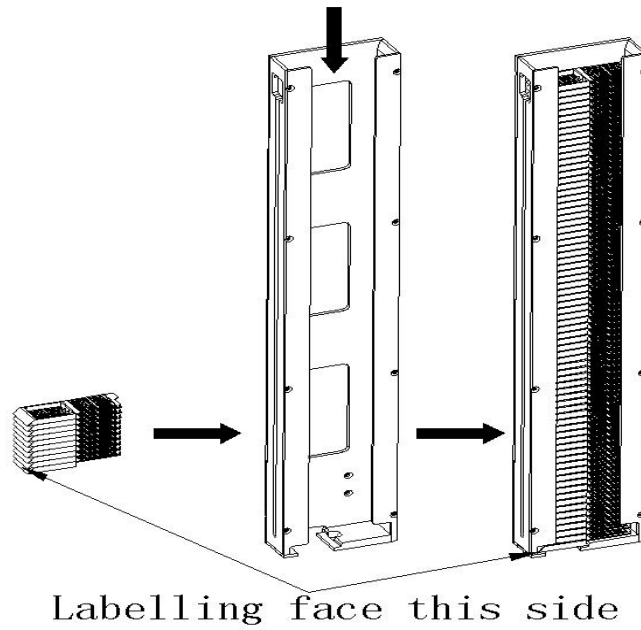
1. Load cassettes into the cartridge:

JQ-EMR560 and 560P (the angle's direction is center-facing)

Labelling face this side
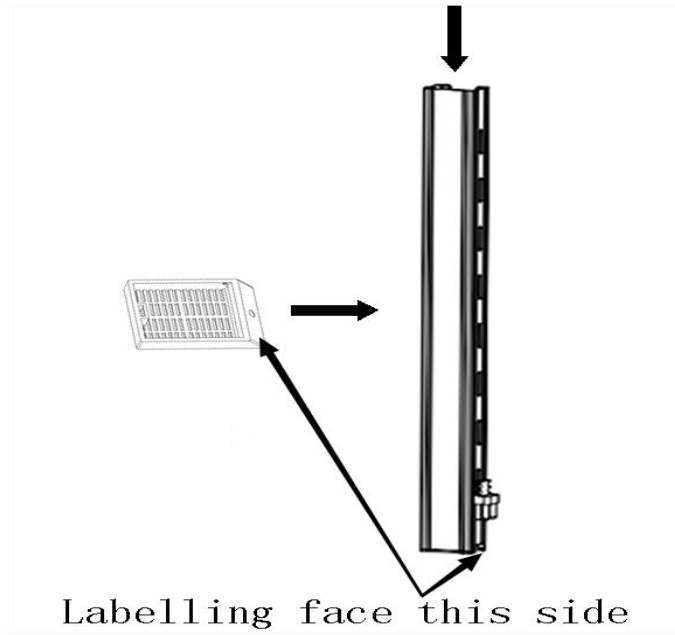
JQ-EMR830 （**the angles' direction is clockwise**）

Labelling face this side

JQ-EMR840 （**the angles' direction is clockwise**）

Labelling face this side

2. Unload cassette from a collector:

JQ-EMR560 and 560P and 830:

N/A

JQ-EMR840

VI. Printing

1. Back to desktop, and follow up:

→

→

admin(Password: jq1223)

→

→

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)

→
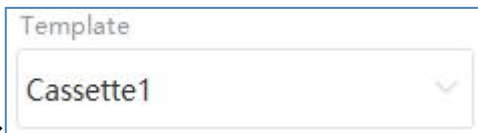
● Template(s) have been created as per request beforehand. If not, please

contact us or a local distributor.

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

→

Input PathologyNum manually, and , and .

Congratulations! You have done printing.

MAG NO interpretation:

Magazine NO:

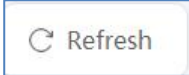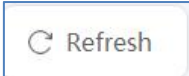0—randomly load cassettes from available magazines

1—assign the cassette from magazine No. 1

...

VII. Regular maintenance

● Weekly maintenance

1. Loading and unloading portals clearance

2. Laser lens clearance

3. sensors clearance

● Monthly maintenance

1. lubricate the motion mechanisms

2. Internal thoroughly clearance

VIII. Alarm and exclusion

NO.	causation	Alarm (buzz/beam) 2 seconds: L 1 second: S Beaming: F Time gap: - , --	Exclusion
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	SS-SS-SS-SS-SS--F	1. USB cable connection is loose; or 2. reset; or 3. Turn off and restart the

	instruction		printer; or 4.Restart the software.
4	Halt without alarm	N/A	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 [⟳ Refresh] 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 cassettes	SS-SS-SS-SS-SS--F	1. Open the observation door; 2. Remove foreign objects; 3. Press the reset button; 4. click [⟳ Refresh] to resumes working.

Symbol Interpretation

Symbol	Introductions	Symbol	Introductions
$C\epsilon$	CE Symbol	**IVD**	In Vitro Diagnostic equipment
(manufacturer symbol)	Manufacturer Name Address	EC | REP	Name and Address of European Union Representative
(manufacture date symbol)	Manufacture Date	(hourglass symbol)	Use until year & month (Expiration date)
SN	Serial Number	(read manual symbol)	Please read and observe the guidance provided in this manual
⚠	Warnings and Precautions	**UDI**	Unique device identifier
(keep dry symbol)	Keep dry	(keep away from sunlight symbol)	Keep away from sunlight
(importer symbol)	Importer	(distributor symbol)	Distributor
#	Model number	(factory CC symbol)	Country of manufacture
UDI	Unique device identifier	⏻	Switch

(manufacturer symbol) **Guangdong Jinquan Medical Technology Co.,Ltd.**

Room2001, Building C, No.2 Gongyesi road, Xitou, Songgang street, Bao'an

District, Shenzhen，　Guangdong, China

EC \| REP   SUNGO Europe B.V.
Olympisch Stadion 24, 1076DE Amsterdam, Netherlands