

# Operation Manual

<English version>

Thank you very much for purchasing **LC** series printer



- In order to use LA series printer correctly and safely and understand this product's capability, please read this manual carefully.
- This manual includes equipment structure, description, technical parameters, operation manual, safety information, application of software, etc.
- This manual is subjected to change without notice.
- Contents here in contained are believed to be correct, however, please contact us if you find any mistakes.

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## 1.1 Important Safety Measures

Please read the following instructions before using the printer. Follow cautions and instructions which are labeled on the printer:

- 1) Do NOT block the opening on the top of the printer.
- 2) Do NOT insert any object into the printing platform. Prevent spilling liquid onto the printer.
- 3) ONLY 220V can be applied.
- 4) Connect all the power cord to a single socket extension. Avoid sharing the socket with the devices which will be on and off frequently.
- 5) Avoid using the socket with self-timer control and with the switch on the wall.
- 6) Keep your computer away from any device which will release electro-magnetic field, such as wireless phone.
- 7) Do NOT use damaged power cord.
- 8) If using an extra power cord, keep in mind that the total ampere of this device does not exceed the assigned ampere of the power. Also, the total ampere of all the device which connect to single socket cannot exceed the assigned ampere.
- 9) Do NOT try to repair the printer.

**When encounter the following circumstance, disconnect the power and contact your local distributor for support:**

- 1) Power cord or plug is damaged;
- 2) Liquid is spilled onto the printer;
- 3) The printer falls down or the surface is broken;
- 4) Printer does not run normally.

**1.2 Handling Printer Caution**

- 1) Do NOT move the carriage when the power is on.
- 2) Always use the power switch to turn on or off the printer. Do NOT try to remove the data cable or the power cord when the machine is on.
- 3) Make sure the carriage is stabilized in the origin position during transport.

**1.3 Handling Ink Tank Caution**

- 1) Please store ink tanks at the place where children cannot reach. Do NOT let children touch the ink tank.
- 2) If ink is spilled into eyes, immediately wash with water and see your doctor.
- 3) Do NOT shake the ink tank, this may cause leakage.
- 4) Please often check the ink content in main ink tank, avoid unnecessary loss due to lack of ink.
- 5) Please often check the waste ink tank and replace it in time when it becomes full.

**1.4 Printer Installation Site**

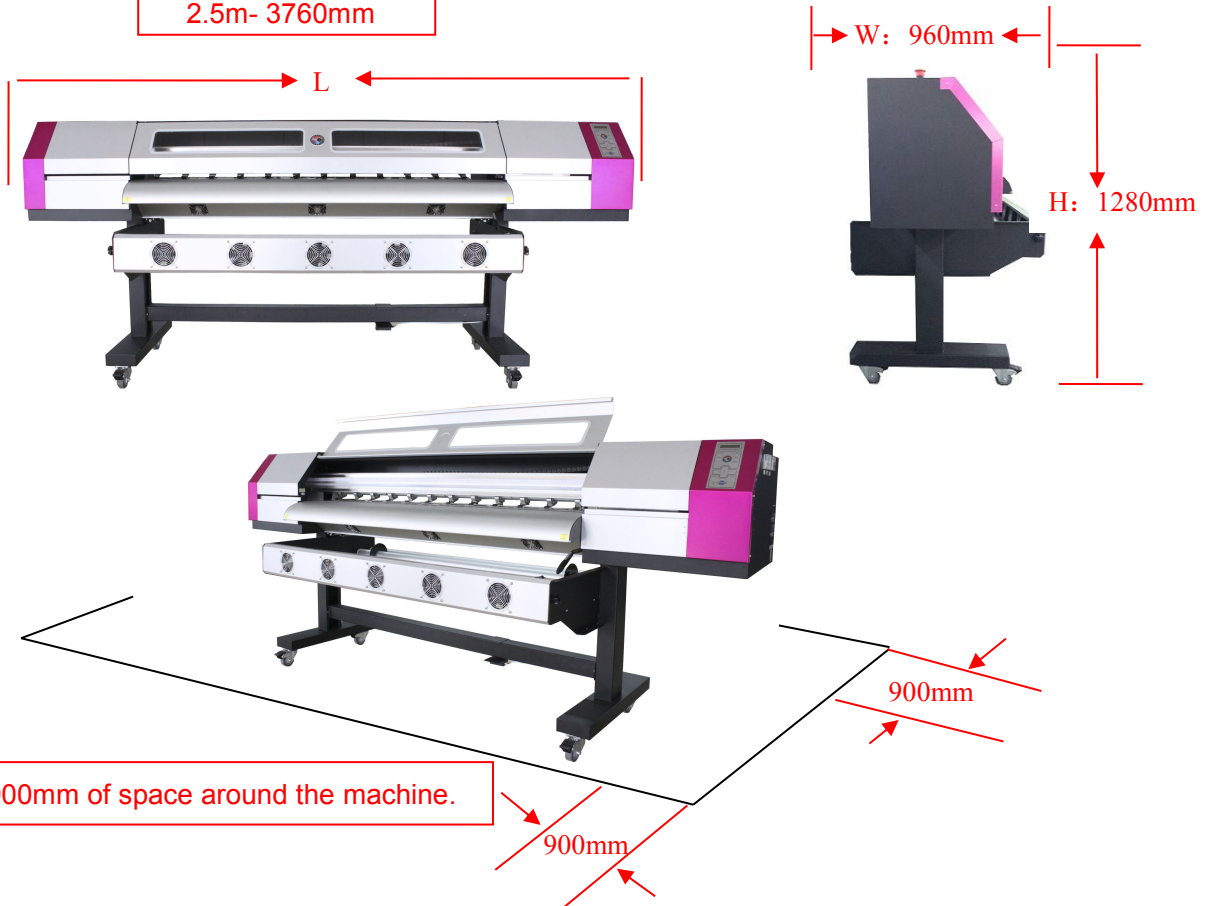
- 1) Place the printer on a level floor otherwise it will not operate normally.
- 2) Avoid placing the printer in the area with huge change of temperature and humidity. Do NOT expose the printer to direct sunlight or heat. Avoid placing the printer in any possible shaking or vibrating area.
- 3) Leave enough space around the printer to ensure normal ventilation.
- 4) Place the printer close to the power socket so that power cord can be removed and plugged easily.

### 2.1 Environment Requirement

Keep the room temperature between 20—30°C, and the humidity between 40—60%. Air conditioner and humidifier may require. Keep a distance from strong radiation field. The floor must be level.

#### Site Requirement:

L: 1.6m- 2820mm  
1.8m- 3056mm  
2.1m- 3356mm  
2.5m- 3760mm



### 2.2 Electrical requirement

The printer only supports AC 220V. A transformer is needed if the area is using AC110V.

! The printer must be well grounded (the grounded voltage should be less than 0.3V, and the grounded resistance should be less than 3Ω).

! UPS and voltage stabilizer is highly recommended.

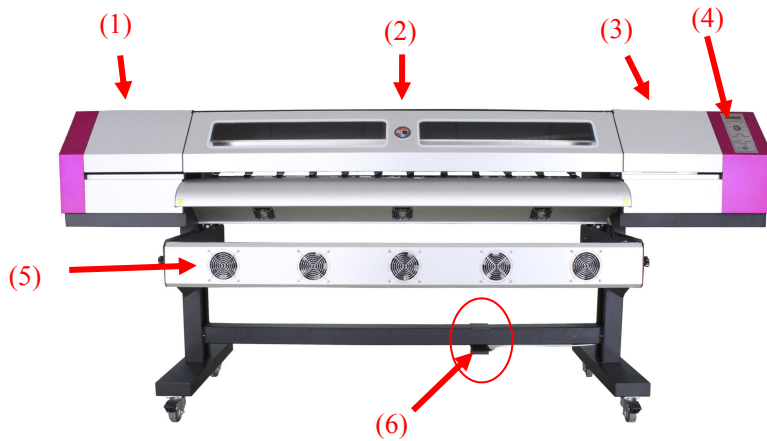
! **Note:** 1.6m Heater: 1320W (6A)、Printer: 330W (1.5A)  
1.8m Heater: 132W (6A)、Printer: 330W (1.5A)  
2.1m Heater: 1540W (7A)、Printer: 330W (1.5A)  
2.5m Heater: 187W (8.5A)、Printer: 330W (1.5A)

Note: The total power consumption of the machine cannot be higher than the assigned power on the socket.

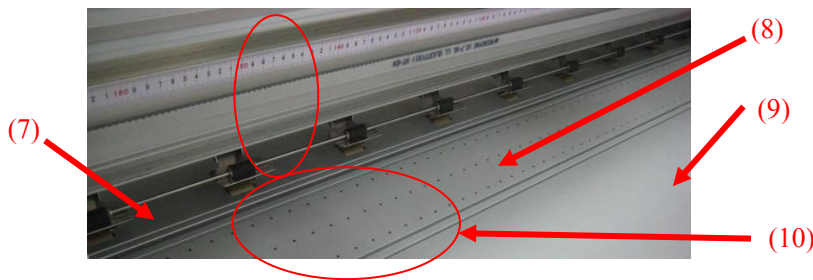
**2.3 Procedures of Assembling**

- 1) Move the packing box to the working site and avoid strong shaking.
- 2) Disassemble the wooden packing box from top to bottom. Check whether the parts are complete or not according to the packing list.
- 3) Lift the printer out by a forklift, and move it to the installation site.
- 4) Check if the printer is level.
- 5) Get rid of all the parts that stabilize the carriage holder, and install all the spare parts.
- 6) Move the carriage to the left of printer, then move back to the right manually. During this process, checks if there are abnormal resistance and carefully inspect the belt & the encoder sensor are situated in proper position.
- 7) Ground the printer. The grounded voltage should not be more than 0.3V, and the grounded resistance should be less than  $3\Omega$ .
- 8) Connect the USB cable between printer and computer. Check if the wires and data cables are plugged in properly.
- 9) Install the output and the rip software.
- 10) Turn on the printer, the carriage will automatically reposition. Keep your hand on the emergency button for turning off the printer if problem happens suddenly.
- 11) Send a file to print to test the condition of the printer.
- 12) Install the printhead, dampers. Connect the damper to the Flush, click the Clean button to choose Depth clean mode on the software, clean the dampers and the printhead at the same time.
- 13) Install the ink to the cartridge; fill ink for the first time by using Depth clean.
- 14) Print nozzle checking and observe the condition of printheads. It is recommended to keep a copy of the test for reference in the future.
- 15) Printhead alignment.
- 16) Start to Print.

3.1 Machine Structure:



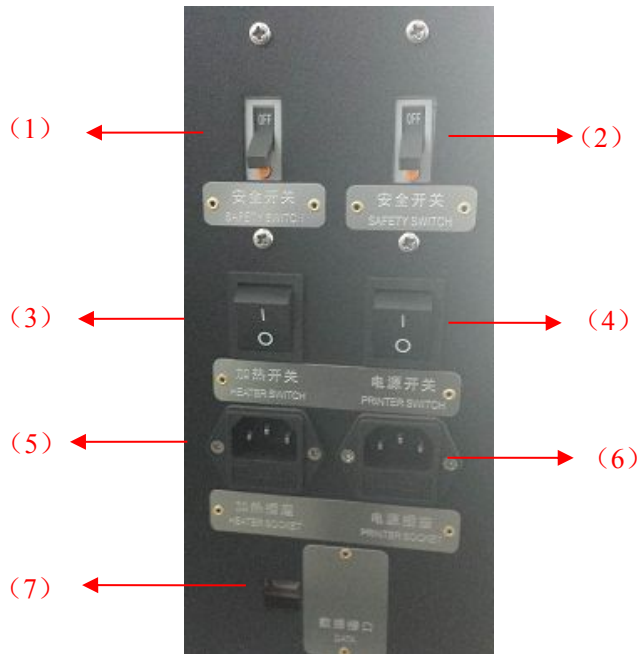
- (1) Left machine box
- (2) Cover
- (3) Right machine box
- (4) Control panel
- (5) Cooling fan
- (6) Take-up sensor



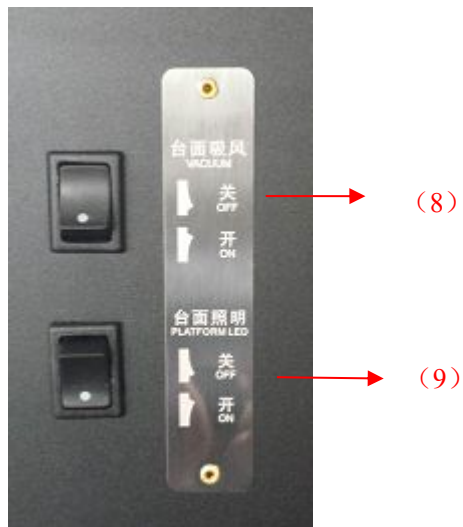
- (7) Rear heater
- (8) Middle heater
- (9) Front heater
- (10) Alloy-aluminum Platen
- (11) Feeding System



3.2 Name and Function of the Controlling Parts:



- (1) Heater safety switch
- (2) Printer safety switch
- (3) Heater main switch
- (4) Printer main switch
- (5) Heater power socket
- (6) Printer power socket
- (7) USB data port



- (8) Vacuum switch
- (9) Platform LED switch



- (10) Lamp



- (11) Emergency stop

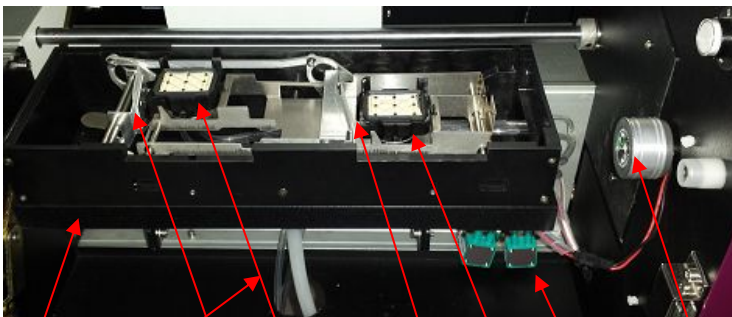


3.3 Ink Supply System:



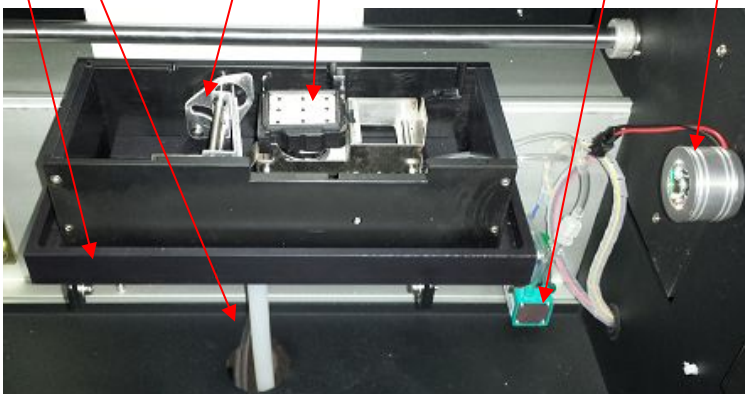
- (1) K Cartridge
- (2) C Cartridge
- (3) M Cartridge
- (4) Y Cartridge

Dual printhead capping system



- (5) Capping system
- (6) Waste ink tube
- (7) Wiper
- (8) Capping pad
- (9) Ink suction pump
- (10) Lamp

- (5)
- (6)
- (7)
- (8)
- (7)
- (8)
- (9)
- (10)



Single printhead capping system

Specification				
Model	LC Model			
Max. printing width	1680mm	1880mm	2180mm	2580mm
Max. media width	1680mm	1880mm	2180mm	2580mm
Printhead	Epson DX5			
Number of printhead	1 / 2			
Ink	Type	ECO ink / Water based ink / Disperse Dye ink		
	Color	4 colors (C, M, Y, K)		
	Volume	1 Liter for each cartridge		
	Ink supply system	Cartridge		
Media	Width	1680mm	1880mm	2180mm 2580mm
	Type	Vinyl, Banner, Film, PS Board, KT Board, PVC Foam Board, etc		
Feeding System	Equipped (Max. weight: 25kg)			(Max. weight: 40kg)
Ph. Cleaning System	Auto cleaning			
Heating System	Back, middle, front heater, front fan			
Clamp	Equipped			
Data Transfer	USB2.0			
Printhead height	Adjustable distance from 2mm~10mm			
Input Voltage	AC 220V/230V, 50Hz/60Hz			
Printer Dimension/Weight	L2820xW990xH1260mm /200Kg	L3080xW990xH1260mm /204Kg	L3380xW990xH1260mm /225Kg	L3780xW990xH1260mm /242Kg
Package Dimension/Weight	L2910xW1100xH845mm /360Kg	L3190xW1100xH845mm /381Kg	L3490xW1100xH845mm /405Kg	L3790xW1100xH845mm /443Kg

Code	Parts Name	Specification	Unit	161L C	1612L C	181L C	1812L C	211L C	2112L C	2512L C
E41113	Printhead Cable	1.0*31pin*400cm	Piece	4	6	4	6	4	6	6
E41020	Power Cable	1.0 Diameter 3M	Piece	2	2	2	2	2	2	2
E41083	USB 2.0 Cable(Belkin)	1.8m	Piece	1	1	1	1	1	1	1
P30164	Damper	EPSON Damper	Piece	10	18	10	18	10	18	18
P30006	φ 4 Tube Connector	φ 4 Inner Turning	Piece	4	8	4	8	4	8	8
P30007	φ 4 Tube Connector	φ 4 Outer Turning	Piece	4	8	4	8	4	8	8
P30009	Tube Plug Connector	Inner Turning	Piece	4	8	4	8	4	8	8
P30003	Tube Plug	φ 4Outer Turning	Piece	4	8	4	8	4	8	8
P30124	Ink supply tube	φ 4.2*2.8 (500MM)	meter	4	8	4	8	4	8	8
P30171	φ4*2 Soft Tube	φ4*2(500MM)	meter	4	8	4	8	4	8	8
P30188	φ 2 Y Shape Tube Connector	White φ 2 Outer Turning	Piece	4	8	4	8	4	8	8
M20142	Screw	3*10	Piece	4	8	4	8	4	8	8
P30052	Grease		Box	1	1	1	1	1	1	1
S50026	Printer control software	UDT_PrintExp	Set	1	1	1	1	1	1	1

~End~