


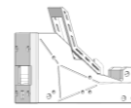



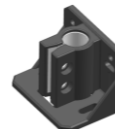

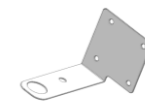



















# Industrial Inkjet Coding Printer

## Quick Installation Guide



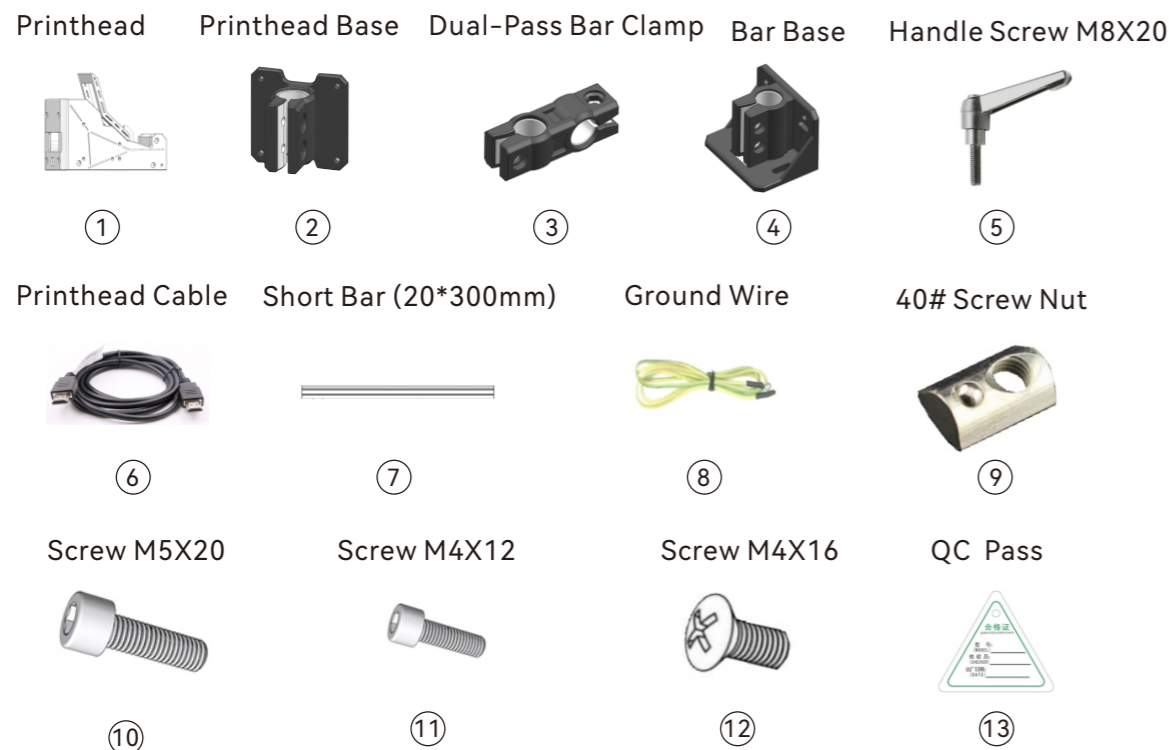
### Components Rereference ( Controller Box)

The number of available components depends on the printer model. Please refer to the specific packing list.

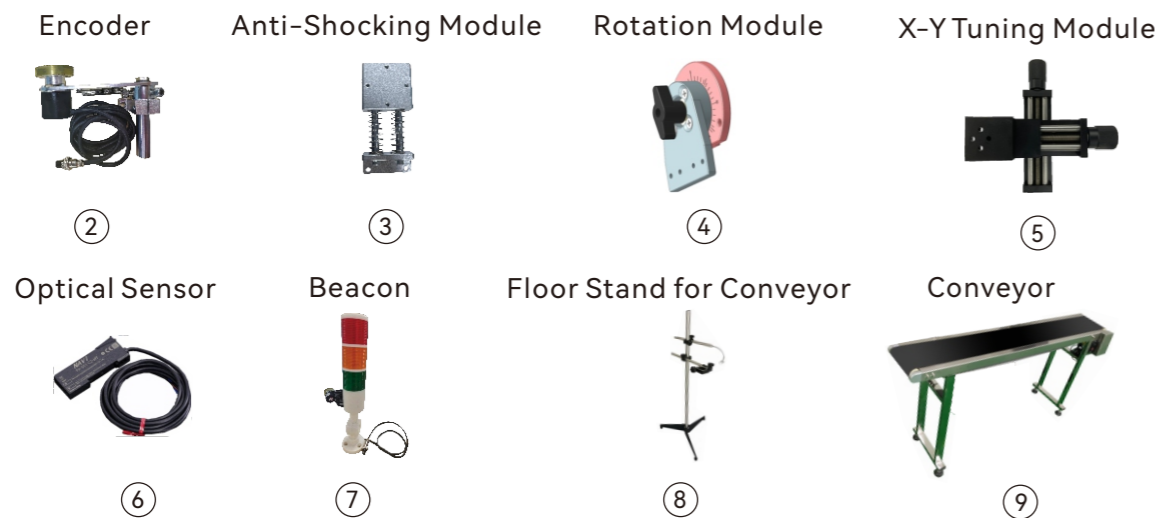
Controller  ①	Printhead  ②	Controller Base  ③	Printhead Base  ④	Dual-Pass Bar Clamp  ⑤
Bar Base  ⑥	Handle Screw M8X20  ⑦	Optical Sensor Mount  ⑧	S3/S4/S6 Hexagon Spanner  ⑨	
Printhead Cable  ⑩	96W Power Adapter  ⑪	Power Cord  ⑫	Screen Pen  ⑬	Optical Sensor  ⑭
USB  ⑮	Long Bar (20*380mm)  ⑯	Short Bar (20*300mm)  ⑰	External Sensor Guide Tube (250mm)  ⑱	
Ground Wire  ⑲	40# Screw Nut  ⑳	Screw M5X20  ㉑	Screw M4X12  ㉒	
Screw M4X16  ㉓	Screw 3MX6  ㉔	QC Pass  ㉕	Dual Printheads Plate  ㉖	Quad Printheads Plate  ㉗

## Components Reference(Printhead Box)

☞ The number of available components depends on the printer model. Please refer to the specific packing list.

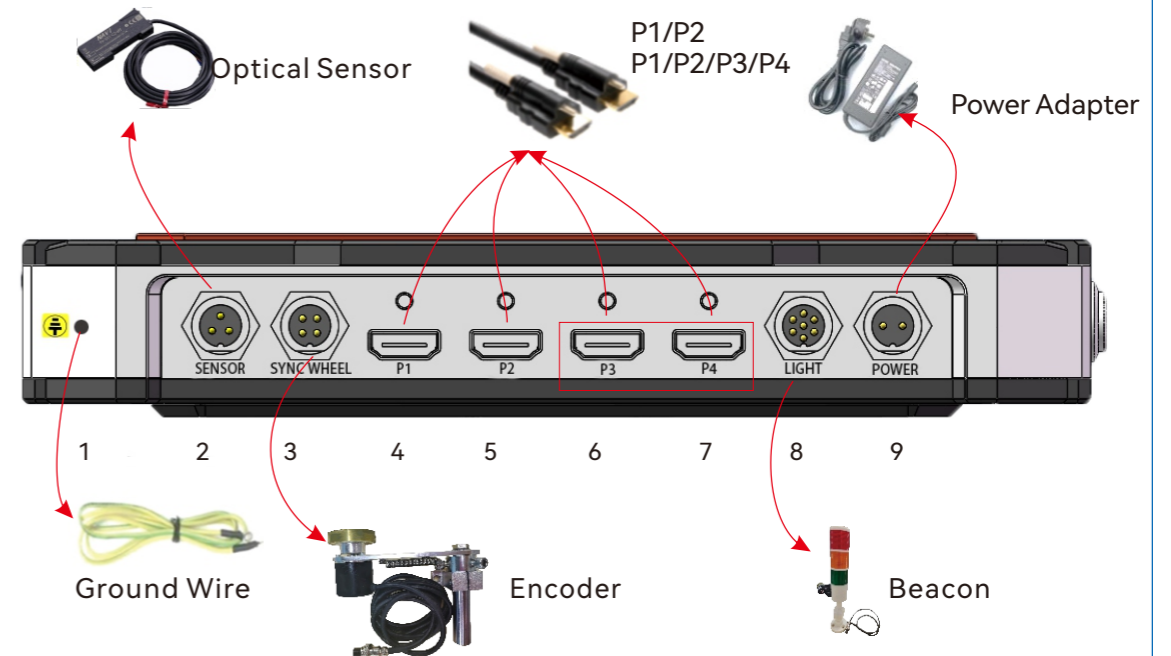
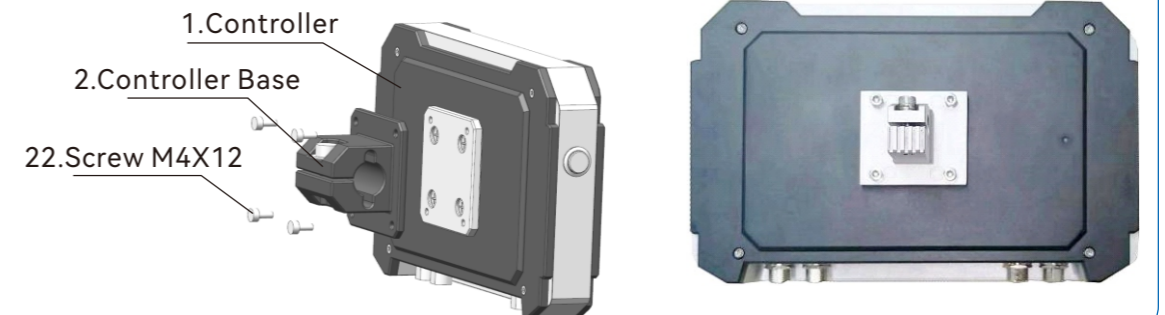


## Optional Components Reference



## Controller Assembling

### Controller



- |                       |                          |
|-----------------------|--------------------------|
| 1—Ground Wire Port    | 4/5/6/7—P1/P2/P3/P4 Port |
| 2—Optical Sensor Port | 8—Beacon Port            |
| 3—Encoder Port        | 9—Power Adapter Port     |

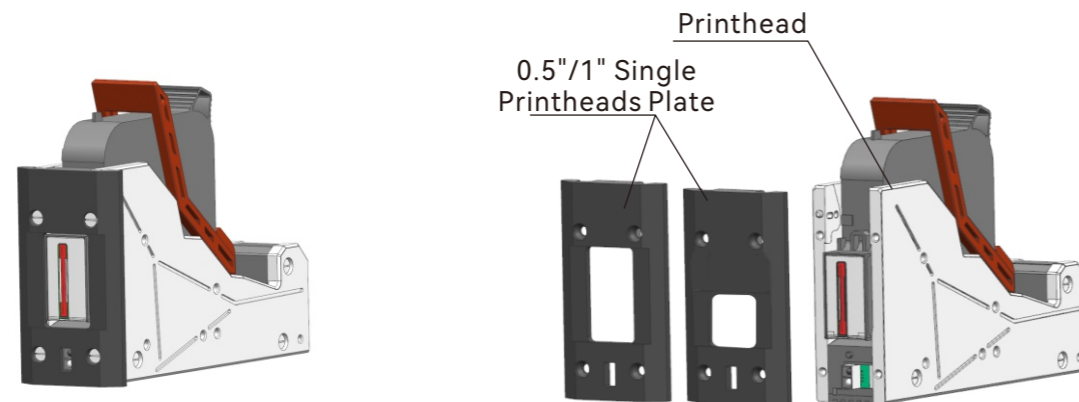
☞ The number of available printhead ports is subject to the printer models.

☞ **Connect the printhead cables:** Attach the cables to the controller and printheads by matching the numbers (P1, P2, P3, P4). Secure them with screws.

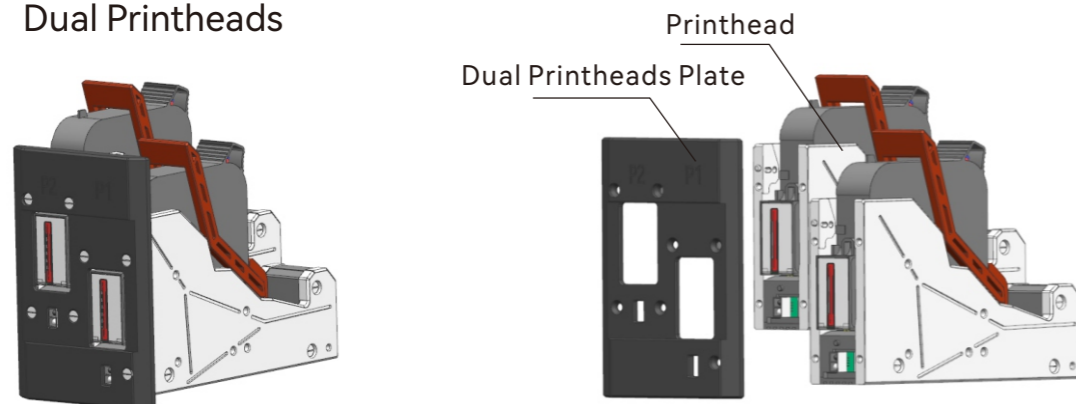
☞ **Connect other components:** Attach the external sensor, power adapter (optional encoder and beacon) to their matching ports on the controller.

## Printhead Assembling

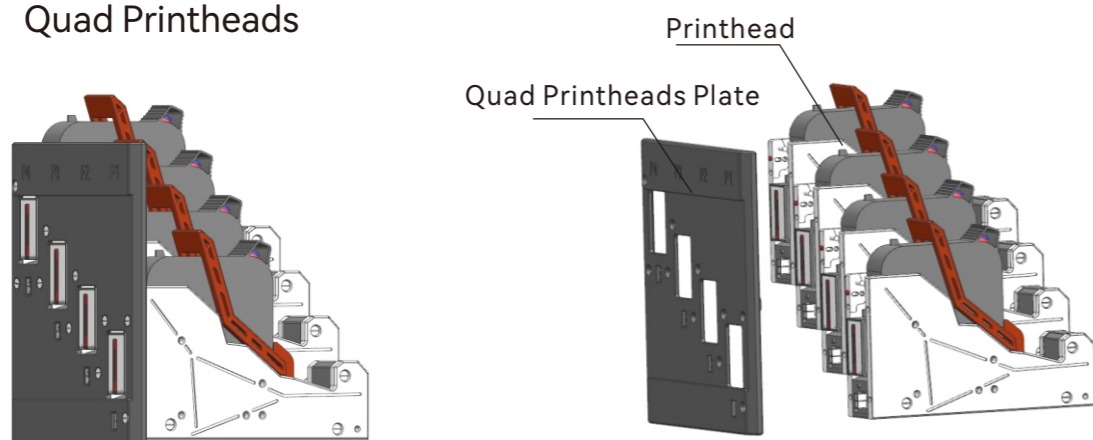
### Single Printhead



### Dual Printheads



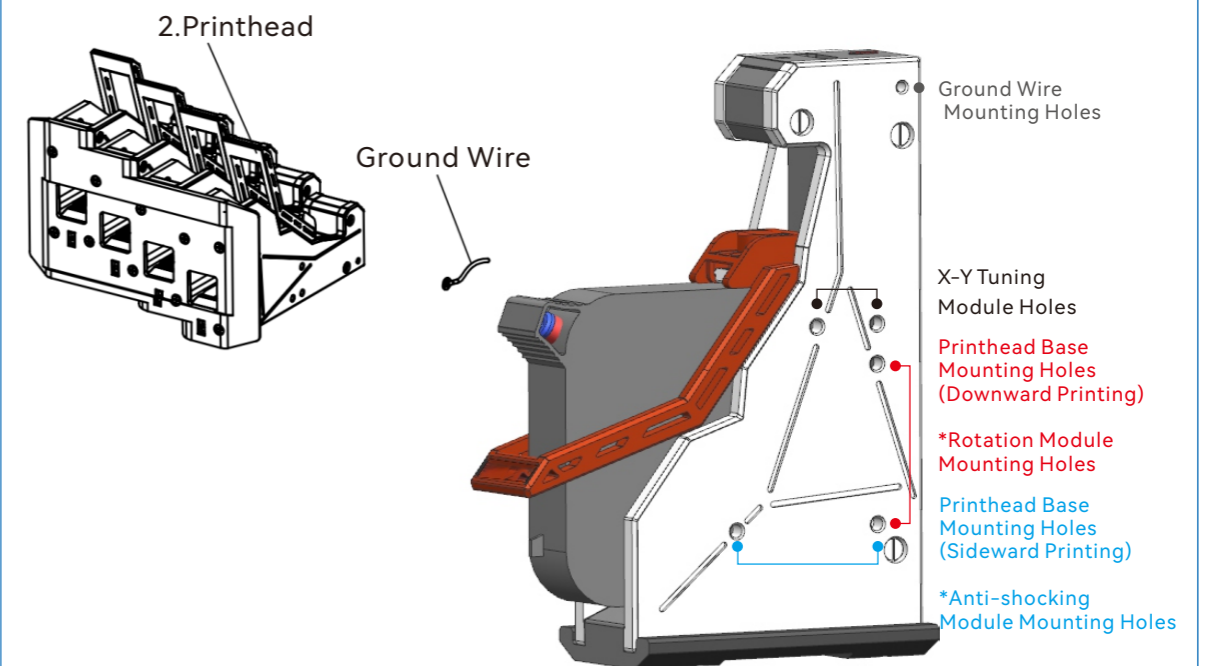
### Quad Printheads



👉 The Printheads Plate are marked with the number P1/P2/P3/P4 respectively. Assemble them accordingly.

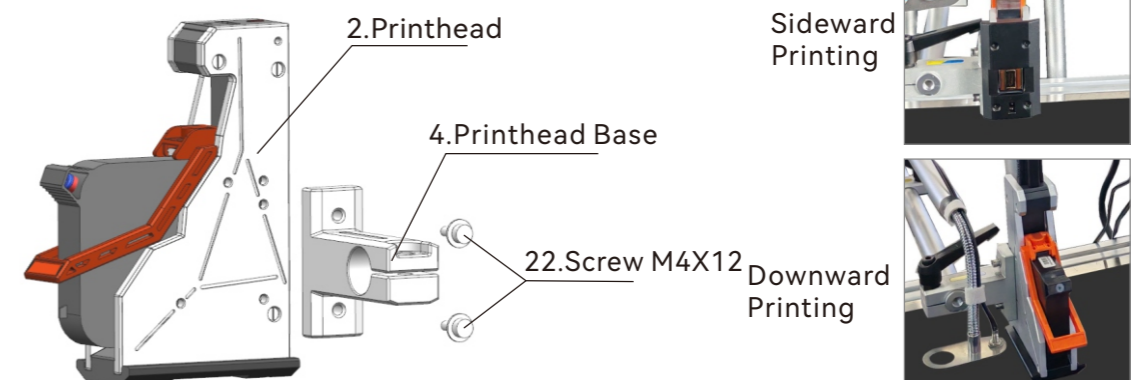
## Printhead Assembling

### Mounting Holes on Printheads



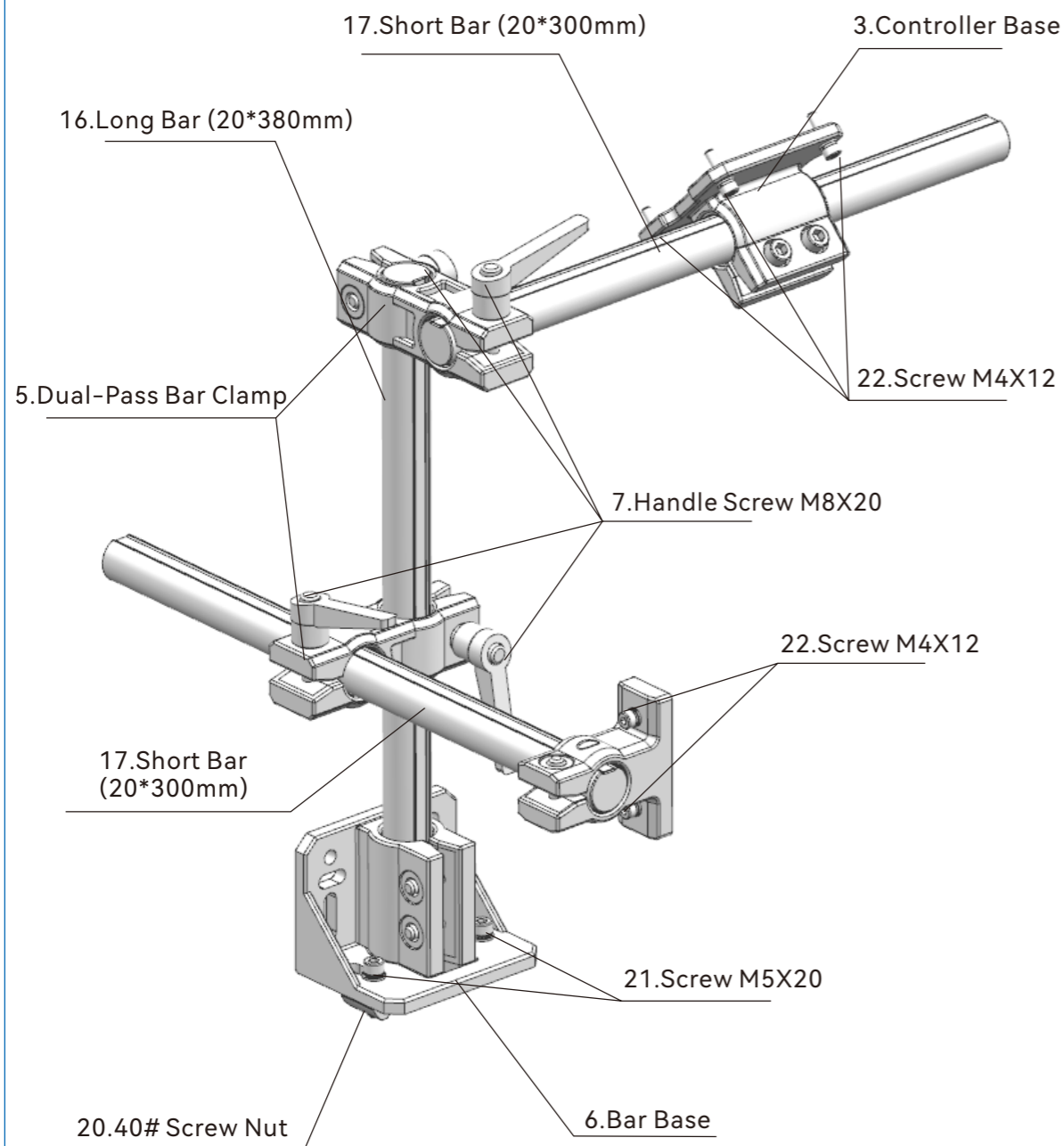
👉 When the rotation module is needed for installation, first attach the printhead base to the rotation module.  
 When the anti-shocking module is needed for installation, first attach the printhead base to the anti-shocking module.

### Printhead Base Assembling

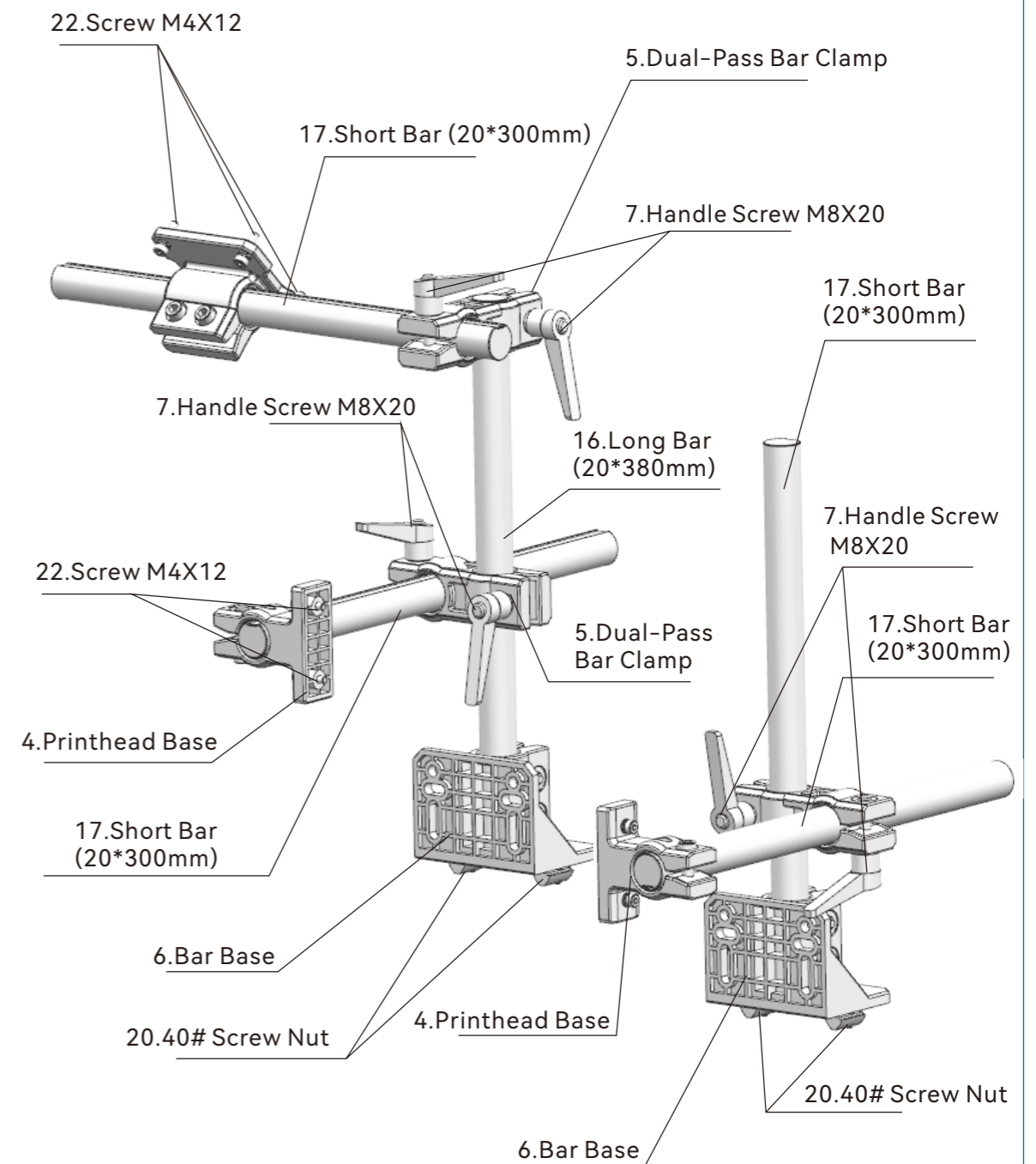


👉 When installing the printhead(s), downward and sideward are optional based on your actual needs.

## Sideward Printing Bracket Assembly Reference ( Single Printhead)

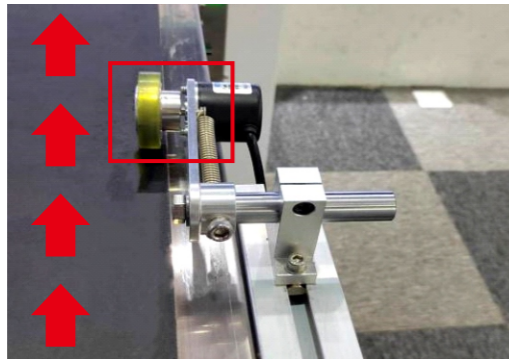


## Sideward Printing Bracket Assembly Reference ( Multiple Printheads, Seperated)



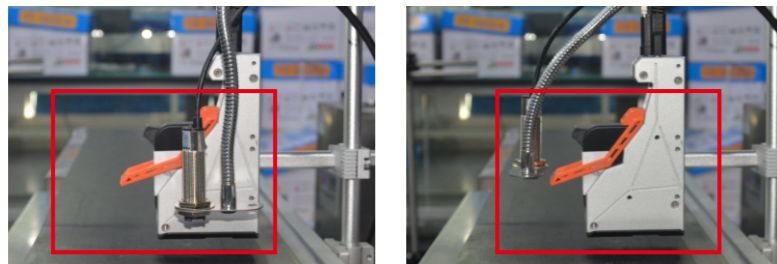
## Encoder/External Sensor Assembling Reference

### Encoder Assembling



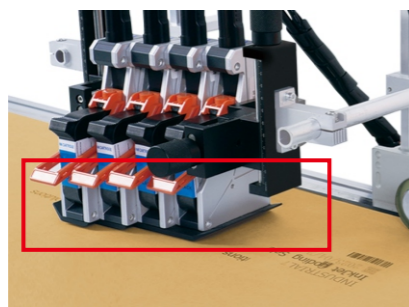
The encoder wheel should be in close contact with the conveyor belt.

### External Sensor Assembling



The distance between the sensor and print object should be between 10mm and 200mm.

### Printhead Assembling



The required distance between print head Nozzles to print objects( Ink throw distance) is 2-5mm.

## Printer Assembling Reference

### Downward Printing (Single Printhead)



### Sideward Printing (Single Printhead)



## Printer Assembling Reference

Downward Printing  
(Dual Printheads)



Sideward Printing  
(Dual Printheads-Separated)



Sideward Printing  
(Dual Printheads)

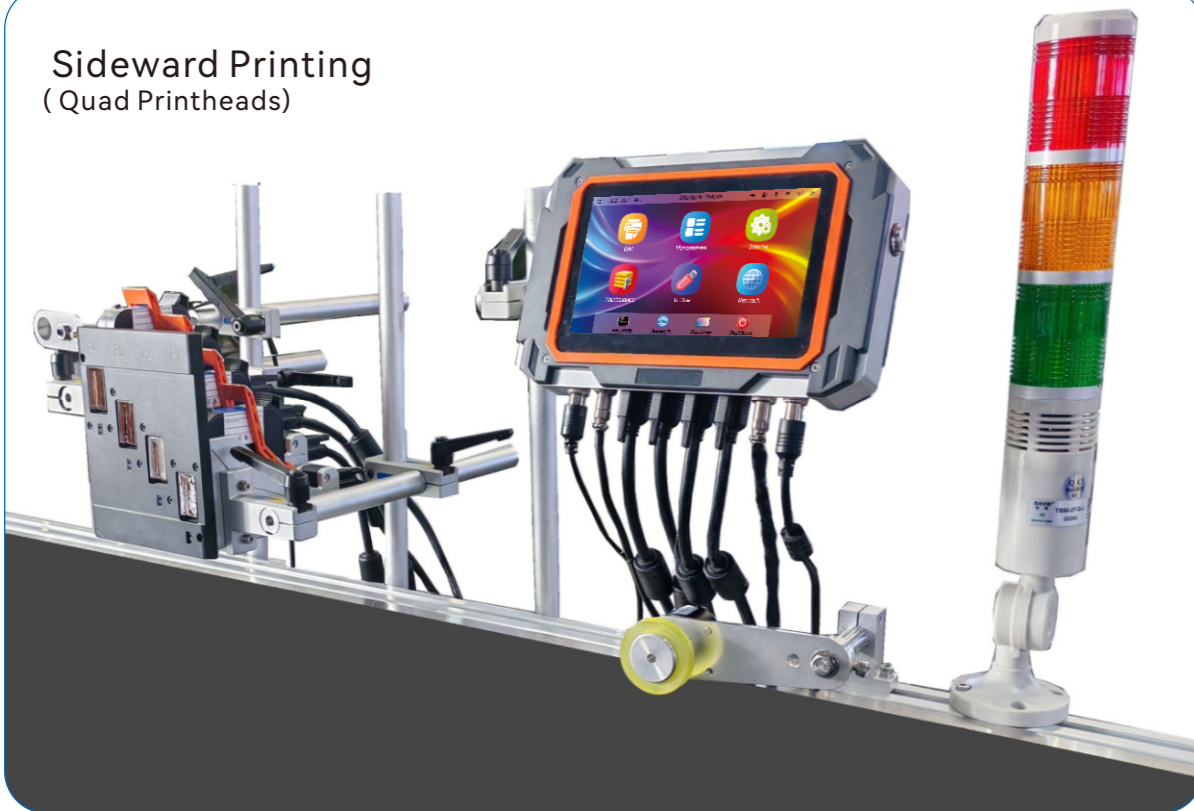


Downward Printing  
(Quad Printheads)



## Printer Assembling Reference

Sideward Printing  
(Quad Printheads)



### Important

1. Do not plug or unplug the connection cable while the printer is powered on.
2. To ensure the best printing results, we recommend using original ink cartridges and accessories.

Using non-original ink cartridges and accessories may cause printer malfunctions and poor print quality, which are not covered under warranty.

3. Equipment failures caused by not following this manual are not covered under the product warranty.

### Safety Instructions

1. After powering on the printer, there is high voltage inside. Do not perform maintenance or disassembly unless you are professionally trained and authorized, to avoid accidents.
2. Do not store ink cartridges in direct sunlight or at high temperatures (above 35°C), as this will affect the print quality and shelf life of the ink.
3. If ink accidentally splashes into your eyes or onto your skin, rinse immediately with clean water and seek medical advice promptly.

## Quick Guide on Printing Settings

### ● Print with Internal Sensor

On the main interface, click "Edit," then "Settings," and select "Print Settings" from the drop-down menu.

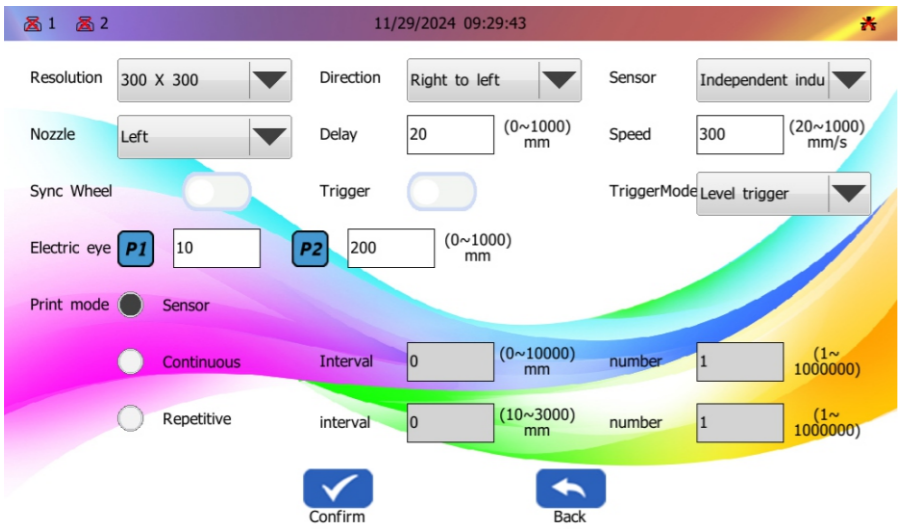
- ☞ Select the Internal sensor.
- ☞ Disable the sync wheel If no external encoder is installed.
- ☞ Set the print delay distance and conveyor speed.

### ● Print with External Sensor

- ☞ Select external sensor if you are not using the built-in internal sensor.
- ☞ Disable the sync wheel If no external encoder is installed.
- ☞ Set the print delay distance and conveyor speed.

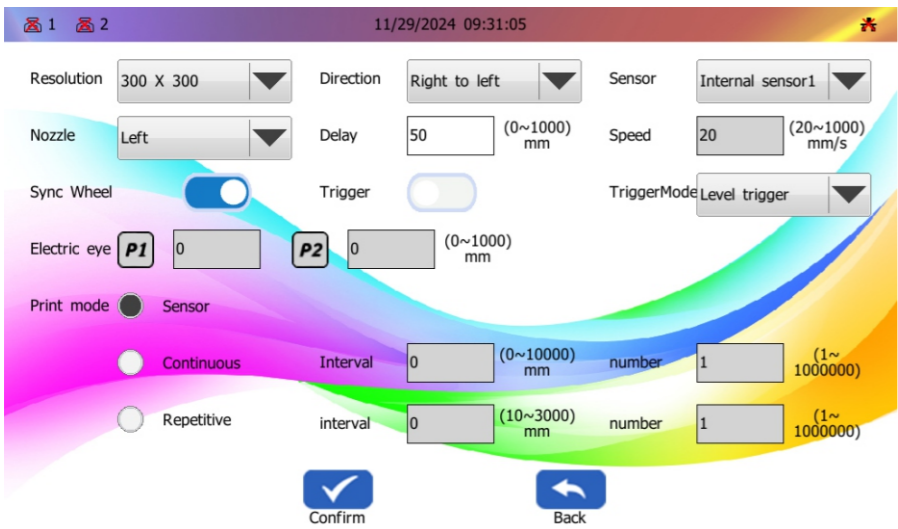
● **Print with Independent Delay**

When using two or more printheads, you can enable the independent delay function.



- ☞ Select "Independent Induction."
- ☞ Set the delay distance for each printhead under the electric eye option.

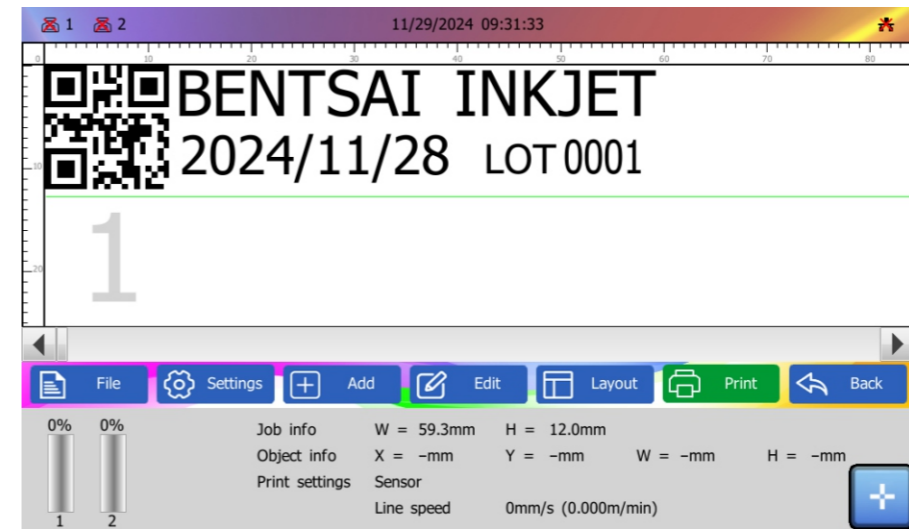
● **Print with External Encoder**



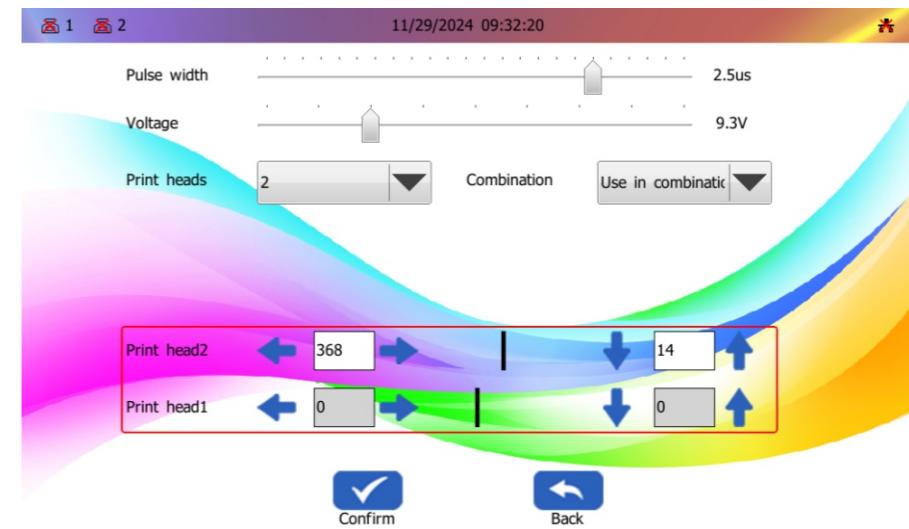
- ☞ When the conveyor speed is not constant, you can install an external encoder to synchronize the conveyor speed. Please enable the Sync Wheel on this page.
- ☞ The external encoder (sync wheel) can be used in conjunction with the internal sensor, external sensor, or independent induction mode.

➡ **Create Print Messages**

On the main interface, click "Edit," then click "Add" to add text, date, counter, image, QR code, dynamic data, etc.



➡ **Set Cartridge Parameters**



- On the main interface, click "Edit," then "Settings," and select "Ink Settings" from the drop-down menu.
- ☞ When using Bentsai original cartridges, the printer can automatically detect and set the pulse width and voltage parameters once inserted.
  - ☞ When using two or more printheads, you can choose between individual printing or stitched printing. For stitched printing, test the print first. If misalignments occur, adjust the stitching parameters on this interface.

☞ If you're still experiencing issues with installing or setting up our printer, please refer to our detailed User Manual or contact your seller.