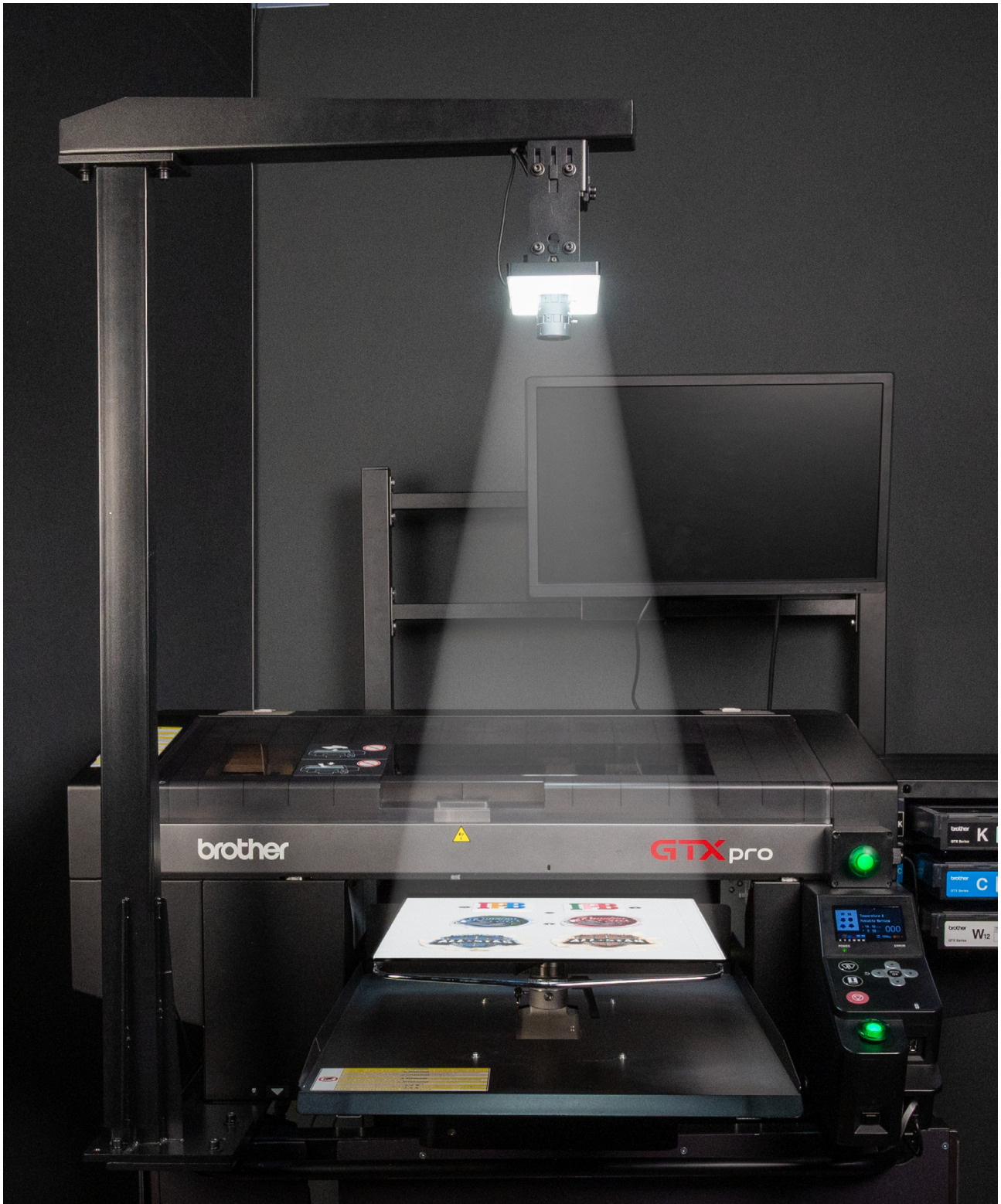


# DTE2000 Series Installation Manual



Please read carefully before installation and using this product.

This DTE system should only be installed by a trained and authorized technician. Keep this manual in a safe place for future use. When assembling the product, be sure to wear work gloves during installation.

|          |   |    |
|----------|---|----|
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| 1.2      | Notes on safety .....   | 4  |
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# 1 Safety instructions







Thank you very much for purchasing a Camera System. Before using your new Camera System, please read the "Safety Instructions" and the handling instructions carefully. Please keep this manual within easy reach for quick reference. For setup instructions, please contact your dealer.

This instruction manual and the indications and symbols that are used on the Camera System itself are provided in order to ensure safe operation of this Camera System and to **prevent accidents and injury to yourself or other people.**

The meanings of these indications and symbols are given below.

## 1.1 Safety indications and their meanings























| INDICATIONS   |                  |  |
|---|------------------|--|
|    | <b>Danger</b>    | The instructions which follow this term indicate situations where failure to follow the instructions <b>will result in death or serious injury.</b>  |
|    | <b>Warning</b>   | The instructions which follow this term indicate situations where failure to follow the instructions <b>could result in death or serious injury.</b> |
|    | <b>Caution</b>   | The instructions which follow this term indicate situations where failure to follow the instructions <b>may result in minor or moderate injury.</b>  |
|   | <b>Important</b> | The instructions which follow this term indicate situations where failure to follow the instructions <b>may result in damage to property.</b>        |
|  | <b>Note</b>      | The instructions which follow this term <b>indicate precautions and restrictions for use.</b>  |

| SYMBOLS   |   |   |  |
|---|---|---|--|
|  | This symbol indicates something that <b>you should be careful of.</b> The picture inside the triangle indicates the nature of the caution that must be taken. |  | For example, the symbol at left means "beware of injury".                  |
|  | The symbol indicates something <b>you must not do.</b>  |  | The example on the left shows that you must not modify the machine.        |
|  | The symbol indicates something that <b>you must do.</b> The picture inside the circle indicates the nature of the thing that must be done.                    |  | For example, the symbol at left means "you must make a ground connection". |

## 1.2 Notes on safety





**WARNING**

## BASIC PRECAUTIONS

|   |  |
|---|--|
|    | <p>This Camera System should only be used by operators who are appropriately trained in its safe operation.</p> <p>The Camera System is not suitable for use in places where children are present.</p>   |
|     | <p>To prevent accidents and malfunction, do not modify the machine yourself.</p> <p>Our Company will not be held responsible for any accidents or malfunction resulting from modifications made to the Camera System.</p>  |
|          | <p>If a foreign object gets inside the Camera System, immediately turn off the power, disconnect the power plug, and contact your dealer or a qualified technician.</p> <p>If you continue to use the Camera System while there is a foreign object inside, it may result in fire or electric shocks or malfunction.</p> <p>Make sure to insert the AC adapter all the way to the base. Otherwise, it may cause fire or electric shocks or malfunction.</p>  |
|          | <p>Do not allow the Camera System to come into contact with liquids.</p> <p>Otherwise, it may cause fire or electric shocks or malfunction.</p> <p>Do not spill beverages, water, or other liquids on the AC adapter. Also, do not use it in places where there is a risk of water or other liquids getting on it. Otherwise, it may cause fire or electric shocks.</p>  |
|    | <p>Do not use the Camera System when smoke or a bad odor is coming from the Camera System. Otherwise, it may cause fire or electric shocks or malfunction. Immediately turn off the power, disconnect the power plug, and contact your dealer or a qualified technician.</p> <p>Do not use any AC adapter other than the one specifically designed for the product. Otherwise, it may cause fire or electric shocks or malfunction.</p> <p>When unplugging the power plug from the outlet, do not pull the cord. Otherwise, it may cause fire or electric shocks.</p> <p>Keep the AC adapter away from open flames and heat-generating equipment.</p> <p>If the coating of the AC adapter melts, it may cause fire or electric shocks.</p> |
|     | <p>Do not handle the AC adapter or power plug with wet hands. Otherwise, it may cause electric shocks.</p>   |
|     | <p>If the power plug is dirty with dust or other debris, unplug the AC adapter from the outlet and wipe it clean with a dry cloth. Using it while dirty may cause fire.</p>  |
|     | <p>Incorrect handling of the AC adapter may cause fire or electric shock.</p> <p>Follow the instructions specified below:</p> <p><b>Do not damage it. • Do not place objects on it. • Do not modify it. • Do not heat it. • Do not twist it. • Do not bundle it. • Do not bend it forcibly. • Do not pinch it. • Do not pull it.</b></p>   |
|    | <p>Do not wrap or bend the AC adapter cable around the AC adapter.</p> <p>This may result in damage, electric shock or fire during use.</p>  |
|    | <p>Do not use the AC adapter if it is damaged. Otherwise, it may cause fire or electric shocks. Purchase a new AC adapter from your dealer.</p> <p>Contact your dealer or a qualified technician.</p> <p>Do not look directly into the LED light.</p>  |
|     | <p>When cleaning or performing maintenance on the product, unplug the AC adapter from the outlet. Failure to do so may cause electric shock.</p>   |





## ! WARNING

### BASIC PRECAUTIONS



|  | If you will not be using the Camera System for an extended period, unplug the AC adapter and the main unit from the outlet and store them safely.            |
|---|--|
| INSTALLATION  |  |
|  | Do not set up the Camera System in a dusty environment. If dust collects inside the Camera System, it may cause fire or electric shocks or malfunction.      |
|  | Do not bend the cords excessively or fasten them too hard with staples or anything similar to secure cords. Otherwise, it may cause fire or electric shocks. |

## ! CAUTION


### INSTALLATION

|   |  |
|---|--|
|    | Installation and moving of the Camera System should only be carried out by a qualified technician.   |
|    | The stand is heavy. The stand should be held in the proper way when transporting and installing the Camera System. If the stand falls, it may cause injury.  |
|  | When the stand falls down, disconnect the power cord and contact your dealer or a qualified technician. If you continue to use it, it may result in fire or electric shocks or poor printing quality.  |
|  | <p>Do not install the Camera System on unstable bases, as it may fall or tip over and cause injury. When selecting a stand for the printer, be sure to refer to the related printer installation manual. Use a stand with a suitable load capacity and size for the printer plus Camera System.</p> <p>Do not store the Camera System unsecured in unsafe locations, such as on a high shelf or in places with unstable base, as it may fall or tip over and cause injury.</p> <p>Do not connect the power plug until installation is complete. The Camera System may operate if the power is turned on by mistake, which could result in injury.</p> <p>Do not climb onto the Camera System or place heavy objects on it. Otherwise, it may become unbalanced and tip over or fall down and cause injury.</p> |

### BASIC INFORMATION

|   |   |
|---|---|
|  | This Camera System should only be used by operators who are appropriately trained in its safe operation.        |
|  | When malfunction occurs with the operation of the Camera System, contact your dealer or a qualified technician. |

### MAINTENANCE

|   |   |
|---|---|
|  | <p>When replacing parts and installing optional accessories, be sure to use only parts by our Company. Our Company will not be held responsible for any accidents or malfunction resulting from the use of non-recommended parts.</p> <p>When replacing parts or installing optional accessories, be sure to follow the procedures described in the Instruction Manual. Incorrect procedures could cause injuries or malfunction.</p> |
|---|---|

**((!)) IMPORTANT**

Ensure there is adequate space left in front of the Camera System and avoid placing any objects.

**((!)) NOTE**

Use the Camera System in an area which is free from sources of strong electrical noise such as electrical line noise or static electric noise. Sources of strong electrical noise may cause malfunction.

Any fluctuations in the power supply voltage should be within  $\pm 10\%$  of the rated voltage for the Camera System.

Voltage fluctuations which are greater than this may cause malfunction.

The power supply capacity should be greater than the requirements for the Camera System's power consumption.

Insufficient power supply capacity may cause malfunction.

In the event of a thunderstorm, turn off the power and disconnect the power plug from the wall outlet. Lightning may cause malfunction.

Install the start button in the recommended location. Refer to the GTX DTE2000 series installation manual. If the button is installed in a different location, it may become entangled with printer components.

**1.3 Electrical and environmental conditions**

|                     |                            |                            |
|---------------------|----------------------------|----------------------------|
| <b>Power supply</b> | 100 ~ 240V                 | 50/60 Hz                   |
|                     | <b>Working environment</b> | <b>Storage environment</b> |
| <b>Temperature</b>  | 10 ~ 40°C                  | -10 ~ 40°C                 |
| <b>Humidity</b>     | 20% ~ 85%                  | 20% ~ 85%                  |

**< DANGER >**

Make sure that your power supply is earth connected.

An incomplete earth connection can lead to electric shock, death or malfunction.



## 2 Installation

**Do not set up** the DTE system in a place with changing light conditions or direct sunlight and where the floor can vibrate often.


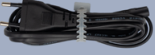







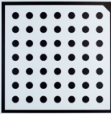

### 2.1 Included items

#### 2.1.1 DTE2030 for GTX300


|                              |   |                               |   |
|------------------------------|---|-------------------------------|---|
| Camera support B 300         |    | Light control box power cable |    |
| Resin block                  |    | AC Power adapter              |    |
| Main column                  |    | 4 x M3 6 mm                   |    |
| Bracket                      |    | 4 x M3 12 mm                  |    |
| Camera holder                |   | 2 x M5 12 mm                  |   |
| Camera adapter               |  | 2 x M8 25 mm                  |  |
| Camera light                 |  | 2 x M6 16 mm                  |  |
| Camera light extension cable |  | 4 x M8 45 mm                  |  |
| Camera                       |  | Head nut for the adjuster     |  |
| Start button                 |  | Adjuster                      |  |
| Light control box            |  | Cable tie and protector       |  |
| Camera connection cable      |  | Calibration board             |  |
| Light control cable          |  | Acrylic plate                 |  |

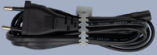






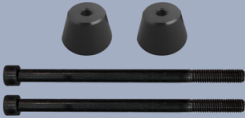

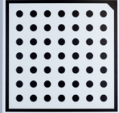

### 2.1.2 DTE2040 for GTXpro / GTXpro Bulk

|                              |   |
|------------------------------|---|
| Camera support B pro         |    |
| Main column                  |    |
| Bracket                      |    |
| Camera holder                |    |
| Camera adapter               |    |
| Camera light                 |  |
| Camera light extension cable |  |
| Camera                       |  |
| Start button                 |  |
| Light control box            |  |
| Camera connection cable      |  |

|                               |   |
|-------------------------------|---|
| Light control cable           |    |
| Light control box power cable |    |
| AC power adapter              |    |
| 4 x M3 6 mm                   |    |
| 4 x M3 12 mm                  |    |
| 2 x M5 12 mm                  |  |
| 6 x M8 25 mm                  |  |
| 3 x M8 60 mm                  |  |
| Cable tie and protector       |  |
| Calibration board             |  |
| Acrylic plate                 |  |

**2.1.3 DTE2060 for GTX600 NB / GTX600 NBA / GTX600 SB**

|                              |   |
|------------------------------|---|
| Camera support B X6          |    |
| Main column                  |    |
| Bracket                      |    |
| Camera holder                |    |
| Camera adapter               |    |
| Camera light                 |   |
| Camera light extension cable |  |
| Camera                       |  |
| Start button                 |  |
| Light control box            |  |
| Camera connection cable      |  |
| Light control cable          |  |

|                               |   |
|-------------------------------|---|
| Light control box power cable |    |
| AC power adapter              |    |
| 4 x M3 6 mm                   |    |
| 4 x M3 12 mm                  |    |
| 2 x M5 12 mm                  |    |
| 4 x M8 45 mm                  |  |
| 6 x M8 45 mm                  |  |
| 2 x M8 130 mm,<br>2 feet      |  |
| Cable tie and protector       |  |
| Calibration board             |  |
| Acrylic plate                 |  |

## 2.2 Necessary tools

- Wrench: 17 mm
- Allen key:  
2.5 mm, 4 mm, 5 mm and 6 mm
- Spirit level
- Metal measuring tape
- Short hex wrench: 6 mm
- Spanner: 13 mm

## 2.3 Camera mount installation on GTX300



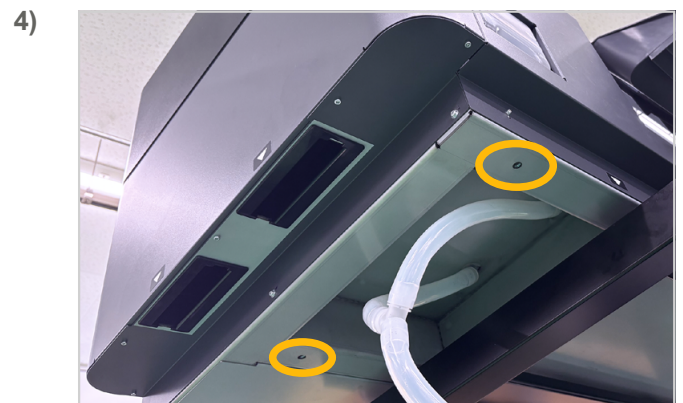
Start the assembly by attaching the camera support B 300 to the bottom left of the printer.



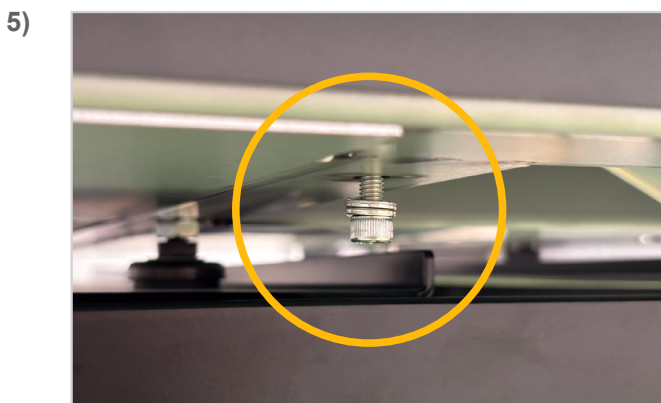
Lift the printer and move it about 20 cm (7.8 inch) to the left on the base. **Make sure the printer remains stable on the stand.**



Take the two screws M6 (16 mm) and washers.



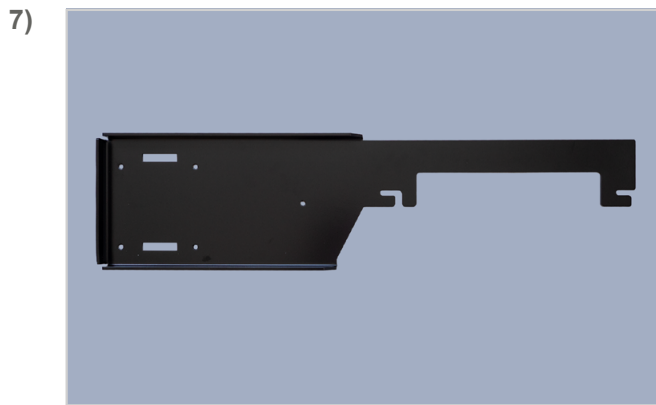
Lightly tighten the screws into the threads on the underside of the printer.



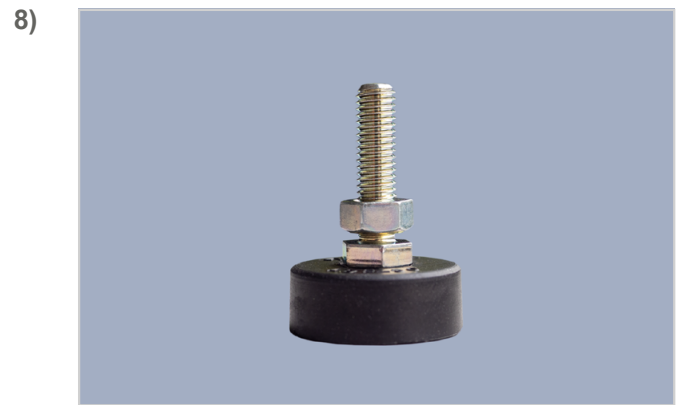
Rear side



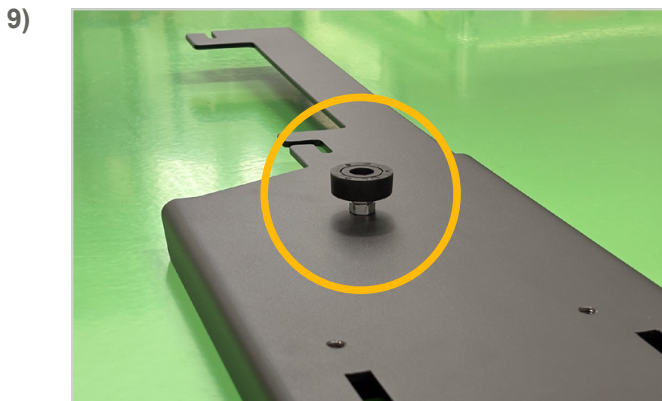
Front side



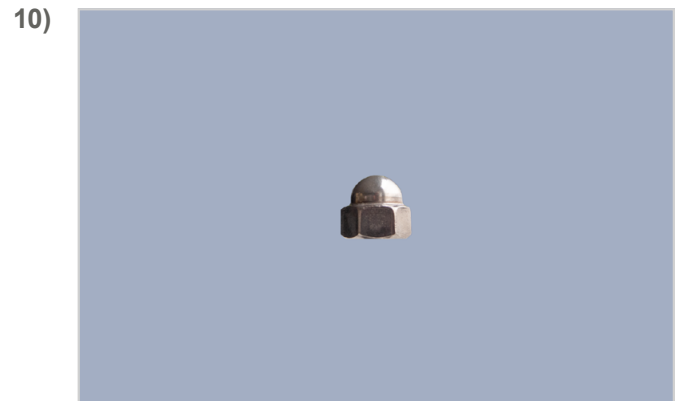
Take the camera support B 300.



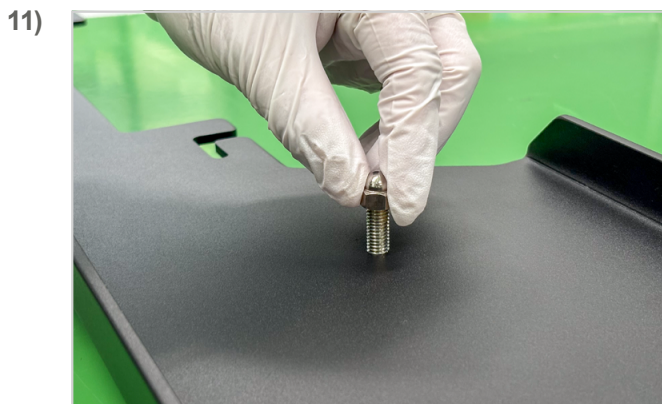
Take the adjuster.



Screw the adjuster all the way into the bottom of the base plate.



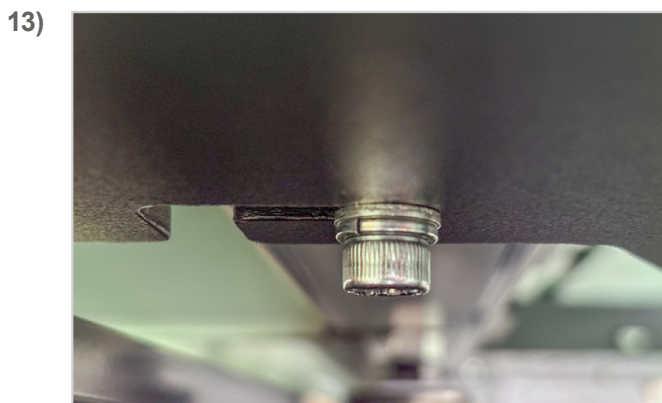
Take the head nut.



Turn the base plate over and attach the head nut to the adjuster bolt.



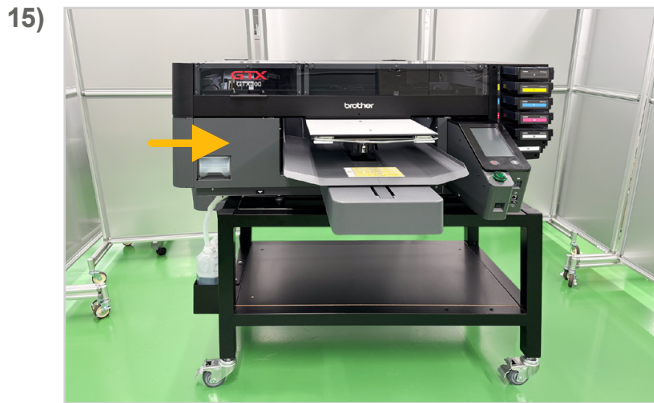
Attach the base plate to the screws



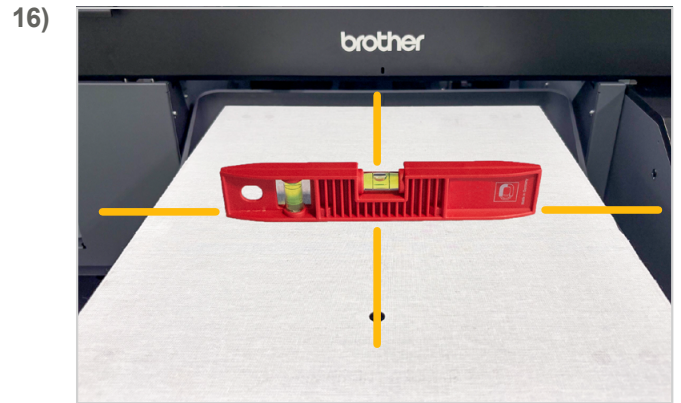
Tighten the screw front side.



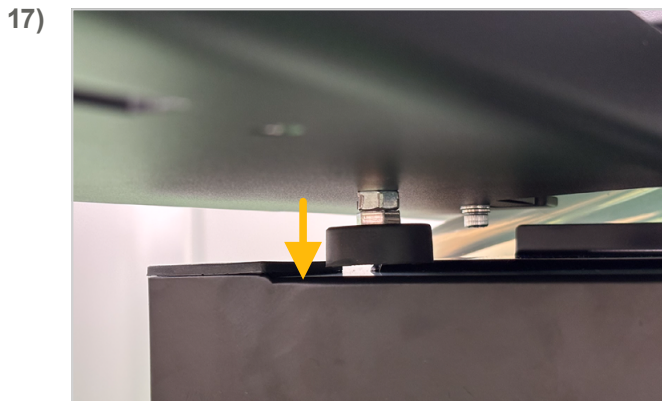
Tighten the rear screw.



Place the the printer back to origin position.



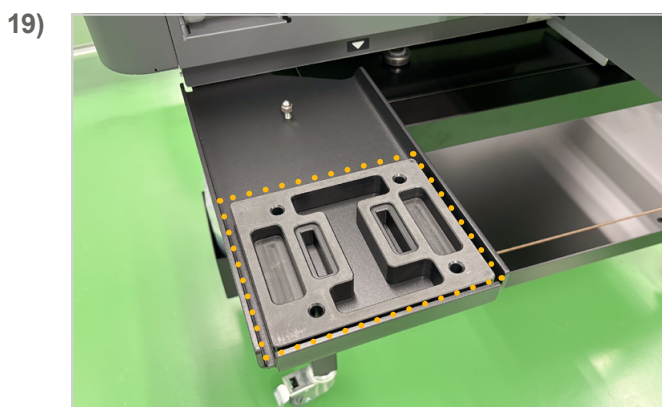
Use the levelling feet to ensure the printer is level.



Screw down the adjuster to stabilize the base plate.



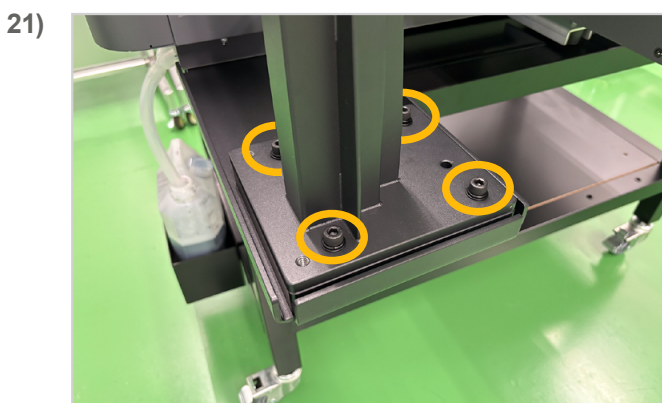
Take the resin block



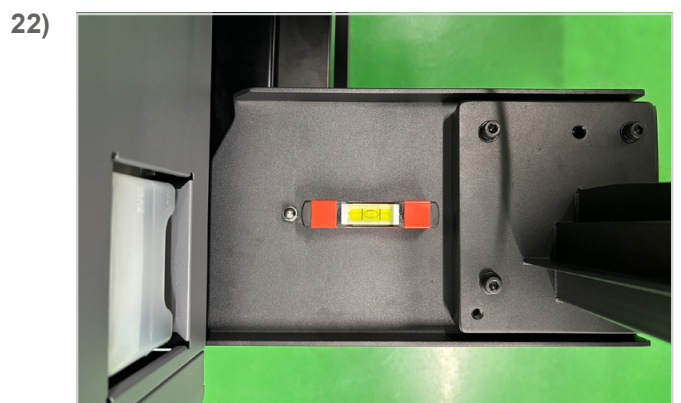
Insert the resin block into the base plate.



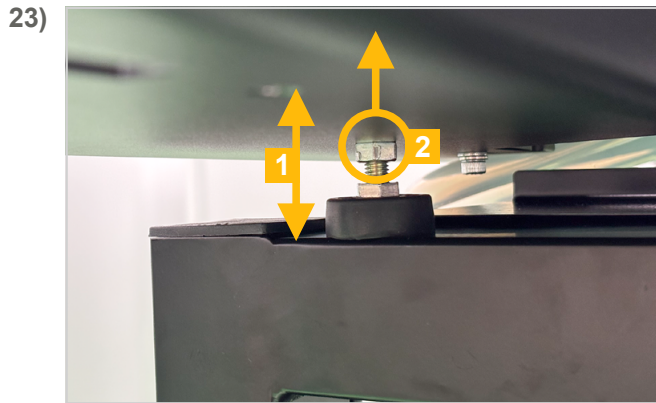
Take the main column.



Insert the main column into the resin block.  
Secure the main column to the base plate using four M8 bolts (45 mm) with washers.



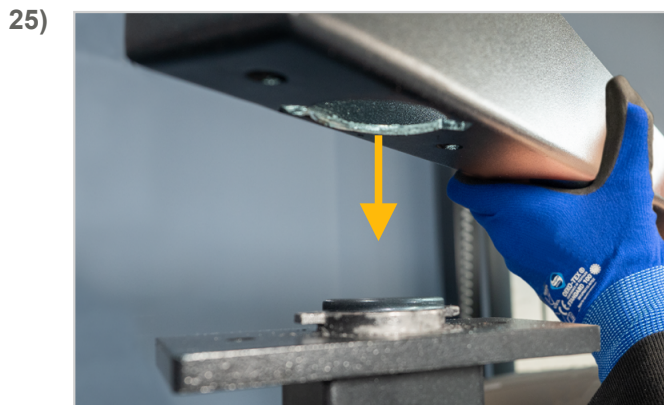
Place a level on the base plate.



1. Use the adjuster to level the base plate.  
2. Screw up the nut to secure the adjuster against the baseplate.



Take the bracket.



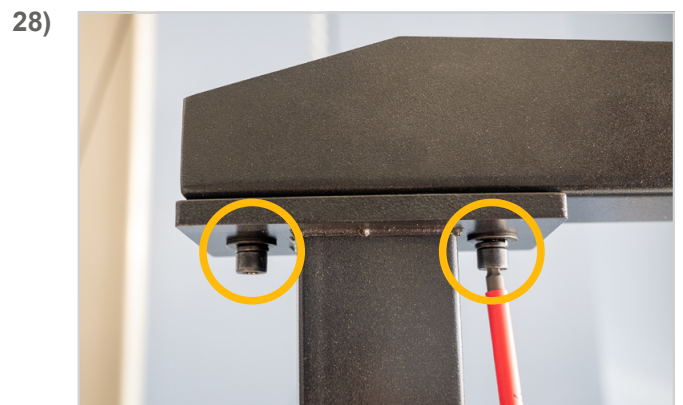
Connect the bracket to the column.



Turn the bracket until the nuts are aligned to the holes on the column.



Take 2 screws M8 (25 mm) with all washers.



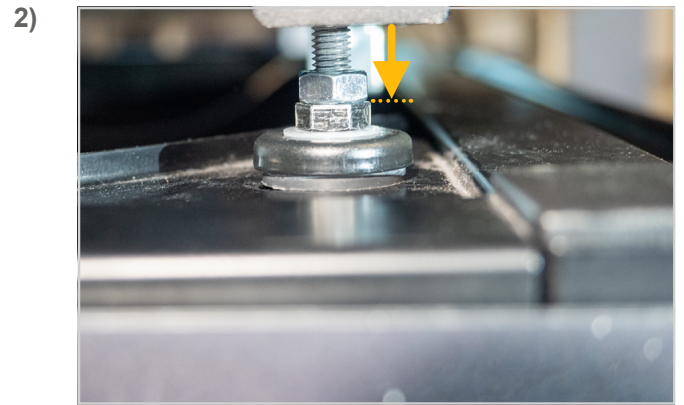
Fasten the bracket with the screws on the column.

To install the camera, please follow the instructions in section 2.6 on page 19.

## 2.4 Camera mount installation on GTXpro / GTXpro Bulk



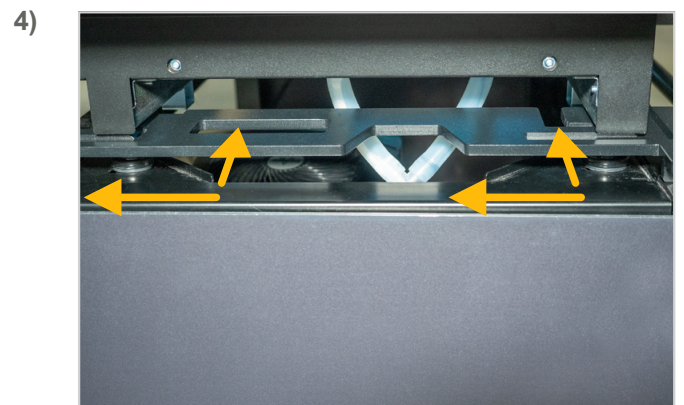
Start on left side of the printer at the leveling feet.



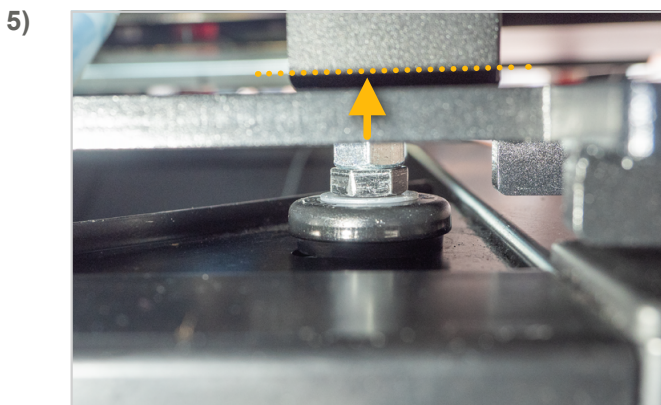
Screw both top nuts down to the bottom nuts.



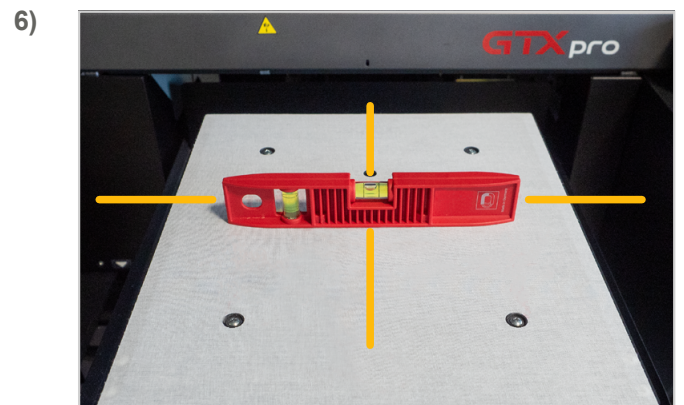
Take the camera support B pro.



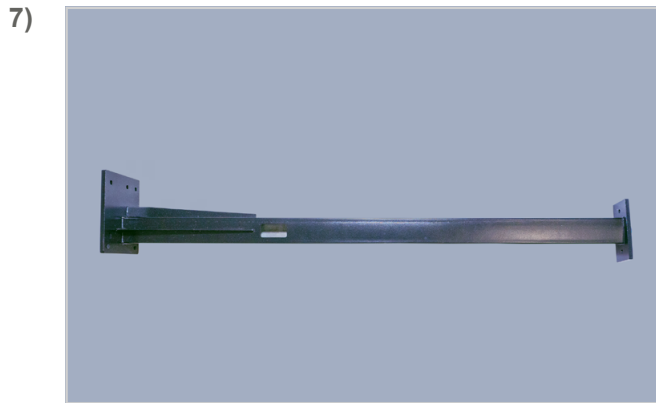
Slide the base plate onto the feet, aligning it with the slots.



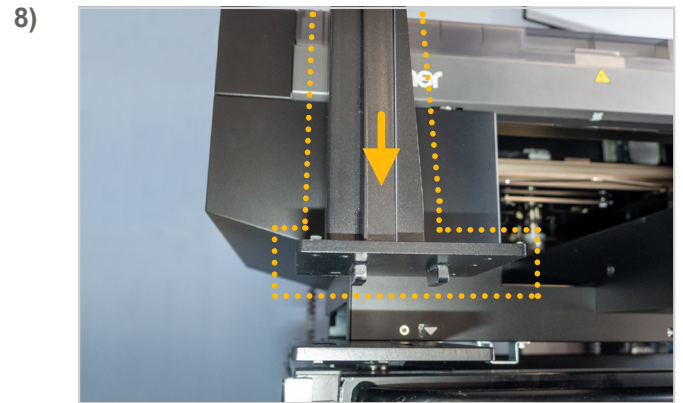
Fasten the plate by screwing up both top nuts.



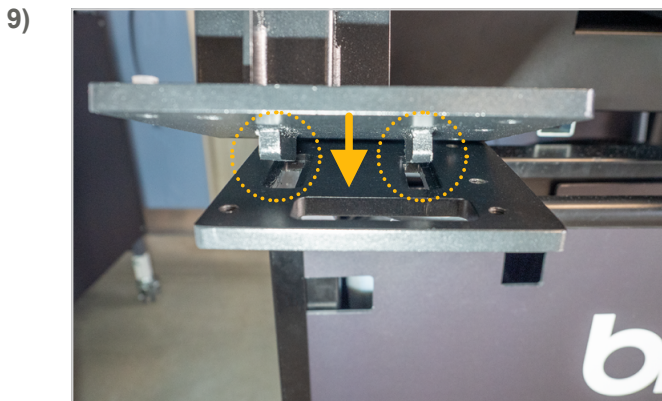
Place a level on the platen and adjust the four feet while checking the level to ensure the main unit is properly leveled.



Take the main column.



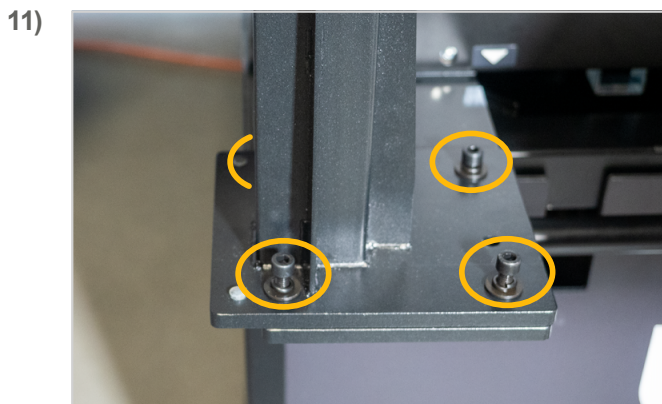
Place the column base on the base plate.



The ribs under the column base must be inserted into the slots of the base plate.



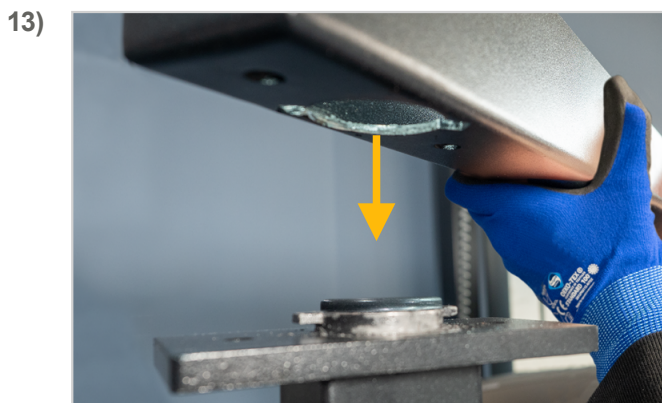
Take 4 screws M8 (25 mm) with all washers.



Fasten the column on the base plate.



Take the bracket.



Connect the bracket to the column.



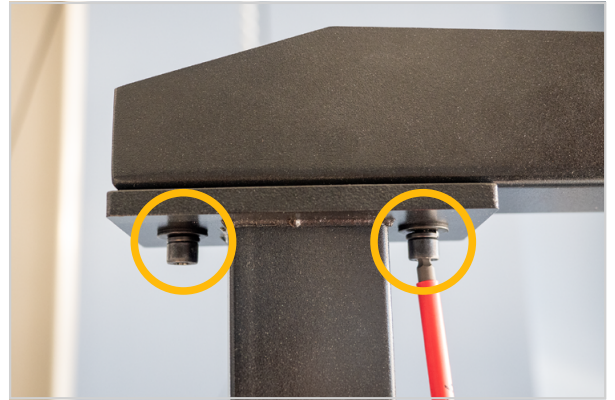
Turn the bracket until the nuts are aligned to the holes on the column.

15)



Take 2 screws M8 (25 mm) with all washers.

16)



Fasten the bracket with the screws on the column.

To install the camera, please follow the instructions in section 2.6 on page 19.

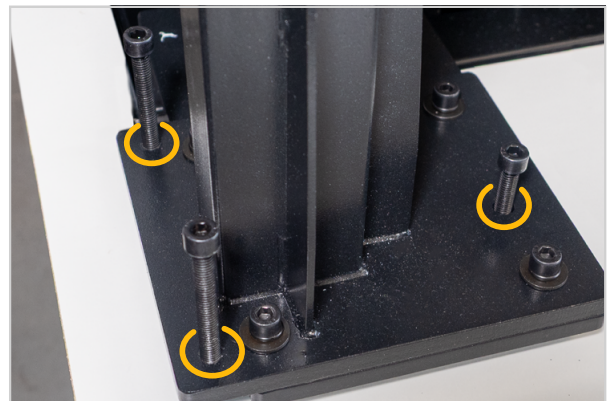
#### 2.4.1 Additional assembly steps when the printer is placed on a table:

1)



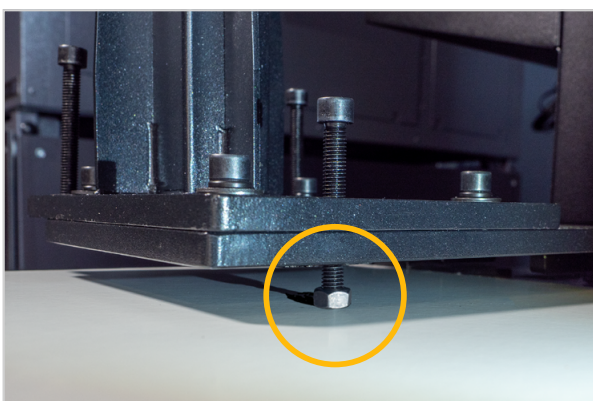
Take 3 screws M8 (60 mm) with the nuts.

2)



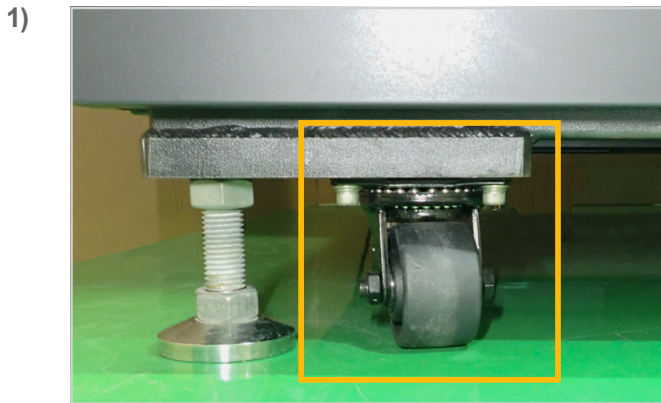
Locations where to put the screws at the column.

3)

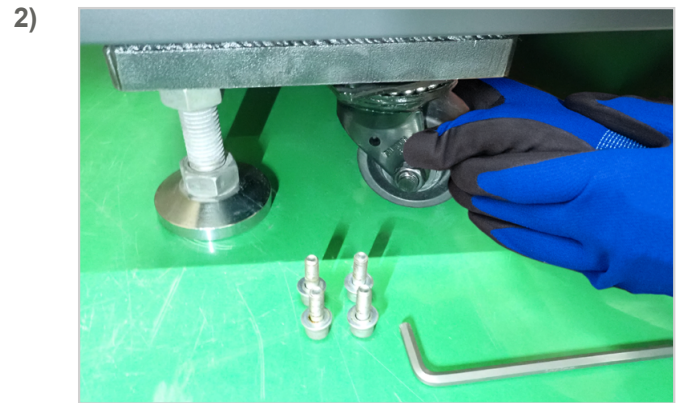


Use the nuts as feet for additional stabilisation.

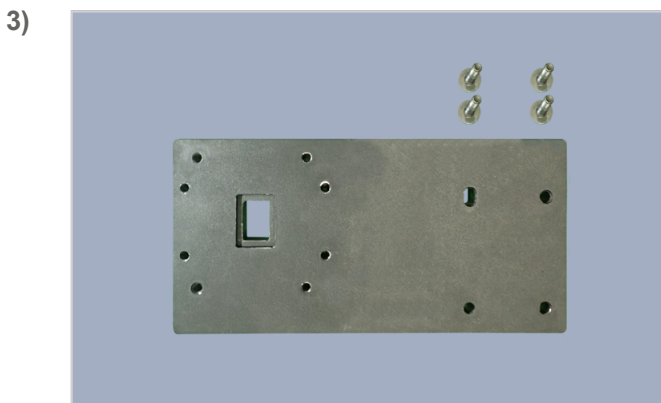
**2.5 Camera mount installation on GTX600 NB / GTX600 NBA / GTX600 SB**



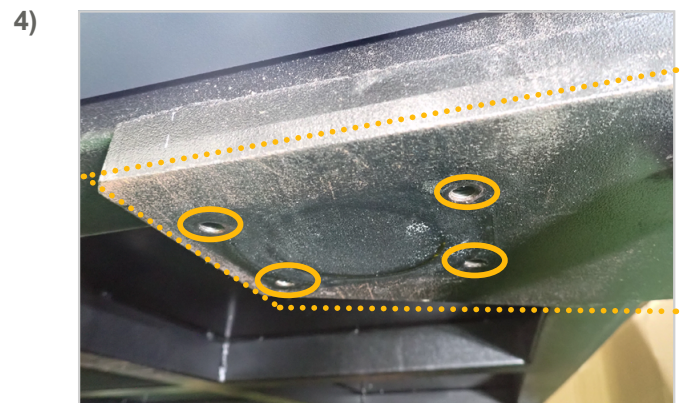
The wheel on front left side has to be removed.



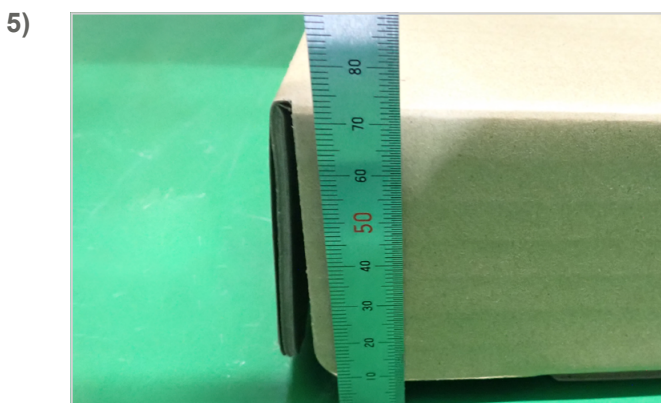
Remove the wheel and store it with the screws.



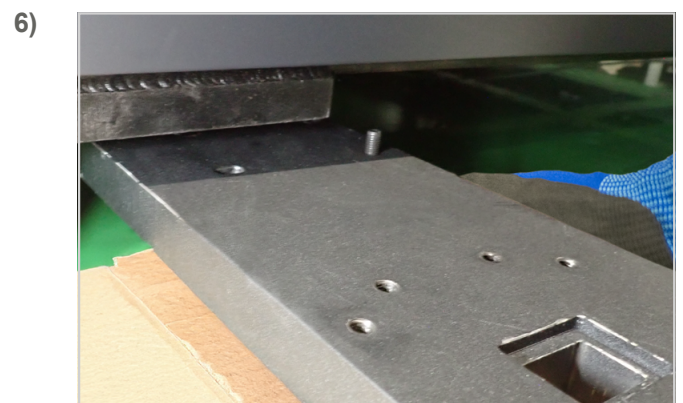
Take the camera support B X6 and 4 screws M8 (45 mm).



The plate has to be fixed in the position of the removed wheel.



A cardboard box that fits underneath the printer is helpful when positioning the base plate.



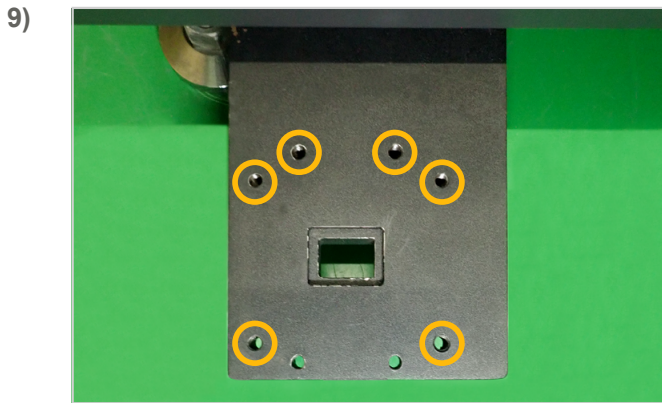
Fix the base plate under the GTX600.



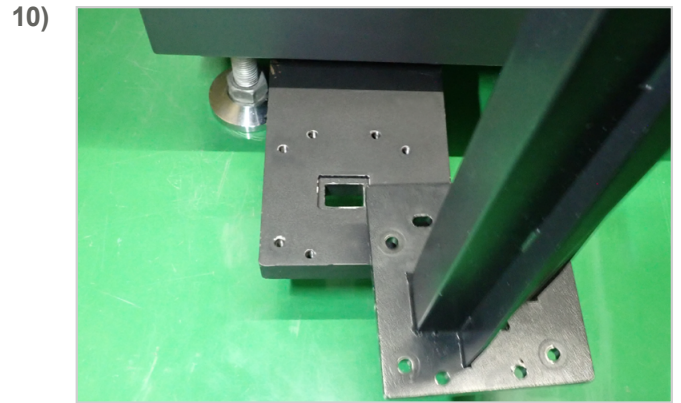
Take the main column.



Take 6 screws M8 (45 mm) with all washers.



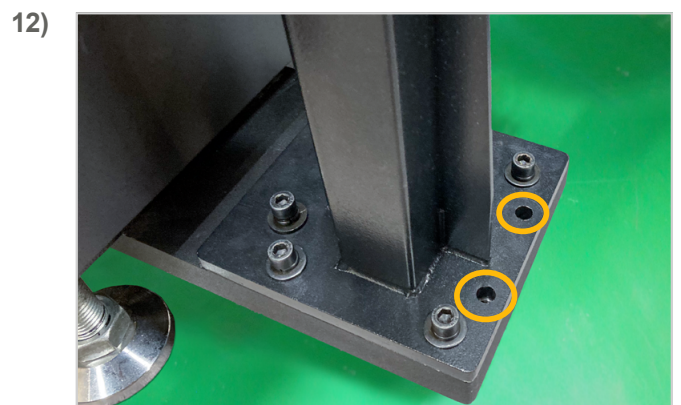
Inner threads at the base plate to be used for fixing the column.



Take the 6 screws M8 (45 mm) with all washers to fix the main column on the base plate.



Take 2 screws M8 (130 mm) and the feet.



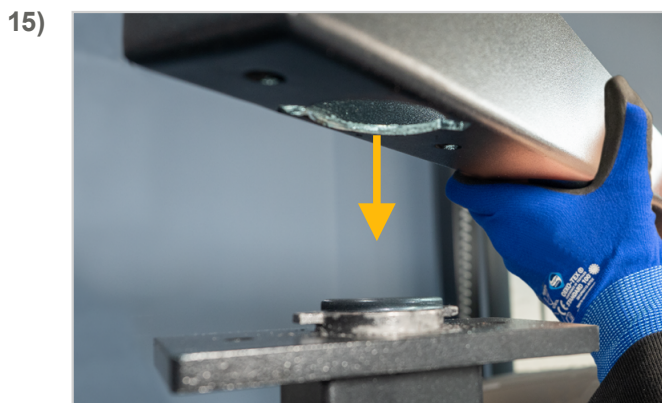
Insert the screws here.



Use the feet for additional stabilisation.



Please take the bracket.



Connect the bracket to the column.



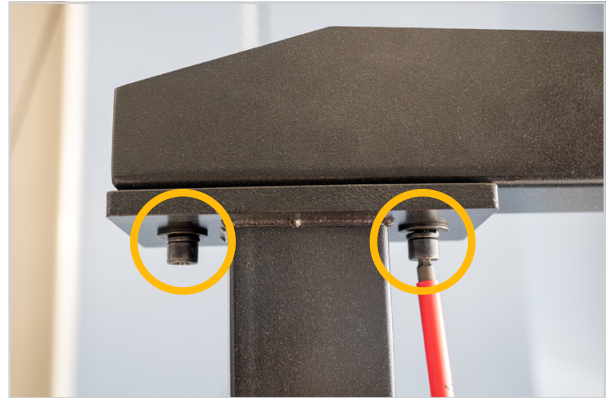
Turn the bracket until the nuts are aligned to the holes on the column.

17)



Take 2 screws M8 (25 mm) with all washers.

18)



Fasten the bracket with the screws on the column.

## 2.6 Camera installation

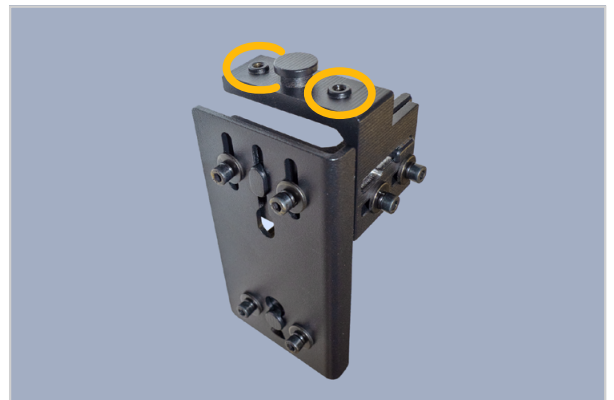
The mounting process for the camera is the same for all DTE2000 models.

1)



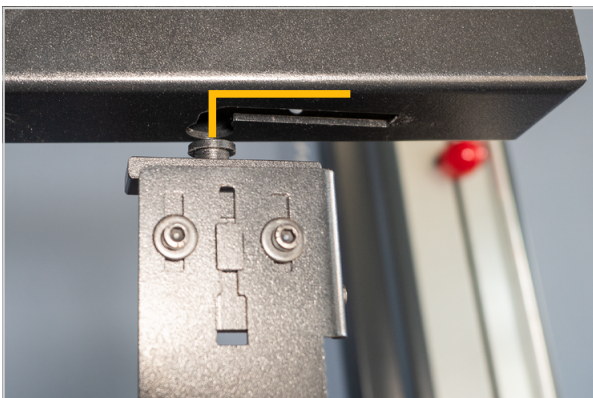
Take the camera holder.

2)



Remove the 2 bolts from the top.

3)

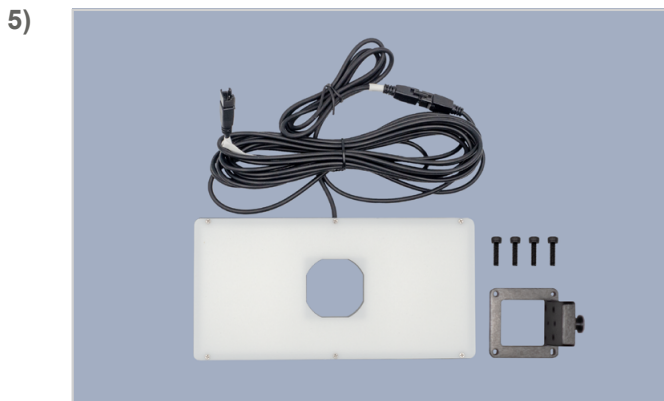


Slide the holder into the slot at the bracket.

4)



Insert the 2 bolts into the camera holder from upside of the boom. Please tighten only hand-tight, as the holder and camera will be adjusted in following steps.



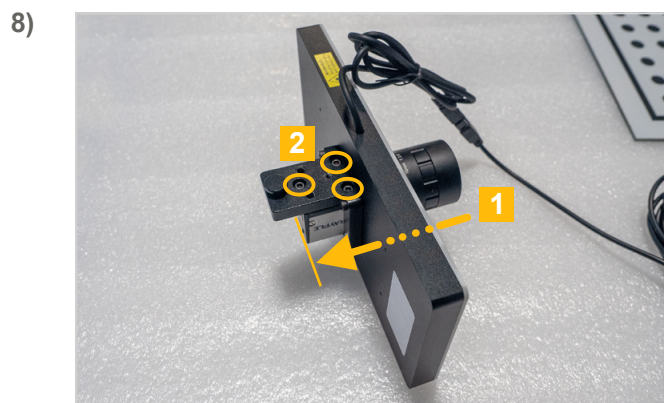
Take the camera light, the extension cable, the camera adapter and 4 screws M3 (12 mm).



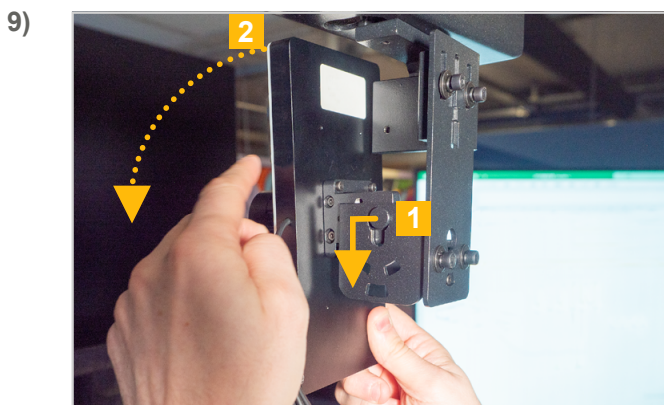
Mount the adapter on the metal side, ensuring it matches with the orientation shown in the photo.



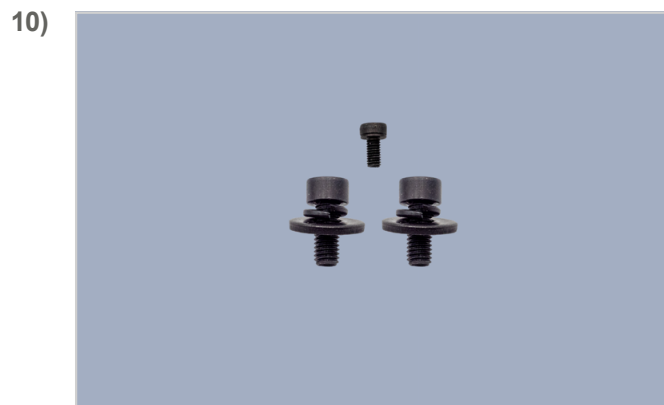
Take the camera and 3 screws M3 (6 mm).  
Do not change the setting of aperture or focus.



1) Slide the camera into the adapter.  
2) Fasten the camera to the adapter.



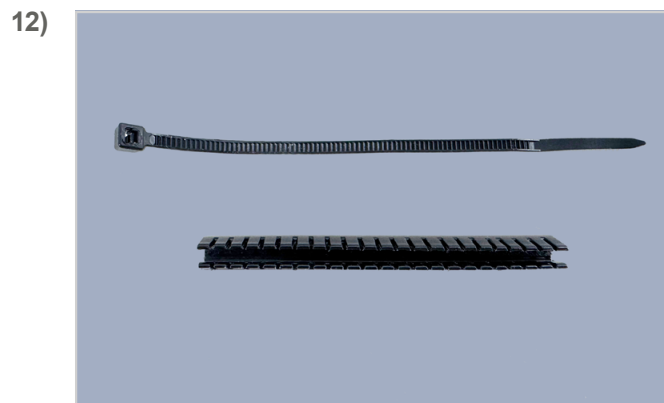
1) Connect the camera to the camera holder.  
2) Rotate the camera to horizontal position.



Take 2 screws M5 (12 mm) with all washers and one screw M3 (6 mm).



Fasten the camera with the screws.



Take the cable protector and the cable tie.



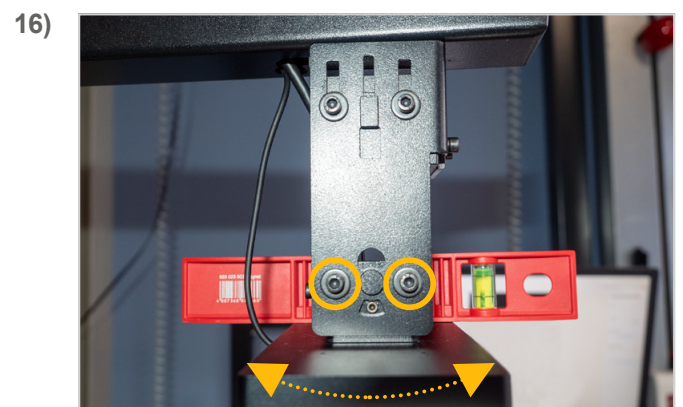
Take the camera data cable.



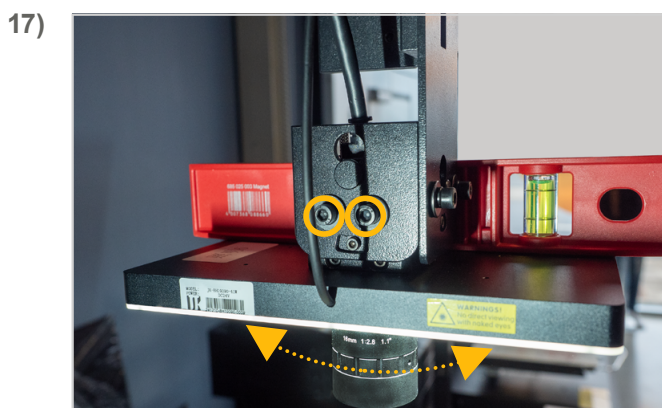
Wire the power cable of the camera light and the data cable through the bracket and the column. Mount the cable protector and fix the cables with the cable tie.



Connect the camera data cable to the camera. Then connect the data cable to your PC.



Level the camera on its short side.



Level the camera on its long side.



Set the printer platen to height B. The distance between lens and platen should be 657 mm. The tolerance is  $\pm 5$ mm.

## 2.7 Start button installation

1)



Take the start button.

### Installation on GTX300



Place the button on top of the panel holder.  
Then connect the cable to your PC.  
Route the cable so that it cannot become entangled with moving parts of the printer.

### Installation on GTXpro / GTXpro Bulk



Place the button on top of the panel holder.  
Then connect the cable to your PC.  
Route the cable so that it cannot become entangled with moving parts of the printer.

### Installation on GTX600 NB / NBA / SB



Place the button on the right side of the right front panel.  
Then connect the cable to your PC.  
Route the cable so that it cannot become entangled with moving parts of the printer.

## 2.8 The light control box

### < CAUTION >

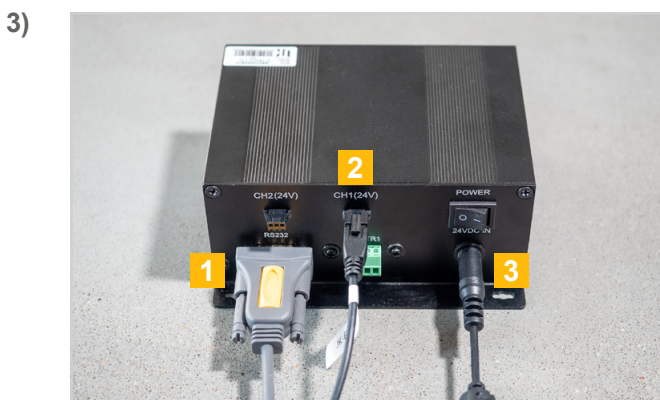
- Do not place the control box or the AC adapter in a hot surrounding.
- Do not touch the control box or the AC adapter with wet hands.  
Do not clean up with any liquids.
- Never place objects on the light control box or on the AC adapter.



Take the light control box.



Take the AC Adapter and the power cord.



- 1) Plug in the data cable of the light control box to the box and then to your PC.
- 2) Plug in the power cable of the camera light.
- 3) Connect the power cable to the control box and then to the power supply.



- 1) For the DTE usage the switch must be set to [LOW] position.
- 2) Brightness adjustment knob:  
When set to [0], press and turn to 1 to enable the light.

- 4) Turn the power [ON].

## 3 Parts lists

### 3.1 Camera and controller

| NAME                           | CODE      |
|--------------------------------|-----------|
| ADAPTER AD9100ESA              | D022K8001 |
| CAMERA UNIT                    | D03C8F001 |
| LIGHT JK-BH19090-41W           | D03C8J001 |
| CALIBRATION BOARD 7.9 X 7.9 IN | D03C8L001 |
| CAMERA CONNECTION CABLE        | D03C8M001 |
| LIGHT EXTENSION CABLE          | D03C8N001 |
| ACRYL PLATE BLACK 14 x 16 IN   | D03C8T001 |
| BUTTON MDD-SW                  | D03C8W001 |
| LIGHT CONTROL BOX              | D03C8X001 |
| LIGHT CONTROL CABLE            | D03CKU001 |

### 3.2 Specifications

| REGION                 | NAME                     | CODE      |
|------------------------|--------------------------|-----------|
| <b>for EU customer</b> | POWER SUPPLY CORD EU     | LN8126001 |
| <b>for JP customer</b> | POWER SUPPLY CORD JP TR  | LB7095001 |
| <b>for US customer</b> | POWER SUPPLY CORD CSA LF | LW2359001 |

Please note that the contents of this manual may differ slightly from the actual product purchased as a result of product improvements.

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This is the original instruction manual.

DTE2000 Series  
2026.05.Z(1)