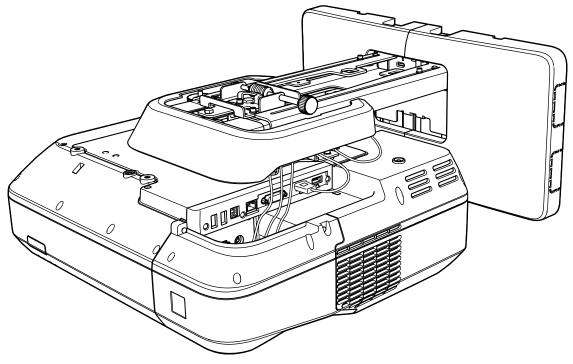# EPSON®
EXCEED YOUR VISION

EB-710Ui
EB-700U

Installation Guide

⬜ Safety Instructions

For your safety, read all the instructions in this guide before using this product. Incorrect handling that ignores instructions in this guide could damage this product or could result in personal injury or property damage. Keep this installation guide at hand for future reference.

Read the *User's Guide* and *Safety Instructions* for your projector and follow the instructions in these documents.

Safety indications

The documentation and this product use graphical symbols to show how to use this product safely.

The indications and their meaning are as follows. Make sure you understand them properly before reading the guide.

Symbol	Explanation
⚠ Warning	This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.
⚠ Caution	This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.

Explanation of Symbols

Symbols	Explanation
⃠	Symbol indicating an action that must not be done
❗	Symbol indicating an action that should be done
📓	Symbol indicating related or useful information

Safety Precautions for Installation

⚠ Warning	
The setting plate is exclusively for mounting the projector on a wall. If anything other than a projector is mounted, the weight may result in damage. If this product falls, it could cause death or personal injury.	❗
The installation work (wall mounting) should be performed by specialists who have technical knowledge and ability. Incomplete or incorrect installation could cause the product to fall and cause personal injury or property damage.	❗
Follow the instructions in this guide when installing this product. If the instructions are not followed, this product may fall, resulting in personal injury or an accident.	❗

Warning	
Handle the power cord carefully. Incorrect handling may cause fire or electric shock. Observe the following precautions when handling: • Do not handle the power plug with wet hands. • Do not use a power cord that is damaged or modified. • Do not pull the power cord with too much force when routing the cable through the setting plate.	❗
Do not install the setting plate in a place where it might be subjected to vibration or shock. This could cause damage to the projector or mounting surface. If this product falls, it could cause death or personal injury.	🚫
Install the setting plate so that it can sufficiently support the mass of the projector and setting plate, and resist any horizontal vibration. Use M10 nuts and bolts. Nuts and bolts smaller than M10 could cause the setting plate to fall. Epson accepts no responsibility for any damage or injury caused by lack of wall strength or inadequate installation.	❗
The installation work should be performed by at least two qualified service personnel. If you need to loosen any screws during installation, be careful not to drop this product. If this product falls, it could cause death or personal injury.	❗
When mounting this product on a wall, the wall requires enough strength to hold the projector and the setting plate. This product should be installed on a concrete wall. The maximum combined weight of the projector and the setting plate is approximately 20 kg (not including cables). Ensure the strength of the wall before mounting this product on the wall. If the wall is not strong enough, reinforce the wall before installation.	❗
Inspect the setting plate on a regular basis to ensure there are no broken parts or loose screws. If any parts are damaged, stop using the setting plate immediately. If this product falls, it could cause death or personal injury.	🚫
Do not disassemble or remodel this product. There are numerous high-voltage sections inside the product that could cause a fire, electric shock, or an accident.	🚫
Do not hang on this product or hang a heavy object on this product. If this product falls, it could cause death or personal injury.	🚫
Do not use adhesives, lubricants, or oils to install or adjust the setting plate. If you use adhesives to prevent the screws from loosening or things such as lubricants or oils on the slide plate fixing part of the projector, the case may crack and cause the projector to fall, resulting in personal injury or property damage.	🚫
Tighten all screws firmly after adjustment. Otherwise, the product may fall and cause personal injury or property damage.	❗
Never loosen the bolts and nuts after installation. Confirm that the screws have not become loose on a regular basis. If you find any loose screws, tighten them firmly. Otherwise, the product may fall and cause personal injury or property damage.	🚫
Route the cables so that they are not interfered with the nuts and bolts. Incorrect handling of the cables may cause fire or electric shock.	❗

⚠ Warning	
When turning on the projector, do not look into the projection window. This could cause damage to eyesight due to the powerful light emitted. Take particular care when there are children present. When turning on the projector at a distance using the remote control, make sure there is no one looking into the projection window.	🚫
When using the projector, do not place any objects or put your hand near the projection window. This area is dangerous as it reaches a high temperature due to the concentrated projection light.	🚫
Do not cover the projector's air intake vent or air exhaust vent. If either of the vents are covered, the internal temperature could rise and cause a fire. Avoid locations subject to high temperatures, such as close to heaters, and leave a gap of at least 50 cm between the wall and the air exhaust vent.	🚫
Do not use the projector in a location subject to combustible or explosive gas. The projector may catch fire because of the high temperature inside the projector.	🚫
If any abnormalities occur with this product, immediately disconnect the cables from the product, and then contact your local dealer or the nearest Epson service call center. Continuing to use the product in an abnormal condition could cause a fire, electric shock, or visual impairment.	❗
Laser warning labels are attached to the inside and the outside of the projector. Inside ⚠ **CAUTION / DANGER** CAUTION / DANGER: CLASS 4 LASER RADIATION WHEN OPEN AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION ATTENTION / DANGER : EN CAS D'OUVERTURE RAYONNEMENT LASER DE CLASSE 4 ÉVITER L'EXPOSITION DES YEUX OU DE LA PEAU AUX RAYONNEMENTS DIRECTS OU DIFFUÉS PRECAUCIÓN / PELIGRO: RADIACIÓN LASER DE CLASE 4 CUANDO ESTÁ ABIERTO EVITAR LA EXPOSICIÓN DE OJOS O PIEL A LA RADIACIÓN DIRECTA O DISPERSA ACHTUNG / GEFAHR: LASERSTRAHLUNG KLASSE 4 WENN GEÖFFNET BESTRAHLUNG VON AUGE ODER HAUT DURCH DIREKTE ODER STREUSTRAHLUNG VERMEIDEN 注意/危険:打开时有4级激光辐射 避免眼睛或皮肤受到直射或散射辐射的照射　　주의/위험:개방시 4 등급 레이저 제품 직접 혹은 분사 방사에 대한 눈 또는 피부 노출을 피하시오 注意/危險:打開時具有第4級(CLASS 4)雷射 避免眼睛或皮膚暴露於直射或散射的輻射　　注意/危険：ここを開くとクラス4のレーザ放射が出るビームや散乱光の目又は皮膚への被ばくを避けること Outside As with any bright source, do not stare into the beam, RG2 IEC/EN 62471-5:2015. ⚠ **WARNING** **WARNING: CAUTION. HOT** Do not place anything near the projection window. **AVERTISSEMENT : ATTENTION. CHAUD** Ne rien placer à proximité de la fenêtre de projection. **WARNUNG: ACHTUNG. HEISS** Keine Gegenstände in die Nähe des Projektionsfensters stellen. RG2 **WARNING:** Never look into the projection window. **AVERTISSEMENT :** Ne jamais regarder dans la fenêtre de projection. **WARNUNG:** Niemals in das Projektionsfenster blicken. ⚠ **WARNING** **WARNING: CAUTION. HOT** Do not place anything near the projection window. 경고: 주의. 뜨겁습니다 투영창 근처에는 아무 것도 두지 마십시오. 警語： 注意. 表面高温 請勿在投影視窗附近放置任何物品。 RG2 **WARNING:** Never look into the projection window. 경고: 절대로 투영창을 들여다보지 마십시오. 警語: 切勿直視投影視窗。	🚫
Never open any cases on the projector. Electrical voltages inside the projector can cause severe injury.	🚫

⚠️ Warning	
Do not look at operating light source. Possibly hazardous optical radiation emitted from this product. Eye injury may result.	🚫

⚠️ Caution	
Do not install this product in a location where the operating temperature for your projector model may be exceeded. Such an environment may damage the projector.	🚫
Install this product in a place free from excessive dust and humidity to prevent the lens or optical components from becoming dirty.	❗
Do not use excessive force when adjusting this product. This product may break, resulting in personal injury.	🚫
This projector is a Class 1 laser product that complies with the IEC/EN60825-1: 2014 international standard for lasers.	❗
Do not disassemble the projector when disposing of it. Dispose according to your local or national laws and regulations.	🚫

Notes on handling the Touch Unit (EB-710Ui only)

⚠️ Warning	
Do not disassemble or remodel the Touch Unit. The Touch Unit contains a high power laser product that could cause a fire, electric shock, or an accident.	🚫
Only connect the Touch Unit to the EB-710Ui. Do not connect it to any other projectors or devices. The device could malfunction, or laser light that is higher than normal intensity could be emitted.	🚫
Do not go near the Touch Unit if you are using medical equipment such as a pace maker. Furthermore, when using the Touch Unit, make sure there is no one using medical equipment such as a pace maker, in the surrounding area. A powerful magnet within the unit generates electromagnetic interference which may cause medical equipment to malfunction.	❗

⚠️ Caution	
Do not go near the Touch Unit with magnetic storage media such as magnetic cards, or precision electronic devices such as computers, digital watches, or mobile phones. A powerful magnet within the unit could corrupt data or cause a malfunction.	🚫
Do not disassemble the touch unit when disposing of it. Dispose according to your local or national laws and regulations.	🚫

About This Installation Guide
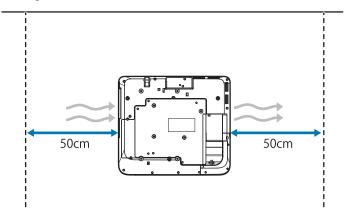
This guide describes how to mount the ultra short-throw projector EB-710Ui/EB-700U on a wall.

It also explains how to install the Touch Unit after mounting the projector on a wall (EB-710Ui only).
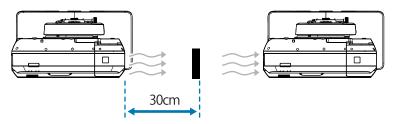
⬜ Choosing an Installation Location

Projector installation location

- Carry out power supply wiring work for the installation location of the setting plate in advance.
- Install the projector away from other electric devices such as fluorescent lights or air conditioners. Some kinds of fluorescent lights could interfere with the remote control of the projector.
- When installing the projector, make sure there is a gap of at least 50 cm from the wall to the projector's air exhaust and intake vents on the left and right.

- When installing two or more projectors in parallel, make sure the temperature of the surrounding environment is less than 35°C.
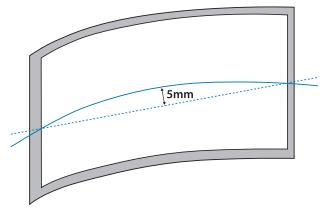
  If the environment is too hot, the projector may overheat and the power may turn off without warning. When using the projector in an environment of 35°C or more, install a partition to block the heat vented from the projector's air exhaust vent. Make sure the partition is slightly larger than the exhaust vent (approx. 2 cm wider and taller), and then install the partition 30 cm from the exhaust vent.
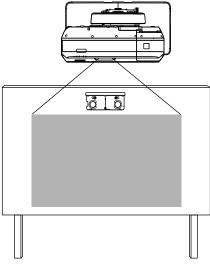
- It is recommended to keep connection cable length less than 20 meters to reduce external noise.
- We recommend using stick-on screens or board screens.
- Install the projector so that it is tilted at an angle of no more than ±3° vertically and horizontally in relation to the screen.
- When using the interactive function (Easy Interactive Function), install so that the projected image is within reach.
- Do not install the projector or the screen in a location subject to direct sunlight. If the projector or the screen are subject to direct sunlight, the interactive function may not operate correctly.

Touch Unit Installation Location (EB-710Ui only)
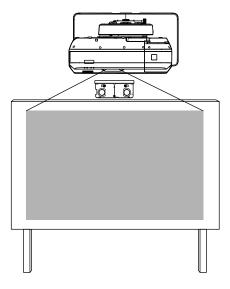
- When using the Touch Unit, install the projector using one of the following methods. The Touch Unit cannot be used if another installation method is used.

    - Mount the projector on a wall or suspend it from a ceiling and project images from in front of the screen.
    - Install vertically on a table and project from the front of the desk. (When installing vertically on a table, you need the optional Interactive Table Mount (ELPMB29).)
- Before installing the Touch Unit, make sure that the installation surface is not warped or distorted, and that any unevenness on the screen surface is less than 5 mm.
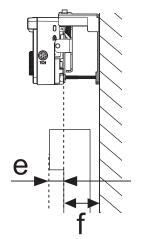
- When installing the Touch Unit on a whiteboard, secure the Touch Unit with magnets or screws.

- When installing the Touch Unit outside the whiteboard, you need the supplied Touch Unit Bracket.

- If the distance from the wall to the surface of the screen (f) is more than 50 mm, you cannot install the Touch Unit outside the whiteboard.
- If there is a frame around the screen, make sure that the thickness of the top of the frame (e) is less than 3 mm. If the thickness of the top of the screen exceeds 3 mm, the Touch Unit will not operate correctly.

Contents

Appendix

⬤ Installation Work Flow

Installing one projector

Follow the procedures below to mount the projector on a wall.

1 Installing the Setting Plate and the Projector (☞ p.37)

2 Adjusting the Position of the Projector (☞ p.49)

3 Calibrating the Interactive Pen (EB-710Ui only) (☞ p.58)
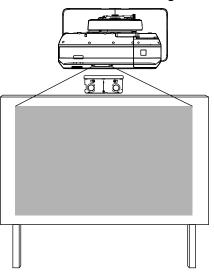
When installing the Touch Unit, finish installing the projector first, and then follow the procedures below. (EB-710Ui only)
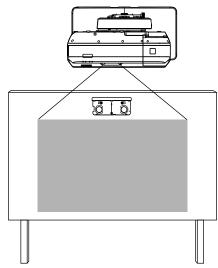
The procedure differs depending on where the Touch Unit is to be installed.

When installing the Touch Unit outside the whiteboard (using the Touch Unit Bracket)

1 Installing the Touch Unit (☞ p.65)

2 Adjusting the Angle of Laser Diffusion (☞ p.71)

3 Performing Touch Calibration (☞ p.86)

When installing the Touch Unit on the whiteboard (without using the Touch Unit Bracket)

1 Installing the Touch Unit (☛ p.89)
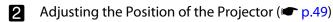
2 Adjusting the Angle of Laser Diffusion (☛ p.93)

3 Performing Touch Calibration (☛ p.86)
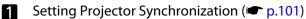
When two or more projectors are installed in parallel

When using the multi-projection function (when multiple projectors are installed in parallel to project one, large screen), follow the steps below.

1 Installing the Setting Plate and the Projector (☛ p.37)

2 Adjusting the Position of the Projector (☛ p.49)

3 Setting the Projector ID (☛ p.97)

4 Adjusting the Image in Multi-Projection (☛ p.100)

When two projectors are installed in parallel and you want to use the interactive function, make the following settings (EB-710Ui only). Make the settings for each projector in turn.

1 Setting Projector Synchronization (☛ p.101)

2 Setting Multi-Projection Interactive (☛ p.103)

⭕ Package Contents

Setting plate

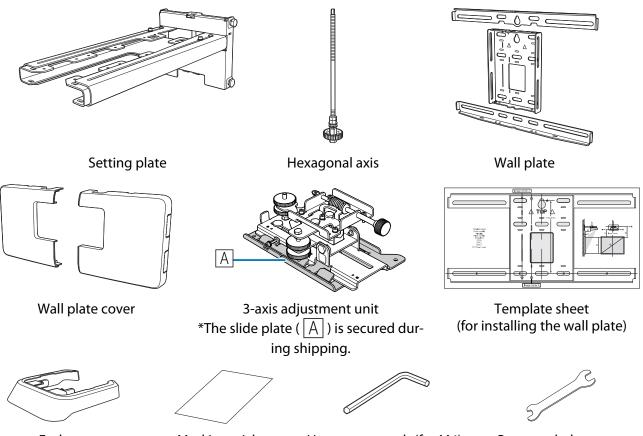The following supplied items are necessary to mount the projector on a wall. Confirm that you have all items before beginning. Depending on the area in which you purchased the product, the Setting Plate is not supplied. In this situation, purchase the optional Setting Plate ELPMB53.
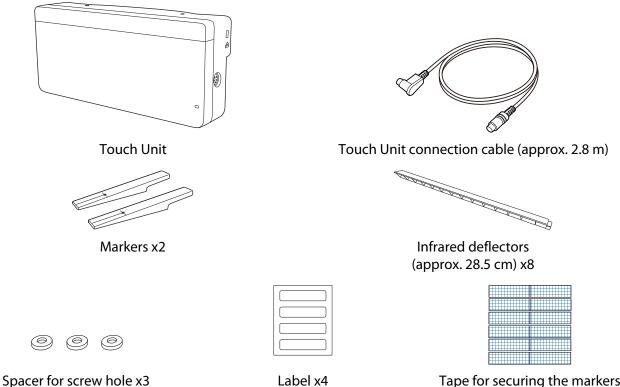
Setting plate	Hexagonal axis	Wall plate

Wall plate cover	3-axis adjustment unit *The slide plate (A) is secured during shipping.	Template sheet (for installing the wall plate)

End cap	Masking sticker	Hexagon wrench (for M4)	Open-ended spanner 13 mm (for M8 and M6), 6 mm (for hexagonal axis)

Shape	Name	Quantity	Application
🔩	M4 x 12 mm hexagon socket head cap bolt with washer/spring washer	5	For wall plate assembly
		4	For 3-axis adjustment unit/arm installation
		4	For slide plate/projector installation
🔩	M6 x 20 mm hexagon shoulder head bolt with washer/spring washer	1	For setting plate/wall plate installation
🔩	M6 x 20 mm cross recessed head shoulder screws with plastic washers	3	

- Use the bolts or screws supplied with this product to install it as directed in this guide. Do not substitute these bolts with any other types.
- You need to use commercially available M10 x 60 mm anchors (at least 4) and one M10 screw to attach the wall plate to the wall.
- Gather the tools and parts you need before you begin installation.
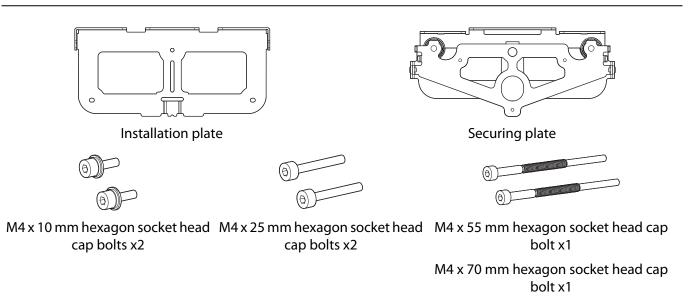
Touch Unit (EB-710Ui only)

The following supplied products are necessary when attaching the Touch Unit. Confirm that you have all items before beginning. When installing the Touch Unit outside the whiteboard, use the supplied Touch Unit Bracket.

Touch Unit

Touch Unit connection cable (approx. 2.8 m)

Markers x2

Infrared deflectors
(approx. 28.5 cm) x8

Spacer for screw hole x3

Label x4

Tape for securing the markers
(approx. 6 cm) x12

When installing the Touch Unit on a non-magnetic whiteboard, prepare three commercially available M4 screws.

▣ Touch Unit Bracket

Installation plate

Securing plate

M4 x 10 mm hexagon socket head cap bolts x2

M4 x 25 mm hexagon socket head cap bolts x2

M4 x 55 mm hexagon socket head cap bolt x1

M4 x 70 mm hexagon socket head cap bolt x1

For the installation plate, you also need three commercially available 4 mm diameter wood screws, or three M4 anchor bolts.
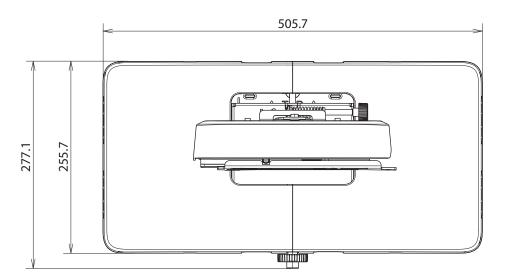
⬤ Specifications

Setting plate

Item	Specification	Remark	Reference Page
Setting plate weight	Approx. 7.9 kg	Setting plate, 3-axis adjustment unit, slide plate, wall plate, wall plate covers/end caps	
Maximum load capacity	13.0 kg		
Forward/backward slide adjustment range	0 to 320 mm	Adjustment for 3-axis adjustment unit installation position: 87 mm	See the figure below
Vertical slide adjustment range	±38 mm		See the figure below
Horizontal roll adjustment range	±3°	Fine adjustments possible with adjustment dial	☛ p.49
Horizontal rotation adjustment range	±8°	Fine adjustments possible with adjustment dial	☛ p.49
Vertical tilt adjustment range	±3°	Fine adjustments possible with adjustment dial	☛ p.49
Horizontal slide adjustment range	±45 mm		See the figure below

▨ Wall plate cover

The following dimensions apply when attaching the wall plate cover.
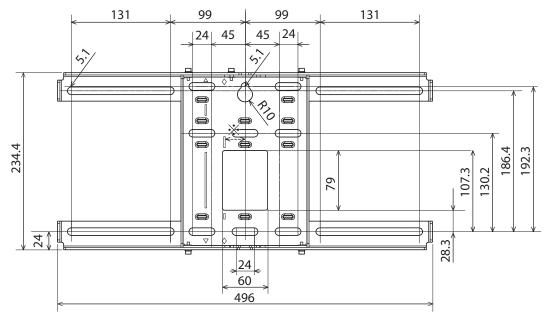
[Unit: mm]

When installing the wall plate cover, you need a space of approximately 263 mm from the center of the wall plate to the left side, and approximately 253 mm to the right side.

Wall plate

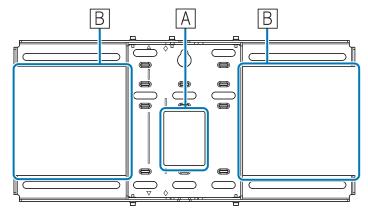The following figure shows two frames connected to one plate (separate when shipped).
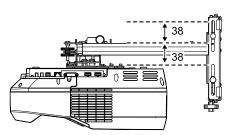
[Unit: mm]

* The offset value for the position of the center of the projected image and the center of the wall plate is 27 mm.

Cable routing holes

When routing cables to connect to the projector through a wall, use positions (A) and (B) in the following figure as the cable routing holes.

Vertical slide adjustment range

[Unit: mm]

16
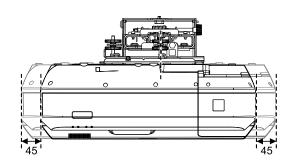
Horizontal slide adjustment range

[Unit: mm]

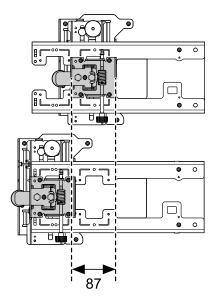### Forward/backward slide adjustment range

Arm slide adjustment range

[Unit: mm]

320

Adjustment range for 3-axis adjustment unit installation position

[Unit: mm]

87
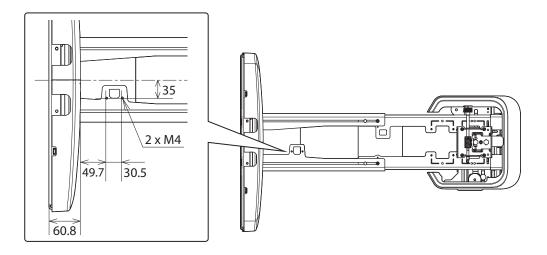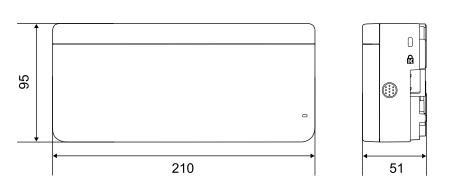
Position for installing accessories

These screw holes allow you to secure peripheral devices and accessories such as external tuners. Use commercially available M4 screws.

[Unit: mm]

35

2 x M4

49.7   30.5

60.8

Touch Unit (EB-710Ui only)

◼ Touch Unit (external dimensions/weight)

[Unit: mm]
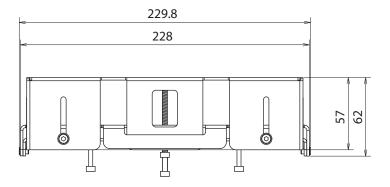
The Touch Unit weighs approximately 450 g.

◼ Touch Unit Bracket (external dimensions/adjustment range/weight)

Top
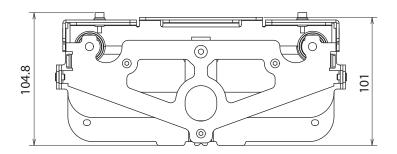
[Unit: mm]
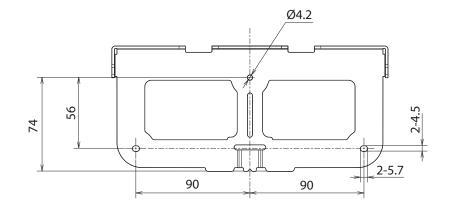
Front

[Unit: mm]
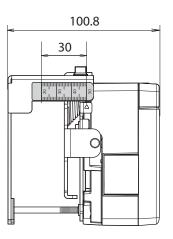
Installation plate (front)

[Unit: mm]

When the Touch Unit is installed (side)
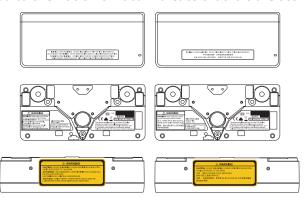
[Unit: mm]

Touch Unit Bracket weights approximately 750 g.

Attached labels

The Touch Unit is a Class 1 laser product that conforms to the IEC/EN60825-1:2014 standard.

There are warning labels affixed to the Touch Unit to indicate that it is a Class 1 laser product.
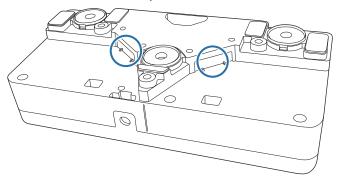
The labels contain the following information.

- Class 1 laser product
- Warning: Do not open the case. The device contains a high power laser product.
- Warning:

- Caution: If this section is opened, class 3B invisible laser radiation will be emitted.
- Avoid exposure to the radiation beams.

Laser diffusion port

The laser beam is diffused from the laser diffusion ports at the back of the Touch Unit.

- Light source output power: Maximum 285 mW x 2
- Wavelength: 932 - 960 nm
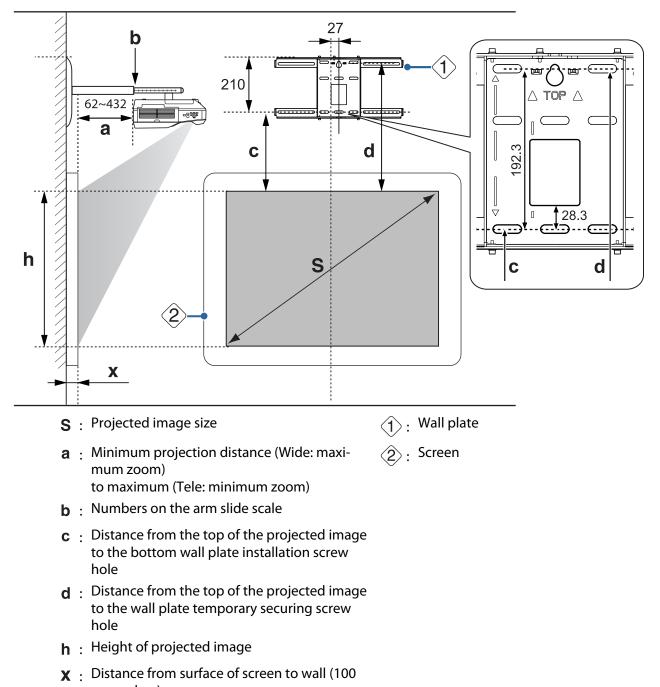
Projection Distance Table

Figures of Installation Dimensions
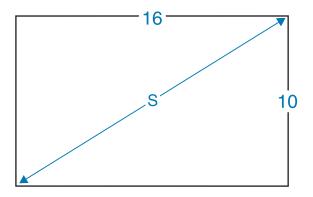
To find the appropriate projection distance, see the following figures when installing. The values are only rough estimates.

The recommended range for the projection distance (a) is 62 to 432 mm.

The offset value for the position of the center of the projected image and the center of the wall plate is 27 mm.

[Unit: mm]

S : Projected image size

a : Minimum projection distance (Wide: maximum zoom)
to maximum (Tele: minimum zoom)

b : Numbers on the arm slide scale

c : Distance from the top of the projected image to the bottom wall plate installation screw hole

d : Distance from the top of the projected image to the wall plate temporary securing screw hole

h : Height of projected image

x : Distance from surface of screen to wall (100 mm or less)

1 : Wall plate

2 : Screen

Aspect ratio for standard projected image

When installing the Touch Unit (EB-710Ui only)

By using the supplied Touch Unit Bracket, you can install the Touch Unit outside the whiteboard.

When installing the Touch Unit outside the whiteboard, measure the length from the surface where the Touch Unit is installed to the whiteboard surface ((f) in the following figure).
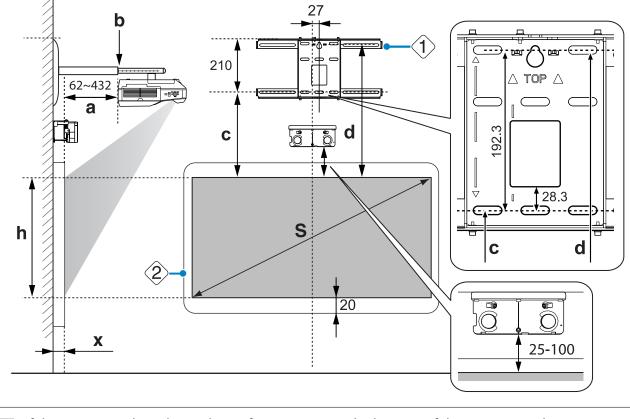
- When (f) is 20 to 50 mm, you can install the Touch Unit outside the whiteboard using the bracket.
- When (f) is less than 20 mm or more than 50 mm install the Touch Unit on the whiteboard.
- When the thickness of the top of the frame (e) is 3 mm or more, install the Touch Unit on the whiteboard.

> ⚠ **Caution**
>
> Install the bottom edge of the Touch Unit so that it is 25 to 100 mm from the top edge of the projected image.
>
> If there are obstacles between the projected image and the Touch Unit such as cables, whiteboard trays, or holders, the Touch Unit will not operate correctly.

When the Touch Unit is installed outside the whiteboard (using the Touch Unit Bracket)

[Unit: mm]
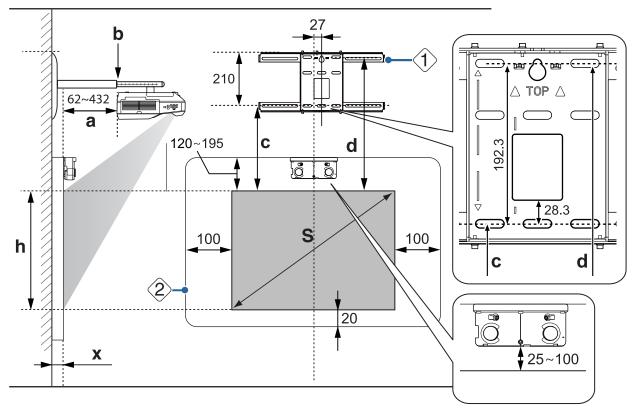
> 📓 If there are any obstacles such as a frame or tray at the bottom of the screen, touch operations will not operate correctly. Stick the supplied infrared deflectors along the locations of the obstacles (☛ p.55). Make sure there is a space of approximately 20 mm between the place where the infrared deflector is stuck and the bottom of the projected image.
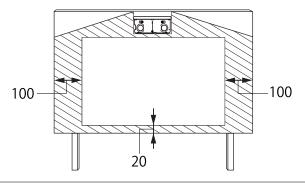
When installing the Touch Unit on the whiteboard (without using the Touch Unit Bracket)

You need to leave at least 120 mm distance between the top edge of the projected image and the top edge of the actual screen.

[Unit: mm]
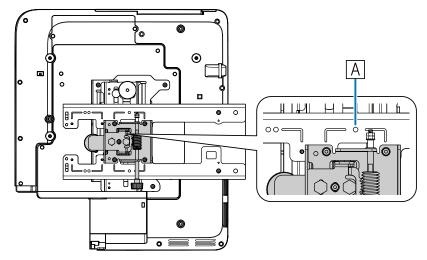
- If there are any obstacles such as a frame or tray at the bottom of the screen, touch operations will not operate correctly. Stick the supplied infrared deflectors over the locations of the obstacles (☛ p.55). Make sure there is a space of at least 20 mm between the place where the infrared deflector is stuck and the bottom of the projected image.
- If there are obstacles in the shaded areas in the following figure, such as cables, whiteboard trays, holders, or a thick frame, touch operations will not operate correctly.

When Projected Image is Smaller than 85 Inches

Mount the 3-axis adjustment unit at the position marked with a ◯ stamp (A).

The projection distance table provides the figures when mounting the 3-axis adjustment unit at the position marked with a ◯ stamp (A).

The distance from the top of the projected image to the bottom wall plate installation screw hole (c) is the number given when the vertical slide is set to the standard position (B).

Match the notch on the setting plate to the position of the stamp on the wall plate.

16:10 projected image

[Unit: cm]

S		a	b	c	d	h
Projected image size		Projection Distance Minimum (Wide) to Maximum (Tele)	Numbers on the arm slide scale	Distance to the bottom wall plate installation screw hole	Distance from the top of the projected image to the wall plate temporary securing screw hole	Height of projected image
70"	150.8x94.2	5.6 to 20.9	16.5 to 31.8	23.7	42.9	94.3
71"	152.9x95.6	6.2 to 21.8	17.1 to 32.7	24.0	43.2	95.6
72"	155.1x96.9	6.8 to 22.6	17.7 to 33.5	24.3	43.5	96.9
73"	157.2x98.3	7.4 to 23.5	18.3 to 34.4	24.6	43.8	98.2
74"	159.4x99.6	8.1 to 24.3	19.0 to 35.2	24.8	44.0	99.7
75"	161.5x101.0	8.7 to 25.2	19.6 to 36.1	25.1	44.3	101.0
76"	163.7x102.3	9.3 to 26.0	20.2 to 36.9	25.4	44.6	102.3
77"	165.9x103.7	10.0 to 26.9	20.9 to 37.8	25.7	44.9	103.6
78"	168.0x105.0	10.6 to 27.7	21.5 to 38.6	26.0	45.2	105.0
79"	170.2x106.3	11.2 to 28.6	22.1 to 39.5	26.2	45.4	106.4
80"	172.3x107.7	11.8 to 29.4	22.7 to 40.3	26.5	45.7	107.7
81"	174.5x109.0	12.5 to 30.3	23.4 to 41.2	26.8	46.0	109.0
82"	176.6x110.4	13.1 to 31.1	24.0 to 42.0	27.1	46.3	110.4
83"	178.8x111.7	13.7 to 32.0	24.6 to 42.9	27.4	46.6	111.7
84"	180.9x113.1	14.3 to 32.8	25.2 to 43.7	27.6	46.8	113.1

Images smaller than 70 inches are not projected correctly.

- The values are only rough estimates. The value may differ depending on the location where you place the projector.
- When projecting in Tele, the quality of the projected images may decrease.

16:9 projected image (EB-700U only)

[Unit: cm]

S		a	b	c	d	h
Projected image size		Projection Distance Minimum (Wide) to Maximum (Tele)	Numbers on the arm slide scale	Distance to the bottom wall plate installation screw hole	Distance from the top of the projected image to the wall plate temporary securing screw hole	Height of projected image
70"	155.0x87.2	6.8 to 22.6	17.7 to 33.5	29.1	48.3	87.2
71"	157.2x88.4	7.4 to 23.5	18.3 to 34.4	29.5	48.7	88.4
72"	159.4x89.7	8.1 to 24.3	19.0 to 35.2	29.8	49.0	89.7
73"	161.6x90.9	8.7 to 25.2	19.6 to 36.1	30.2	49.4	90.9
74"	163.8x92.1	9.4 to 26.1	20.3 to 37.0	30.5	49.7	92.2
75"	166.0x93.4	10.0 to 26.9	20.9 to 37.8	30.9	50.1	93.4
76"	168.2x94.6	10.6 to 27.8	21.5 to 38.7	31.3	50.5	94.6
77"	170.5x95.9	11.3 to 28.7	22.2 to 39.6	31.6	50.8	95.9
78"	172.7x97.1	11.9 to 29.6	22.8 to 40.5	32.0	51.2	97.1
79"	174.9x98.4	12.6 to 30.4	23.5 to 41.3	32.3	51.5	98.4
80"	177.1x99.6	13.2 to 31.3	24.1 to 42.2	32.7	51.9	99.6
81"	179.3x100.9	13.9 to 32.2	24.8 to 43.1	33.0	52.2	100.9
82"	181.5x102.1	14.5 to 33.0	25.4 to 43.9	33.4	52.6	102.1
83"	183.7x103.4	15.2 to 33.9	26.1 to 44.8	33.8	53.0	103.3
84"	186.0x104.6	15.8 to 34.8	26.7 to 45.7	34.1	53.3	104.6

Images smaller than 70 inches are not projected correctly.

> • The values are only rough estimates. The value may differ depending on the location where you place the projector.
> • When projecting in Tele, the quality of the projected images may decrease.

4:3 projected image (EB-700U only)

[Unit: cm]

| S		a	b	c	d	h
Projected image size		Projection Distance Minimum (Wide) to Maximum (Tele)	Numbers on the arm slide scale	Distance to the bottom wall plate installation screw hole	Distance from the top of the projected image to the wall plate temporary securing screw hole	Height of projected image
70"	142.2x106.7	11.4 to 28.8	22.3 to 39.7	26.3	45.5	106.7
71"	144.3x108.2	12.1 to 29.7	23.0 to 40.6	26.6	45.8	108.2
72"	146.3x109.7	12.8 to 30.7	23.7 to 41.6	27.0	46.2	109.7
73"	148.3x111.3	13.5 to 31.7	24.4 to 42.6	27.3	46.5	111.2
74"	150.4x112.8	14.2 to 32.6	25.1 to 43.5	27.6	46.8	112.8
75"	152.4x114.3	14.9 to 33.6	25.8 to 44.5	27.9	47.1	114.3
76"	154.4x115.8	15.6 to 34.5	26.5 to 45.4	28.2	47.4	115.8
77"	156.5x117.3	16.3 to 35.5	27.2 to 46.4	28.5	47.7	117.4
78"	158.5x118.9	17.0 to 36.5	27.9 to 47.4	28.9	48.1	118.8
79"	160.5x120.4	17.8 to 37.4	28.7 to 48.3	29.2	48.4	120.4
80"	162.6x121.9	18.5 to 38.0	29.4 to 48.9	29.5	48.7	121.9
81"	164.6x123.4	19.2 to 38.0	30.1 to 48.9	29.8	49.0	123.5
82"	166.6x125.0	19.9 to 38.0	30.8 to 48.9	30.1	49.3	125.0
83"	168.7x126.5	20.6 to 38.0	31.5 to 48.9	30.4	49.6	126.5
84"	170.7x128.0	21.3 to 38.0	32.2 to 48.9	30.8	50.0	128.0

Images smaller than 70 inches are not projected correctly.
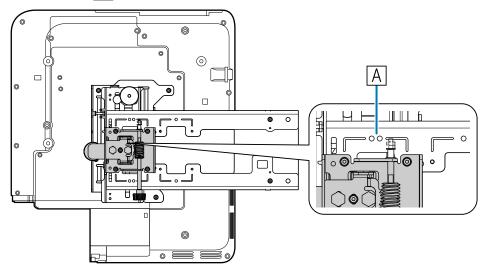
> • The values are only rough estimates. The value may differ depending on the location where you place the projector.
> • When projecting in Tele, the quality of the projected images may decrease.

When Projected Image is 85 inches or more

Mount the 3-axis adjustment unit at the position marked with a ◯◯ stamp (A).

The projection distance table provides the figures when mounting the 3-axis adjustment unit at the position marked with a ◯◯ stamp (A).

The distance from the top of the projected image to the bottom wall plate installation screw hole (c) is the number given when the vertical slide is set to the standard position (B).

Match the notch on the setting plate to the position of the stamp on the wall plate.

16:10 projected image

[Unit: cm]

S		a	b	c	d	h
Projected image size		Projection Distance Minimum (Wide) to Maximum (Tele)	Numbers on the arm slide scale	Distance to the bottom wall plate installation screw hole	Distance from the top of the projected image to the wall plate temporary securing screw hole	Height of projected image
85"	183.1x114.4	15.0 to 33.7	17.2 to 35.9	27.9	47.1	114.5
86"	185.2x115.8	15.6 to 34.5	17.8 to 36.7	28.2	47.4	115.8
87"	187.4x117.1	16.2 to 35.3	18.4 to 37.5	28.5	47.7	117.1
88"	189.5x118.5	16.9 to 36.2	19.1 to 38.4	28.8	48.0	118.4
89"	191.7x119.8	17.5 to 37.0	19.7 to 39.2	29.1	48.3	119.8
90"	193.9x121.2	18.1 to 37.9	20.3 to 40.1	29.3	48.5	121.2
91"	196.0x122.5	18.7 to 38.7	20.9 to 40.9	29.6	48.8	122.5
92"	198.2x123.9	19.4 to 39.6	21.6 to 41.8	29.9	49.1	123.8
93"	200.3x125.2	20.0 to 40.4	22.2 to 42.6	30.2	49.4	125.2
94"	202.5x126.5	20.6 to 41.3	22.8 to 43.5	30.5	49.7	126.5
95"	204.6x127.9	21.3 to 42.1	23.5 to 44.3	30.7	49.9	127.9
96"	206.8x129.2	21.9 to 43.0	24.1 to 45.2	31.0	50.2	129.2
97"	208.9x130.6	22.5 to 43.2	24.7 to 45.4	31.3	50.5	130.6
98"	211.1x131.9	23.1 to 43.2	25.3 to 45.4	31.6	50.8	131.9
99"	213.2x133.3	23.8 to 43.2	26.0 to 45.4	31.9	51.1	133.2
100"	215.4x134.6	24.4 to 43.2	26.6 to 45.4	32.1	51.3	134.7
101"*	217.5x136.0	25.0 to 43.2	27.2 to 45.4	32.4	51.6	136.0
102"*	219.7x137.3	25.6 to 43.2	27.8 to 45.4	32.7	51.9	137.3
103"*	221.9x138.7	26.3 to 43.2	28.5 to 45.4	33.0	52.2	138.6
104"*	224.0x140.0	26.9 to 43.2	29.1 to 45.4	33.3	52.5	140.0
105"*	226.2x141.4	27.5 to 43.2	29.7 to 45.4	33.5	52.7	141.4
106"*	228.3x142.7	28.2 to 43.2	30.4 to 45.4	33.8	53.0	142.7
107"*	230.5x144.0	28.8 to 43.2	31.0 to 45.4	34.1	53.3	144.0
108"*	232.6x145.4	29.4 to 43.2	31.6 to 45.4	34.4	53.6	145.4
109"*	234.8x146.7	30.0 to 43.2	32.2 to 45.4	34.7	53.9	146.7
110"*	236.9x148.1	30.7 to 43.2	32.9 to 45.4	34.9	54.1	148.1
111"*	239.1x149.4	31.3 to 43.2	33.5 to 45.4	35.2	54.4	149.4
112"*	241.2x150.8	31.9 to 43.2	34.1 to 45.4	35.5	54.7	150.8
113"*	243.4x152.1	32.6 to 43.2	34.8 to 45.4	35.8	55.0	152.1
114"*	245.5x153.5	33.2 to 43.2	35.4 to 45.4	36.1	55.3	153.4
115"*	247.7x154.8	33.8 to 43.2	36.0 to 45.4	36.3	55.5	154.9

S		a	b	c	d	h
Projected image size		Projection Distance Minimum (Wide) to Maximum (Tele)	Numbers on the arm slide scale	Distance to the bottom wall plate installation screw hole	Distance from the top of the projected image to the wall plate temporary securing screw hole	Height of projected image
116"*	249.9x156.2	34.4 to 43.2	36.6 to 45.4	36.6	55.8	156.2
117"*	252.0x157.5	35.1 to 43.2	37.3 to 45.4	36.9	56.1	157.5
118"*	254.2x158.9	35.7 to 43.2	37.9 to 45.4	37.2	56.4	158.8
119"*	256.3x160.2	36.3 to 43.2	38.5 to 45.4	37.5	56.7	160.2
120"*	258.5x161.5	37.0 to 43.2	39.2 to 45.4	37.7	56.9	161.6
121"*	260.6x162.9	37.6 to 43.2	39.8 to 45.4	38.0	57.2	162.9
122"*	262.8x164.2	38.2 to 43.2	40.4 to 45.4	38.3	57.5	164.2
123"*	264.9x165.6	38.8 to 43.2	41.0 to 45.4	38.6	57.8	165.6
124"*	267.1x166.9	39.5 to 43.2	41.7 to 45.4	38.9	58.1	166.9
125"*	269.2x168.3	40.1 to 43.2	42.3 to 45.4	39.1	58.3	168.3
126"*	271.4x169.6	40.7 to 43.2	42.9 to 45.4	39.4	58.6	169.6
127"*	273.5x171.0	41.3 to 43.2	43.5 to 45.4	39.7	58.9	171.0
128"*	275.7x172.3	42.0 to 43.2	44.2 to 45.4	40.0	59.2	172.3
129"*	277.9x173.7	42.6 to 43.2	44.8 to 45.4	40.3	59.5	173.6
130"*	280.0x175.0	43.2	45.4	40.5	59.7	175.1

* For images larger than 100 inches, the interactive function does not work correctly (EB-710Ui only).

Images larger than 130 inches are not projected correctly.

> • The values are only rough estimates. The value may differ depending on the location where you place the projector.
> • When projecting in Tele, the quality of the projected images may decrease.

16:9 projected image (EB-700U only)

[Unit: cm]

S		a	b	c	d	h
Projected image size		Projection Distance Minimum (Wide) to Maximum (Tele)	Numbers on the arm slide scale	Distance to the bottom wall plate installation screw hole	Distance from the top of the projected image to the wall plate temporary securing screw hole	Height of projected image
85"	188.2x105.8	16.5 to 35.7	18.7 to 37.9	34.5	53.7	105.8
86"	190.4x107.1	17.1 to 36.5	19.3 to 38.7	34.8	54.0	107.1
87"	192.6x108.3	17.7 to 37.4	19.9 to 39.6	35.2	54.4	108.3
88"	194.8x109.6	18.4 to 38.3	20.6 to 40.5	35.5	54.7	109.6
89"	197.0x110.8	19.0 to 39.1	21.2 to 41.3	35.9	55.1	110.8
90"	199.2x112.1	19.7 to 40.0	21.9 to 42.2	36.3	55.5	112.0
91"	201.5x113.3	20.3 to 40.9	22.5 to 43.1	36.6	55.8	113.3
92"	203.7x114.6	21.0 to 41.8	23.2 to 44.0	37.0	56.2	114.5
93"	205.9x115.8	21.6 to 42.6	23.8 to 44.8	37.3	56.5	115.8
94"	208.1x117.1	22.3 to 43.2	24.5 to 45.4	37.7	56.9	117.0
95"	210.3x118.3	22.9 to 43.2	25.1 to 45.4	38.0	57.2	118.3
96"	212.5x119.5	23.6 to 43.2	25.8 to 45.4	38.4	57.6	119.5
97"	214.7x120.8	24.2 to 43.2	26.4 to 45.4	38.8	58.0	120.8
98"	217.0x122.0	24.8 to 43.2	27.0 to 45.4	39.1	58.3	122.1
99"	219.2x123.3	25.5 to 43.2	27.7 to 45.4	39.5	58.7	123.3
100"	221.4x124.5	26.1 to 43.2	28.3 to 45.4	39.8	59.0	124.6
101"	223.6x125.8	26.8 to 43.2	29.0 to 45.4	40.2	59.4	125.8
102"	225.8x127.0	27.4 to 43.2	29.6 to 45.4	40.5	59.7	127.1
103"	228.0x128.3	28.1 to 43.2	30.3 to 45.4	40.9	60.1	128.3
104"	230.2x129.5	28.7 to 43.2	30.9 to 45.4	41.3	60.5	129.5
105"	232.4x130.8	29.4 to 43.2	31.6 to 45.4	41.6	60.8	130.8
106"	234.7x132.0	30.0 to 43.2	32.2 to 45.4	42.0	61.2	132.0
107"	236.9x133.2	30.7 to 43.2	32.9 to 45.4	42.3	61.5	133.3
108"	239.1x134.5	31.3 to 43.2	33.5 to 45.4	42.7	61.9	134.5
109"	241.3x135.7	31.9 to 43.2	34.1 to 45.4	43.1	62.3	135.7
110"	243.5x137.0	32.6 to 43.2	34.8 to 45.4	43.4	62.6	137.0
111"	245.7x138.2	33.2 to 43.2	35.4 to 45.4	43.8	63.0	138.2
112"	247.9x139.5	33.9 to 43.2	36.1 to 45.4	44.1	63.3	139.5
113"	250.2x140.7	34.5 to 43.2	36.7 to 45.4	44.5	63.7	140.7
114"	252.4x142.0	35.2 to 43.2	37.4 to 45.4	44.8	64.0	142.0
115"	254.6x143.2	35.8 to 43.2	38.0 to 45.4	45.2	64.4	143.2

S		a	b	c	d	h
Projected image size		Projection Distance Minimum (Wide) to Maximum (Tele)	Numbers on the arm slide scale	Distance to the bottom wall plate installation screw hole	Distance from the top of the projected image to the wall plate temporary securing screw hole	Height of projected image
116"	256.8x144.5	36.5 to 43.2	38.7 to 45.4	45.6	64.8	144.4
117"	259.0x145.7	37.1 to 43.2	39.3 to 45.4	45.9	65.1	145.7
118"	261.2x146.9	37.8 to 43.2	40.0 to 45.4	46.3	65.5	146.9
119"	263.4x148.2	38.4 to 43.2	40.6 to 45.4	46.6	65.8	148.2
120"	265.7x149.4	39.0 to 43.2	41.2 to 45.4	47.0	66.2	149.4
121"	267.9x150.7	39.7 to 43.2	41.9 to 45.4	47.3	66.5	150.7
122"	270.1x151.9	40.3 to 43.2	42.5 to 45.4	47.7	66.9	151.9
123"	272.3x153.2	41.0 to 43.2	43.2 to 45.4	48.1	67.3	153.1
124"	274.5x154.4	41.6 to 43.2	43.8 to 45.4	48.4	67.6	154.4
125"	276.7x155.7	42.3 to 43.2	44.5 to 45.4	48.8	68.0	155.7
126"	278.9x156.9	42.9 to 43.2	45.1 to 45.4	49.1	68.3	156.9

Images larger than 126 inches are not projected correctly.

- The values are only rough estimates. The value may differ depending on the location where you place the projector.
- When projecting in Tele, the quality of the projected images may decrease.

4:3 projected image (EB-700U only)

[Unit: cm]

S		a	b	c	d	h
Projected image size		Projection Distance Minimum (Wide) to Maximum (Tele)	Numbers on the arm slide scale	Distance to the bottom wall plate installation screw hole	Distance from the top of the projected image to the wall plate temporary securing screw hole	Height of projected image
85"	172.7x129.5	22.0 to 43.2	24.2 to 45.4	31.1	50.3	129.5
86"	174.8x131.1	22.7 to 43.2	24.9 to 45.4	31.4	50.6	131.1
87"	176.8x132.6	23.4 to 43.2	25.6 to 45.4	31.7	50.9	132.6
88"	178.8x134.1	24.2 to 43.2	26.4 to 45.4	32.0	51.2	134.1
89"	180.8x135.6	24.9 to 43.2	27.1 to 45.4	32.3	51.5	135.7
90"	182.9x137.2	25.6 to 43.2	27.8 to 45.4	32.7	51.9	137.1
91"	184.9x138.7	26.3 to 43.2	28.5 to 45.4	33.0	52.2	138.7
92"	186.9x140.2	27.0 to 43.2	29.2 to 45.4	33.3	52.5	140.2
93"	189.0x141.7	27.7 to 43.2	29.9 to 45.4	33.6	52.8	141.7
94"	191.0x143.3	28.4 to 43.2	30.6 to 45.4	33.9	53.1	143.3
95"	193.0x144.8	29.1 to 43.2	31.3 to 45.4	34.3	53.5	144.7
96"	195.1x146.3	29.8 to 43.2	32.0 to 45.4	34.6	53.8	146.3
97"	197.1x147.8	30.6 to 43.2	32.8 to 45.4	34.9	54.1	147.8
98"	199.1x149.4	31.3 to 43.2	33.5 to 45.4	35.2	54.4	149.4
99"	201.2x150.9	32.0 to 43.2	34.2 to 45.4	35.5	54.7	150.9
100"	203.2x152.4	32.7 to 43.2	34.9 to 45.4	35.8	55.0	152.4
101"	205.2x153.9	33.4 to 43.2	35.6 to 45.4	36.2	55.4	153.9
102"	207.3x155.4	34.1 to 43.2	36.3 to 45.4	36.5	55.7	155.4
103"	209.3x157.0	34.8 to 43.2	37.0 to 45.4	36.8	56.0	157.0
104"	211.3x158.5	35.5 to 43.2	37.7 to 45.4	37.1	56.3	158.5
105"	213.4x160.0	36.2 to 43.2	38.4 to 45.4	37.4	56.6	160.0
106"	215.4x161.5	37.0 to 43.2	39.2 to 45.4	37.7	56.9	161.6
107"	217.4x163.1	37.7 to 43.2	39.9 to 45.4	38.1	57.3	163.0
108"	219.5x164.6	38.4 to 43.2	40.6 to 45.4	38.4	57.6	164.6
109"	221.5x166.1	39.1 to 43.2	41.3 to 45.4	38.7	57.9	166.1
110"	223.5x167.6	39.8 to 43.2	42.0 to 45.4	39.0	58.2	167.7
111"	225.6x169.2	40.5 to 43.2	42.7 to 45.4	39.3	58.5	169.2
112"	227.6x170.7	41.2 to 43.2	43.4 to 45.4	39.7	58.9	170.6
113"	229.6x172.2	41.9 to 43.2	44.1 to 45.4	40.0	59.2	172.2
114"	231.6x173.7	42.6 to 43.2	44.8 to 45.4	40.3	59.5	173.7

Images larger than 114 inches are not projected correctly.
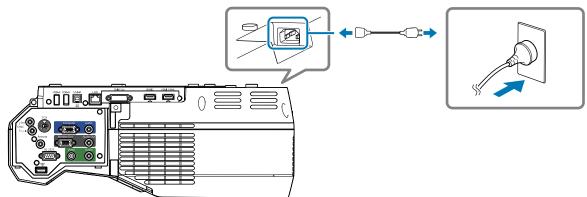
- The values are only rough estimates. The value may differ depending on the location where you place the projector.
- When projecting in Tele, the quality of the projected images may decrease.

⬤ Installing the Setting Plate

Connecting Devices

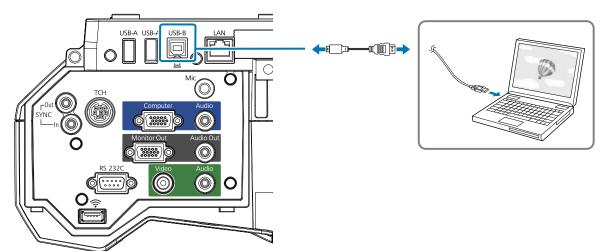### ▣ Necessary cables

Be sure to prepare the power cord supplied.

Additionally, prepare the necessary cables according to the devices being used.

- USB connection cable supplied (EB-710Ui only)
- Computer cable supplied (EB-700U only)
- Touch Unit connection cable supplied (EB-710Ui only)
- Other cables (prepare according to the connected devices)

For details, see the projector's *User's Guide* (on the Document CD-ROM).
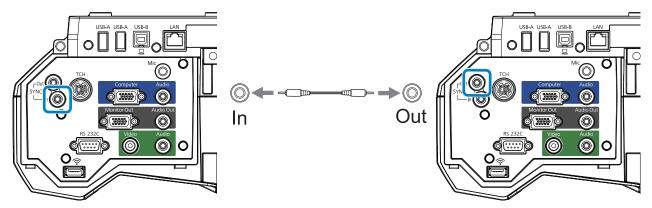
Necessary cables when using the Easy Interactive Function (EB-710Ui only)

When performing mouse operations using the Easy Interactive Function, you need a USB cable. Even when projecting using a computer cable, a USB cable is necessary to perform mouse operations.

Necessary cables when installing two projectors in parallel and using the Easy Interactive Function (EB-710Ui only)

When using the interactive function with two projectors installed in parallel, you need the optional remote control cable set (ELPKC28).
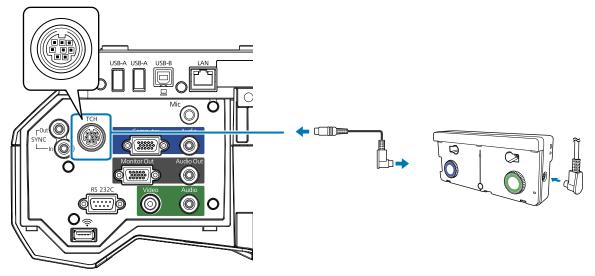
When connecting one computer to two projectors and using the interactive function, connect a USB cable from the computer to each projector. You need a computer with two USB-A ports.

Necessary cables when installing the Touch Unit (EB-710Ui only)

You need the supplied Touch Unit connection cable when installing the Touch Unit and connecting it to the projector. Operations are not performed correctly with a commercially available cable.

The shape of the plug that connects to the projector and the plug that connects to the Touch Unit differ. See the following figure to connect to the correct ports.
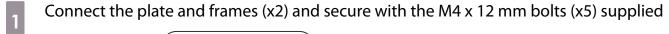
Installation Procedure
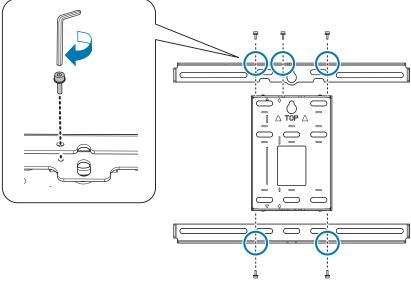
Make sure to follow the steps below to install the setting plate. If these steps are not followed, the product could fall and cause personal injury or property damage.
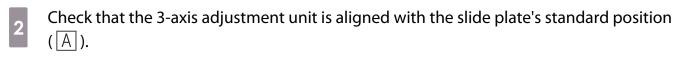
> ⚠️ **Warning**
>
> Do not use adhesives, lubricants, or oils to install or adjust the setting plate. If you use adhesives to prevent the screws from loosening or things such as lubricants or oils on the slide plate fixing part of the projector, the case may crack and cause the projector to fall, resulting in personal injury or property damage.
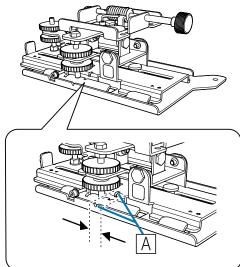
▦ Assemble the parts

1 Connect the plate and frames (x2) and secure with the M4 x 12 mm bolts (x5) supplied

2 Check that the 3-axis adjustment unit is aligned with the slide plate's standard position (A).
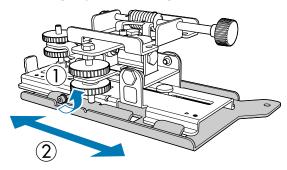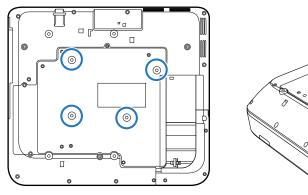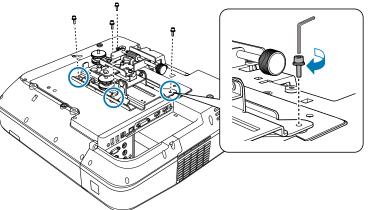
If the standard position (A) is not correct, loosen the M4 bolt and adjust the position of the slide plate. When you have finished making adjustments, tighten the bolt.

3 Secure the 3-axis adjustment unit and the slide plate to the base of the projector with the M4 x 12 mm bolts (x4) supplied

Bolt installation positions

▪ Install the wall plate on the wall

---
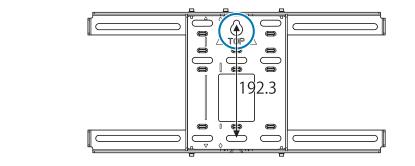
1 Determine the projection position based on the projected image size

See the projection distance table to check the following values.

- Projected image size (S)
- Distance from the top of the projected image to the bottom wall plate installation screw hole (c)
- Distance from the top of the projected image to the wall plate temporary securing screw hole (d)

☛ "Projection Distance Table"
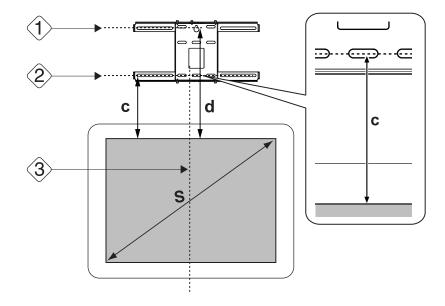
> Use the screw hole in the following figure as the temporary screw hole for the wall plate. The distance from the bottom wall plate installation screw hole to the temporary screw hole is 192.3 mm.
>
>

We recommend marking the following positions. These will be the basis for determining the mounting position of the wall plate.
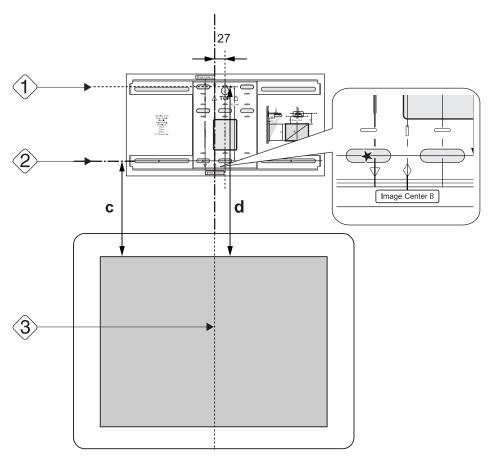
- Position of the temporary screw hole (①)
- Position of the bottom wall plate installation screw hole (②)
- Center line (③) of the projected image

2 Attach the template sheet to the wall

- Match the center line (③) checked in step 1 to the **Image Center B** line on the template sheet.

  Confirm where the beams are within the wall, and shift the position left or right as necessary.
  (The position can be shifted horizontally left or right from the center line of the projection surface up to a maximum of 45 mm.)

- Match the height (①) and (②) checked in step 1 to the ★ lines on the template sheet.
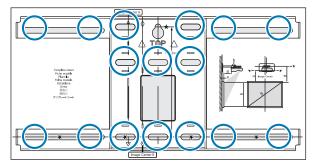
[Unit: mm]

3 Drive a commercially available M10 screw into the position of the temporary screw hole for the wall plate

Leave a gap of 6 mm or more between the wall and the screw head.

4 Determine the positions for the mounting holes for the wall plate

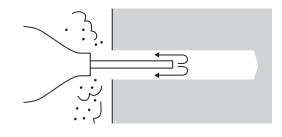From the screw holes shown in the figure below, secure at least four points for optimum balance.
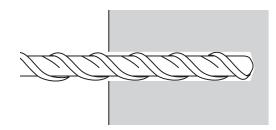
5 Drill the holes in the wall

Drill diameter: 10.5 mm
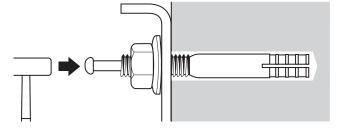Pilot hole depth: 45 mm
Anchor hole depth: 40 mm

6 Remove the template sheet, and clean the concrete dust from the holes with a dust pump
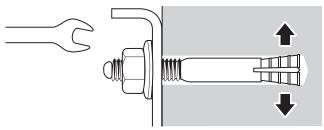
7 Position the wall plate on the wall and insert M10 x 60 mm commercially available anchors into the holes

Attach the nut and tap it with a hammer until the core touches the top of the anchor.

8 Tighten the nut with a commercially available spanner to secure the wall plate to the wall
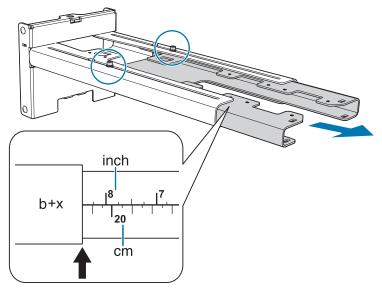
Determine the projection distance, and then pass the cables through the setting plate

1 Check the following values in the projection distance table

- Numbers on the arm slide scale (b)
- Distance from surface of screen to wall (x)
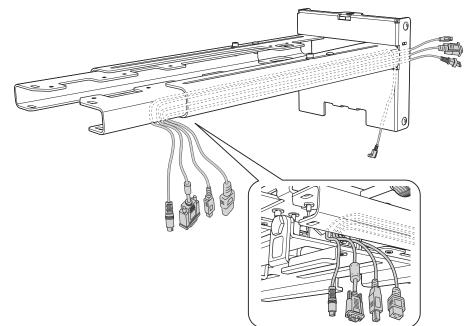
☛ "Projection Distance Table" p.22

2   Loosen the M4 x 12 mm bolts (x2) and extend the arm slide on the setting plate

Align the slider with the combined distances of (b) and (x) that you checked in step 1.

3   Route the necessary cables through the setting plate

See the following figure to route the cables so that the ends of the cables that connect to the projector are on the projector's interface side.

> ⚠ **Warning**
>
> Do not hang the rest of the cable over the setting plate. They could fall and cause an accident.

> 📓 Route the Touch Unit connection cable through the setting plate (EB-710Ui only). Route the cable so that the end that connects to the Touch Unit appears from the lower part of the setting plate.

Attaching the setting plate to the wall plate

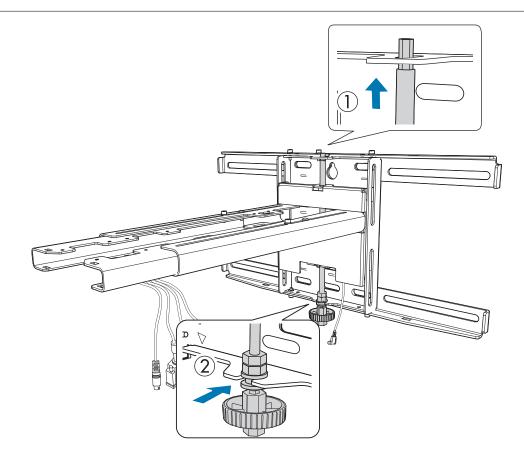**1** Insert the hexagonal axis into the setting plate

2 Mount the setting plate to the wall plate

Insert the top of the hexagonal axis into the wall plate, and then insert it into the slot at the bottom.
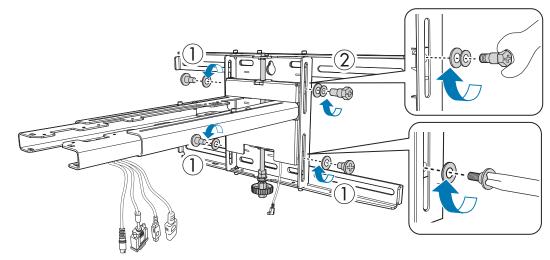
> ⚠ **Caution**
>
> - Do not route the Touch Unit connection cable into the wall (EB-710Ui only). If it is wired into the wall, it cannot be connected to the Touch Unit.
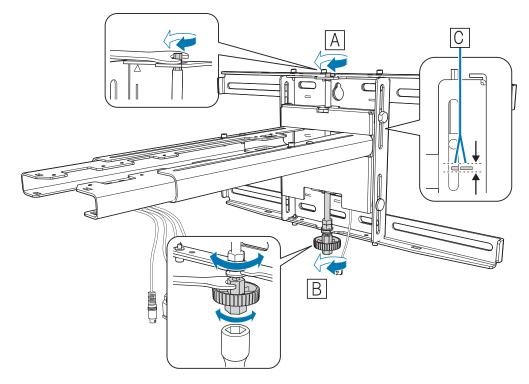> - Take care not to trap the cables between the setting plate and wall plate.

3 Secure the setting plate and the wall plate

Secure the supplied M6 screws (x3) with a commercially available No.3 cross-head screwdriver, and then lightly tighten the supplied M6 bolt (x1) with the spanner.
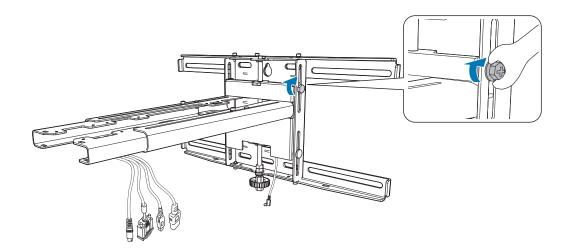

4 Adjust the vertical slide with the open-ended spanner, and align it with the standard position (C)

- Tightening the hexagonal axis at the top (A) raises the setting plate, and loosening the axis lowers it.
- Tightening the M8 bolt at the bottom (B) lowers the setting plate, and loosening the bolt raises it. (You can also use a 17 mm socket wrench.)
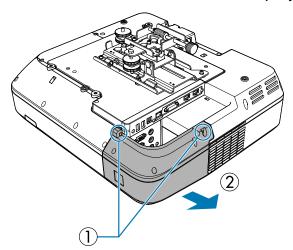
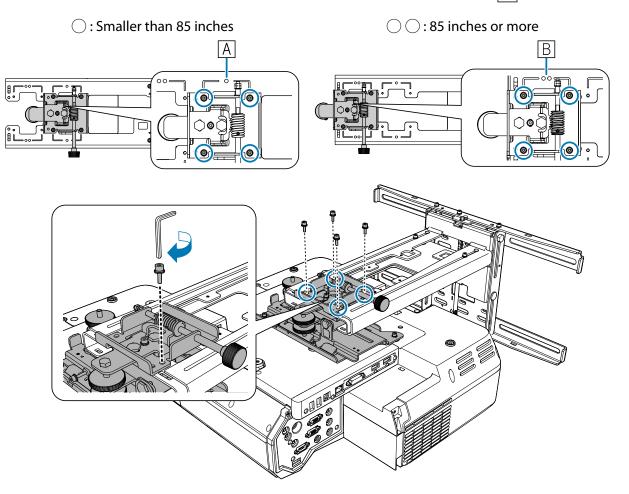**5** Tighten the M6 bolt (x1) to fix the setting plate in position

Securing the projector to the setting plate

1 Loosen the screws (x2) and remove the cable cover from the projector

2 Attach the 3-axis adjustment unit to the setting plate with the M4 x 12 mm bolts (x4) supplied

- When a projected image is smaller than 85 inches: Mount the unit at the ◯ stamp (A).

- When a projected image is 85 inches or more: Mount the unit at the ◯◯ stamp (B).

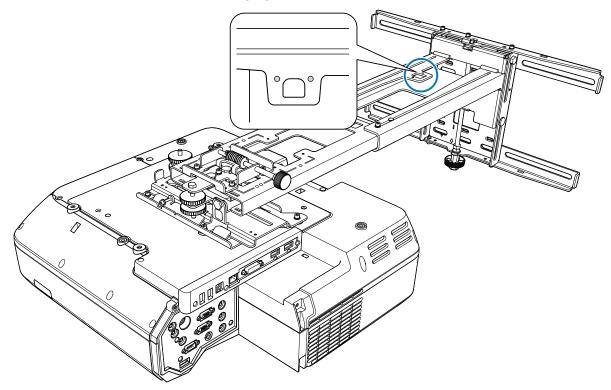◯ : Smaller than 85 inches   ◯ ◯ : 85 inches or more
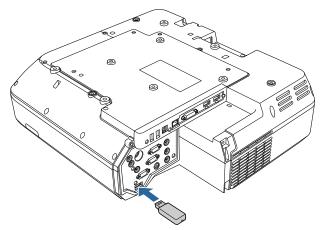
3 Connect the cables to the projector

☛ "Connecting Devices"

Connect the power cord last.

Use commercially available M4 screws to secure peripheral devices and accessories such as external tuners to the screw holes in the following figure.

Install the optional wireless LAN module in the wireless LAN unit module slot.

Adjusting the Position of the Projector

- Images are not stable immediately after turning on the projector. Wait for at least 10 minutes before adjusting the image after starting projection.
- Do not make adjustments using the projector's Keystone function. Doing so may result in a reduction in image quality.
- When setting up multiple projectors using the batch setup function, perform the batch setup before adjusting the projected image.
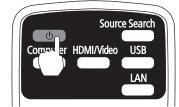
☛ "Batch Setup Function"

> 📖 When installing the Touch Unit (EB-710Ui only), if there are any obstacles at the bottom of the whiteboard such as a frame or trays, stick the infrared deflectors along the bottom edge of the whiteboard before adjusting the projector.
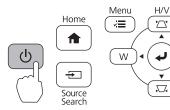>
> ☛ "Sticking the infrared deflectors (EB-710Ui only)" p.55

1 Press the [Power] button on the remote control or the control panel to turn on the projector
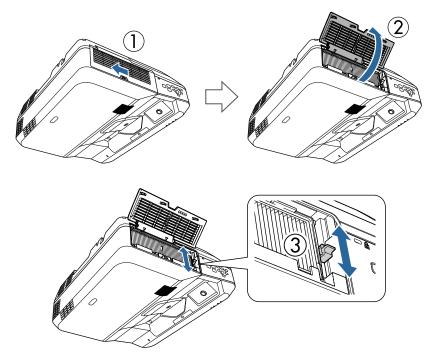
Using the Remote Control   Using the Control Panel

> ⚠️ **Caution**
>
> ─────────────────────
>
> While projecting, do not put your face or hands near the air exhaust vent, and do not place objects that may become warped or damaged by heat near the vent. Hot air from the air exhaust vent could cause burns, warping, or accidents to occur.

2 Open the air filter cover, and then adjust the focus using the focus lever
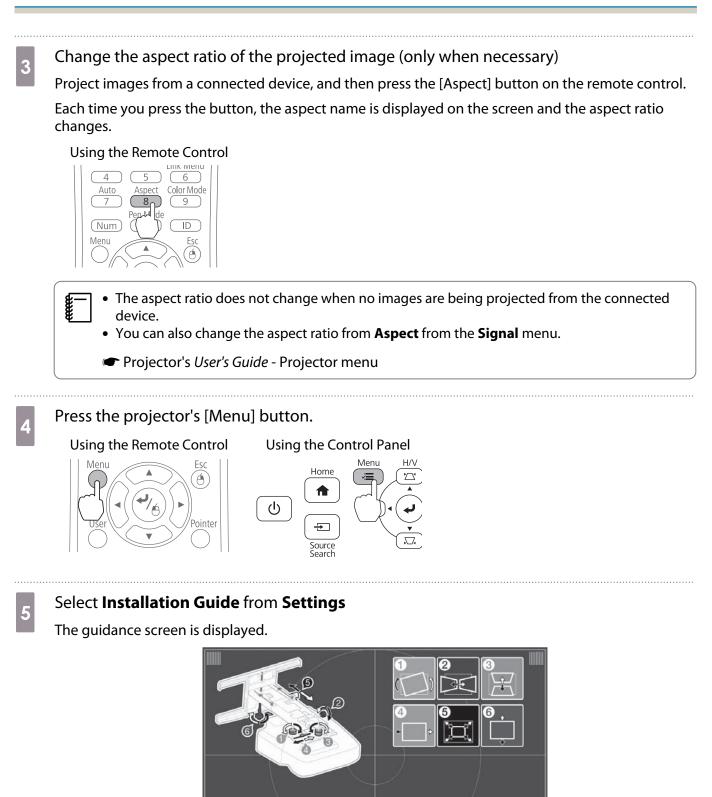

Fine-tune the focus later.

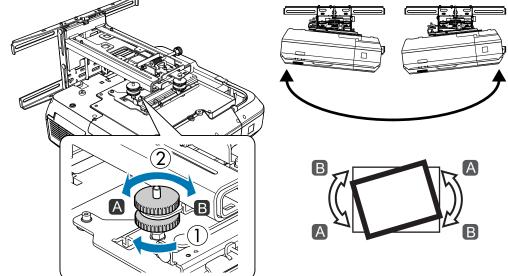After you finish making adjustments, close the air filter cover.

> 📖 • You can change the display language from **Language** on the **Extended** menu.
>
>   ☛ Projector's *User's Guide* - Projector menu
> • When you turn on the projector for the first time, the message **"Do you want to set the time?"** is displayed. If you set it later, select **No**.

3 Change the aspect ratio of the projected image (only when necessary)

Project images from a connected device, and then press the [Aspect] button on the remote control.

Each time you press the button, the aspect name is displayed on the screen and the aspect ratio changes.

Using the Remote Control

- The aspect ratio does not change when no images are being projected from the connected device.
- You can also change the aspect ratio from **Aspect** from the **Signal** menu.

☛ Projector's *User's Guide* - Projector menu

4 Press the projector's [Menu] button.

Using the Remote Control   Using the Control Panel

5 Select **Installation Guide** from **Settings**
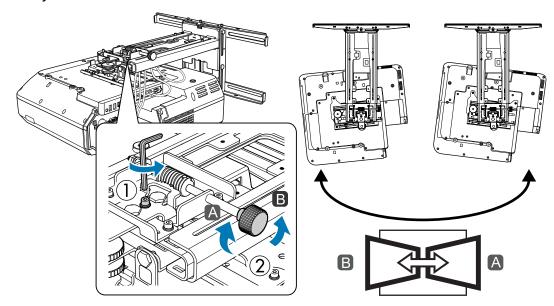
The guidance screen is displayed.

6 After loosening the adjustment dial at the bottom, adjust the horizontal roll using the adjustment dial at the top.

> Repeat steps 6 to 11 as necessary.

After you finish making adjustments, tighten the adjustment dial at the bottom.

7 Loosen the M4 screw (x1) with the hexagon wrench, and then adjust the horizontal rotation with the adjustment dial
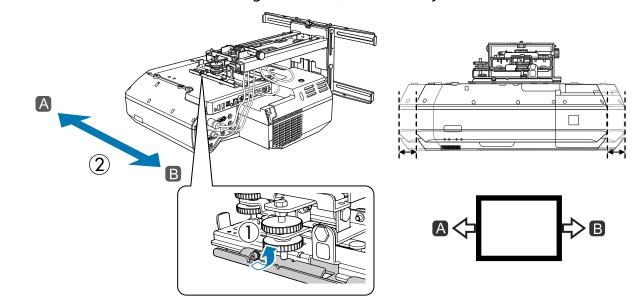
After you finish making adjustments, tighten the M4 screws that you loosened.

8 After loosening the adjustment dial at the bottom, adjust the vertical tilt using the adjustment dial at the top.
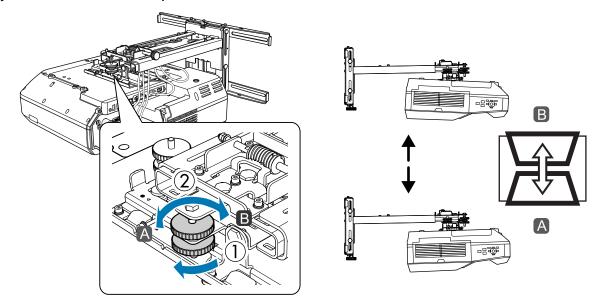
After you finish making adjustments, tighten the adjustment dial at the bottom.

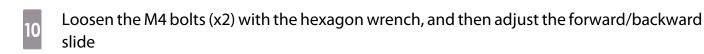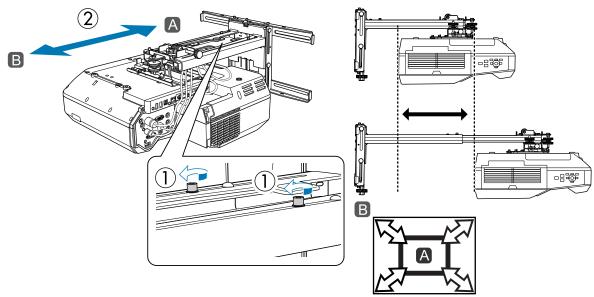**9** Loosen the M4 bolt with the hexagon wrench, and then adjust the horizontal slide

After you finish making adjustments, tighten the M4 bolt that you loosened.

10 Loosen the M4 bolts (x2) with the hexagon wrench, and then adjust the forward/backward slide
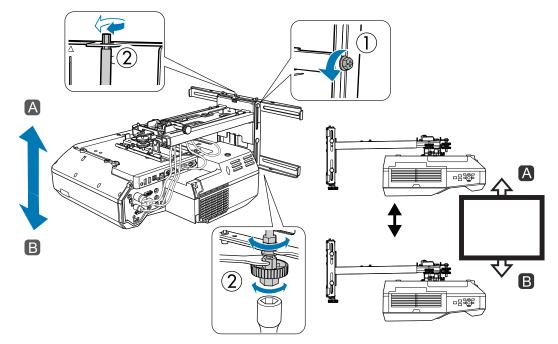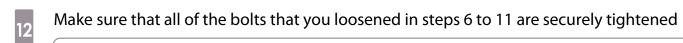
After you finish making adjustments, tighten the M4 bolts that you loosened.

11 Loosen the M6 bolt (x1) with the open-ended spanner, and then adjust the vertical slide

Adjust the vertical slide with the hexagonal axis at the top or the bottom.

- Tightening the hexagonal axis at the top raises the setting plate, and loosening the axis lowers it.
- Tightening the M8 bolt at the bottom lowers the setting plate, and loosening the bolt raises it. (You can also use a 17 mm socket wrench.)

After you finish making adjustments, tighten the M6 bolt that you loosened.
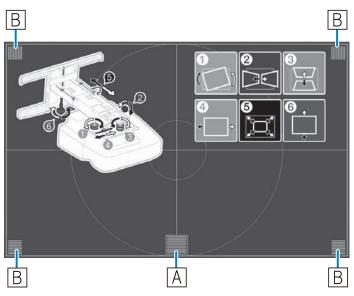
12 Make sure that all of the bolts that you loosened in steps 6 to 11 are securely tightened

> ⚠ **Warning**
>
> Tighten all bolts and screws firmly. Otherwise, the product may fall and cause personal injury or property damage.

13 Adjust the focus to match the focus in the following figure (A)

Open the air filter cover, and then adjust the focus.

When (A) is in focus, check the (B) areas. If any of the (B) areas are out of focus, adjust the focus until the (B) areas are uniform.
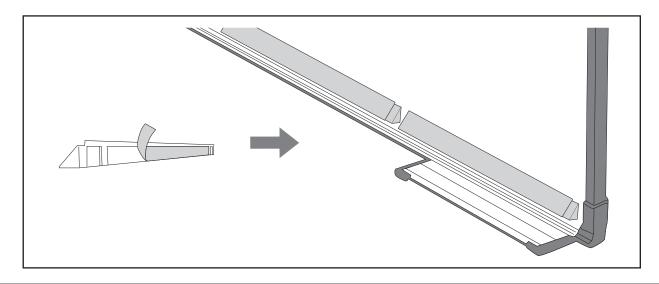
After you finish making adjustments, close the air filter cover.

14 Press the [Esc] button on the remote control or the control panel to remove the guidance screen

◼ Sticking the infrared deflectors (EB-710Ui only)

When installing the Touch Unit, if there are any obstacles at the bottom of the whiteboard such as a frame or trays, touch operations will not operate correctly. If there are any obstacles , stick the infrared deflectors along the bottom edge of the whiteboard before adjusting the position of the projector.
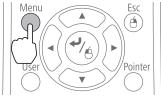
> - Do not remove an infrared deflector once it has been stuck in place. This can weaken the adhesive strength of the tape.
> - Do not stick tape or place anything on the infrared deflectors. The infrared deflector will not function correctly.
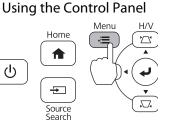
■ Arc Correction

When fine-tuning the shape of the projected image, perform Arc Correction.
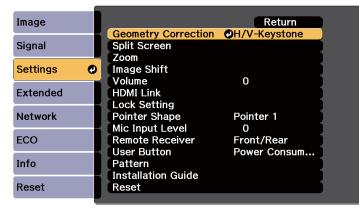
1 Turn on the projector, and then press the [Menu] button

Using the Remote Control   Using the Control Panel

**2** Select **Geometry Correction** from **Settings**

Image		Return
Signal	Geometry Correction	H/V-Keystone
Settings	Split Screen	
	Zoom	
Extended	Image Shift	
	Volume	0
Network	HDMI Link	
	Lock Setting	
ECO	Pointer Shape	Pointer 1
	Mic Input Level	0
Info	Remote Receiver	Front/Rear
	User Button	Power Consum...
Reset	Pattern	
	Installation Guide	
	Reset	

3 Select **Arc Correction**
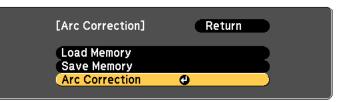
[Geometry Correction]   Return
          H/V-Keystone
          Quick Corner
          Arc Correction

4 Select **Arc Correction**

[Arc Correction]   Return
          Load Memory
          Save Memory
          Arc Correction

5 | Select the side you want to correct

[Arc Correction]

Select the area.

6 | Correct the selected side

If the message **"Cannot adjust any further."** is displayed while adjusting, you cannot adjust the shape any further in the direction indicated by the gray triangle.

[Arc Correction]

Perform the adjustment.

7 | Repeat steps 5 and 6 as needed to adjust any remaining sides

Calibrating the Pen (EB-710Ui only)

Check that adjusting the position of the projector is complete before you start calibrating the interactive pen.

☛ "Adjusting the Position of the Projector"

There are two methods available for calibrating the pen; **Auto Calibration** and **Manual Calibration**. When calibrating the pen for the first time after installing the projector, perform **Manual Calibration** for optimum calibration.

For the **Auto Calibration** method, see the projector's *User's Guide* (on the Document CD-ROM).

> When two projectors are installed in parallel and you are using the interactive function, set the multi-projection interactive features before adjusting the pen.
>
> ☛ "When two projectors are installed in parallel and you are using the interactive function (EB-710Ui only)"

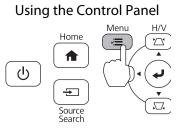**1** Turn on the projector, and then press the [Menu] button

Using the Remote Control

Using the Control Panel

2 Select **Easy Interactive Function** from **Extended**

Image	
Signal	
Settings	
Extended	
Network	
ECO	
Info	
Reset	

Return

Easy Interactive Function
Home Screen
Display
User's Logo
Projection   Front
Operation
A/V Settings
USB Type B   USB Display
Multi-Projection
Language   English
Reset
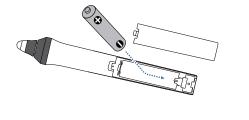
3 Select **Manual Calibration**
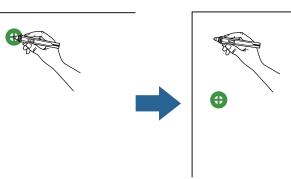
Image	
Signal	
Settings	
Extended	
Network	
ECO	
Info	
Reset	

[Easy Interactive Function]   Return

[General]
Auto Calibration
Manual Calibration
Touch Unit Setup
Pen Mode   PC Free Annot...
Hovering   Off
Advanced

[PC Interactive]
Pen Operation Mode Windows/Mac...
Enable Right Click Off
Advanced

4 Check that the screen is in focus, and then select **Yes**

[Manual Calibration]

Adjust the focus so that the characters are displayed clearly.

Touch each mark shown on the screen with the pen.
Continue until you have touched all marks up to the final mark shown on the lower right.
Calibration starts when preparations are complete. Do you want to continue?

Yes ↵   No

A green dot is displayed at the top left of the projection screen.

5 Touch the center of the dot with the pen tip of the interactive pen

The dot disappears and moves to the next position.

Make sure you touch the center of the dot. Otherwise, it may not be positioned correctly.

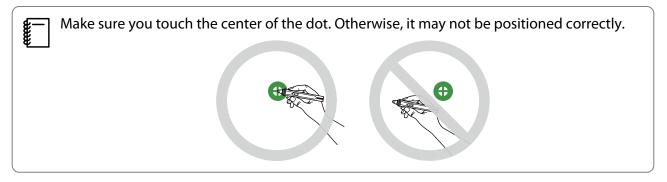**6** Repeat step 5 until all of the dots disappear

The dot appears at the top left first and then moves towards the bottom right.
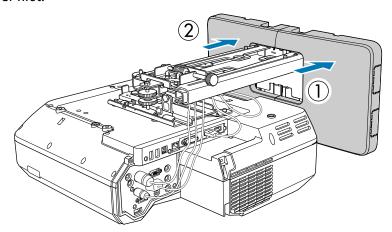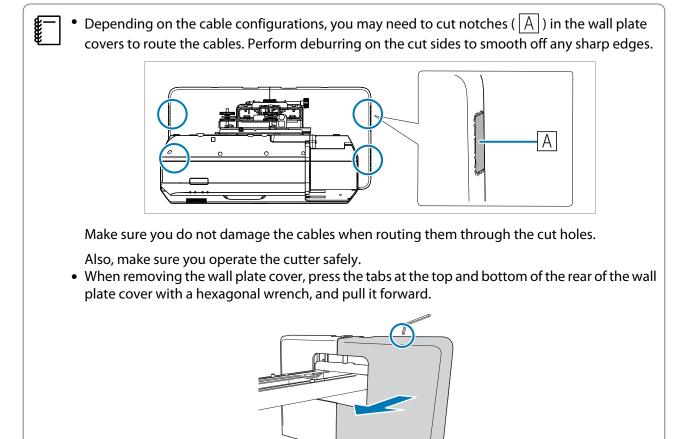
When all of the dots disappear, calibration is complete.

- Check that there are no obstacles between the interactive pen and the Interactive pen receiver (A).

- If you touch the wrong position, press the [Esc] button on the remote control to return to the previous dot.
- To cancel calibration, hold down the [Esc] button for two seconds.
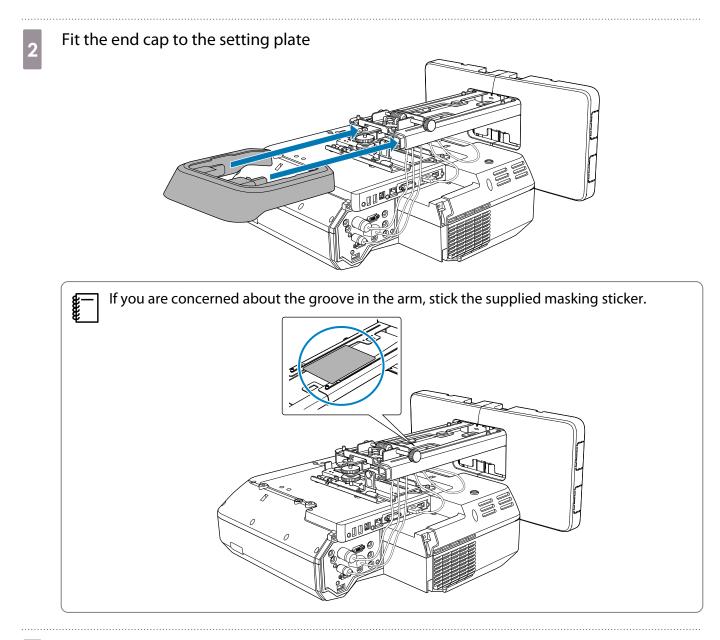
Attaching the Covers
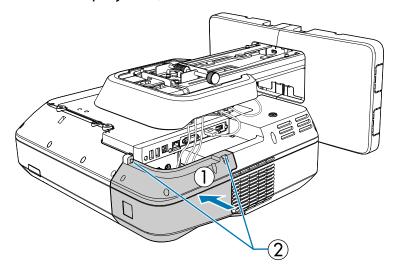
1 Attach the wall plate covers

Install the right cover first.

> • Depending on the cable configurations, you may need to cut notches (A) in the wall plate covers to route the cables. Perform deburring on the cut sides to smooth off any sharp edges.
>
>
>
> Make sure you do not damage the cables when routing them through the cut holes.
>
> Also, make sure you operate the cutter safely.
> • When removing the wall plate cover, press the tabs at the top and bottom of the rear of the wall plate cover with a hexagonal wrench, and pull it forward.
>
>

2 Fit the end cap to the setting plate

> If you are concerned about the groove in the arm, stick the supplied masking sticker.

3 Attach the cable cover to the projector, and then secure it with the screws (x2)

> ⚠️ **Caution**
>
> Only a specialist should remove or reinstall the projector, including for maintenance and repairs. See the projector's *User's Guide* for instructions on maintenance and repairs.

> ⚠️ **Warning**
>
> - Never loosen the bolts and nuts after installation. Confirm that the screws have not become loose on a regular basis. If you find any loose screws, tighten them firmly. Otherwise, the product may fall and cause personal injury or property damage.
> - Do not hang on this product or hang a heavy object on this product. If this product falls, it could cause death or personal injury.

⭕ Installing the Touch Unit (EB-710Ui only)

Check that the following procedures have been completed before installing the Touch Unit.

- Installing the Projector (☞ p.37)
- Adjusting the Position of the Projector (☞ p.49)
- Calibrating the Interactive Pen (☞ p.58)

The procedure differs depending on where the Touch Unit is to be installed.

- When installing the Touch Unit outside the whiteboard (using the Touch Unit Bracket) (☞ p.65)
- When installing the Touch Unit on the whiteboard (without using the Touch Unit Bracket) (☞ p.89)

When installing the Touch Unit outside the whiteboard (using the Touch Unit Bracket)
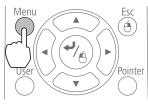
▨ Installation Procedure

Install the Touch Unit outside the whiteboard using the Touch Unit Bracket and connect it to the projector.

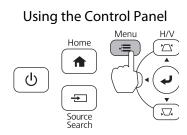Check that the screen is parallel to the surface on which the Touch Unit is installed.

> ⚠️ **Caution**
>
> Only connect the projector to the EB-710Ui. Do not connect it to any other Touch Units or devices.

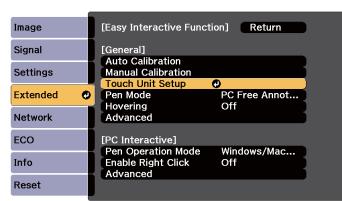**1** Turn on the projector, and then press the [Menu] button

Using the Remote Control   Using the Control Panel

2 Select **Easy Interactive Function** from **Extended**

3 Select **Touch Unit Setup**

Image	[Easy Interactive Function] Return
Signal	[General]
Settings	Auto Calibration
	Manual Calibration
Extended	Touch Unit Setup
	Pen Mode PC Free Annot...
Network	Hovering Off
	Advanced
ECO	[PC Interactive]
Info	Pen Operation Mode Windows/Mac...
	Enable Right Click Off
Reset	Advanced

4 Select **Installation Pattern**

Image	[General] Return
Signal	[Touch Unit Setup]
Settings	Installation Pattern
	Power Off
Extended	Angle Adjustment
Network	Touch Calibration
ECO	
Info	
Reset	

The installation pattern is displayed on the projected image.

[Installation Pattern]

Notes on Installing the Touch Unit:
· Make sure there is at least 25 mm between the Touch Unit and the top of the projection area.
· Align the center of the Touch Unit with the center of the Installation Pattern.
· After installing the Touch Unit, set "Power" to "On" from the menu, and then perform Angle Adjustment.

[Esc] /[ ]:Return   [Menu]:Exit

5 Loosen the screw at the bottom of the dial cover using a commercially available No.2 cross-head screwdriver
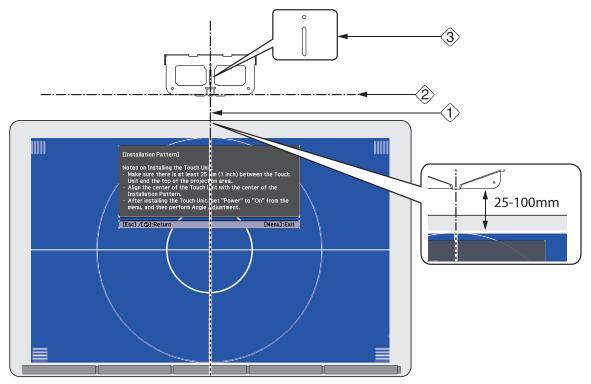
66

6 Slide the dial cover down to remove it

7 Determine the installation position for the Touch Unit Bracket

We recommend marking the following installation positions (positions of the screw holes) to make installation easier.
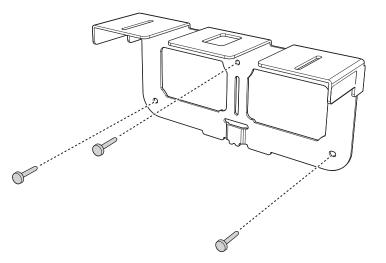
(①): Center line of installation pattern. Align with the center line (③) of the installation plate.

(②): 25 to 100 mm from the top edge (white line) of the projected image. Align with the bottom line of the installation plate.
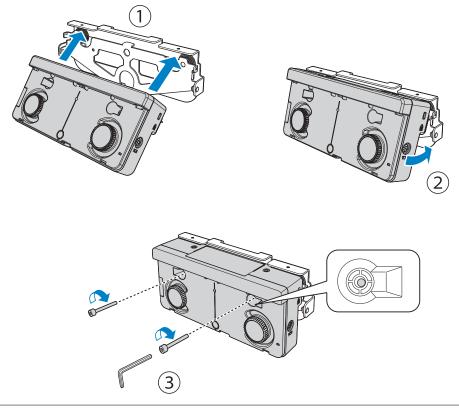
8 Install the installation plate using three M4 commercially available 4 mm wood screws, or three M4 anchor bolts.
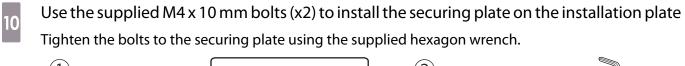
9 Attach the securing plate to the rear of the Touch Unit with the two M4 x 25 mm bolts supplied
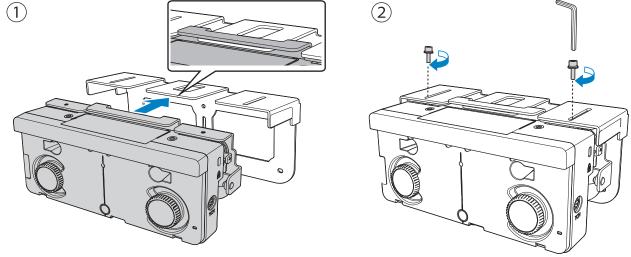
Adjust the position so that the two screw holes of the Touch Unit and the two screw holes of the securing plate are aligned. Tighten the bolts to the securing plate using the supplied hexagon wrench.
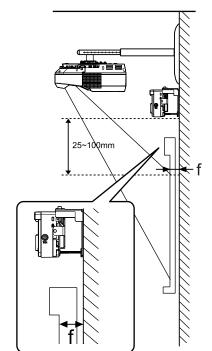
> ⚠ **Caution**
>
> ──────────────────────────────
>
> There is a powerful magnet on the rear of the Touch Unit. Do not trap your hand between the Touch Unit and the securing plate.

10 Use the supplied M4 x 10 mm bolts (x2) to install the securing plate on the installation plate

Tighten the bolts to the securing plate using the supplied hexagon wrench.

① ②
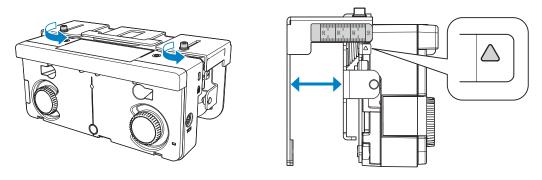
11 Measure the distance from the wall to the surface of the screen (f)

25~100mm

f

f

12 Adjust the height of the left and right according to the value (f) measured in step 11

Loosen the two screws and move the Touch Unit back and forth to adjust the left and right so that the arrow aligns with the value on the scale the same as (f). When you have finished adjusting, tighten the two screws.
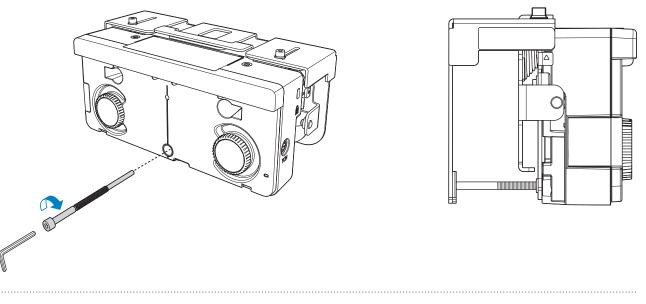
13 Secure the Touch Unit and the installation plate with the hexagon socket head cap bolt
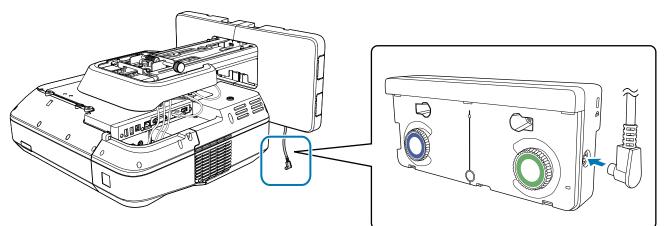
The bolt used varies according to the distance (f) from the wall to the surface of the screen measured in step 11. Tighten the bolt to the installation plate using the supplied hexagon wrench.

When (f) = 20 to 35 mm: M4 x 55 mm bolt

When (f) = 35 to 50 mm: M4 x 70 mm bolt
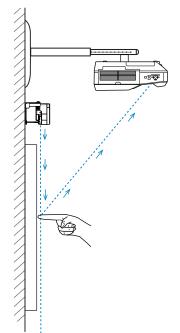
14 Connect the Touch Unit connection cable that is connected to the projector to the TCH port on the Touch Unit
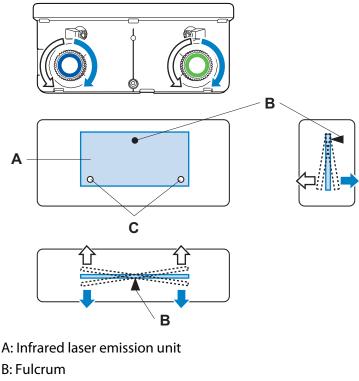
Angle Adjustment

An infrared laser in the shape of a curtain is emitted from the Touch Unit. The infrared laser reflects off your finger when touched to the whiteboard thereby detecting the finger position allowing the projector's infrared camera to recognize the position being reflected.
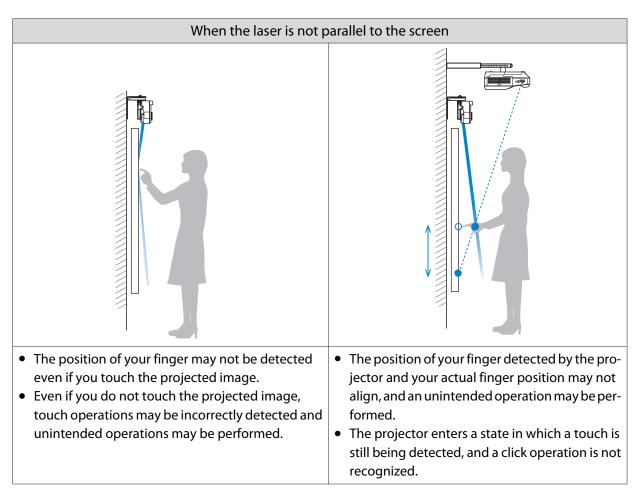
Adjust the angle of the laser light coming from the Touch Unit so that the projector can correctly detect the position of your finger.

A: Infrared laser emission unit

B: Fulcrum
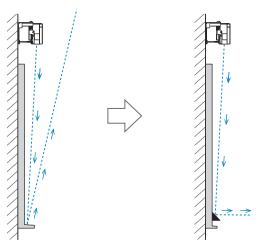
C: Vertical movable point

If the laser is not emitted parallel to the screen, the projector will not detect touch operations or the position of your finger correctly.

When the laser is not parallel to the screen	
• The position of your finger may not be detected even if you touch the projected image. • Even if you do not touch the projected image, touch operations may be incorrectly detected and unintended operations may be performed.	• The position of your finger detected by the projector and your actual finger position may not align, and an unintended operation may be performed. • The projector enters a state in which a touch is still being detected, and a click operation is not recognized.

If there are any obstacles at the bottom of the whiteboard such as a frame or trays, the laser will be reflected and the location of your finger will not be detected correctly. Stick infrared deflectors on the frame and the trays to prevent them from reflecting the laser.

☛"Sticking the infrared deflectors (EB-710Ui only)"

• When two projectors are installed in parallel and you want to use the interactive function, set the multi-projection interactive features in advance.

☛"When two projectors are installed in parallel and you are using the interactive function (EB-710Ui only)"

• Before adjusting the angle, make sure that interactive pen calibration is complete.

☛ "Calibrating the Pen (EB-710Ui only)"

1 Select **Easy Interactive Function** from the projector's **Extended** menu

2 Select **Touch Unit Setup**

3 Set **Power** to **On**

The Touch Unit power turns on and the indicator is lit blue.

> When **Power** is set to **On**, the next time the projector is turned on, the Touch Unit automatically turns on.

4 Select **Angle Adjustment**

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5 Select **Installing the Touch Unit with the bracket**


```
[Angle Adjustment]

 Installing the Touch Unit without the bracket
 Installing the Touch Unit with the bracket    ⏎

When you use the included Touch Unit Bracket to
install the Touch Unit, select "Installing the
Touch Unit with the bracket".

            Touch Unit Bracket
```

The following screen is displayed.


```
[Angle Adjustment]         Preparation

Step:
1. Turn the Adjustment Screw clockwise until the screw stops.
2. Turn the Adjustment Dials counterclockwise until the dials
   stop.

Attention:
 · Make sure "Auto Calibration" or "Manual Calibration" has
   been done.

Begin Angle Adjustment when these steps are completed.
Then proceed to the next step.

   Adjustment Screw                Adjustment Dial
```

6 Turn the adjustment screw for the Touch Unit fully clockwise using the hexagon wrench supplied with the setting plate

7 Turn the adjustment dials on the Touch Unit counterclockwise until you hear a clicking sound

When you hear a clicking sound coming from the adjustment dial, stop turning, and then press the [↵] button on the remote control. The following screen is displayed.

8 Attach the supplied two markers to the marker positions (⚔) (⚔) on the projection screen

Match the positions so that the crosses (B) for the markers overlap with the points (A) for the (⚔) (⚔).

- Magnetic screens: Place the bottom of the markers onto the screen.
- Non-magnetic screens: Use the supplied tape to secure the markers. Attach the tape so that the either end of marker does not come loose off the screen.

Correct	Incorrect

> Do not place anything other than the markers near the projected image during angle adjustment. If other objects are on the projected image, angle adjustment may not be performed correctly.

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9   Turn the adjustment screw on the Touch Unit counterclockwise to display the pointers (🔵) (🟢)

Adjusting the angle of the Touch Unit using the adjustment screw

Before adjustment   After adjustment

When the pointers overlap in the correct position, the colors become solid (🔵) (🟢).

Turn the adjustment screw clockwise to move the pointer down as needed.

> • When turning the adjustment screw, make sure shadows from your arm or body do not overlap with the markers.
> • If the pointers are not solid colors (◯) (◯), check if the Touch Unit and screen are parallel. Adjust the Touch Unit Bracket so that the Touch Unit and screen are parallel.

10 When the pointers on the left and right become solid colors (●) (●), press the [↵] button on the remote control

The following screen is displayed.

11 Turn the adjustment dials on the Touch Unit to move the pointers (⬭) (⬭) so that they overlap with the target (⬭) (⬭) of the same color on either side

When you turn the adjustment dial clockwise, the pointer moves diagonally up towards the center of the projected image.

When you turn the adjustment dial counterclockwise, the pointer moves diagonally down away from the center of the projected image.

When the pointers overlap in the correct position, the colors become solid (🔵) (🟢).
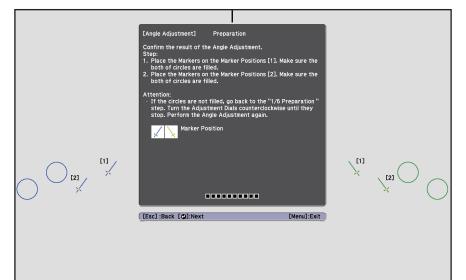
> • If you hear a clicking sound from the dial, the pointer does not move any further.
> • When turning the dials, make sure shadows from your arm or body do not overlap with the markers.
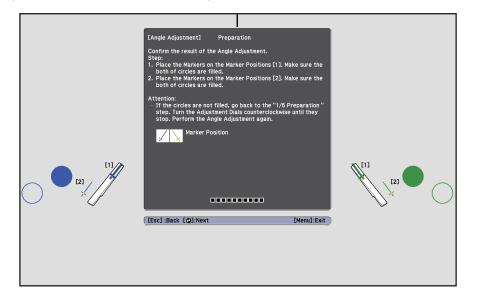
12 When the pointers on the left and right become solid colors (🔵) (🟢), press the [↵] button on the remote control

The following screen is displayed.

13 Place the markers at the top marker positions [1] (⟋) (⟍)
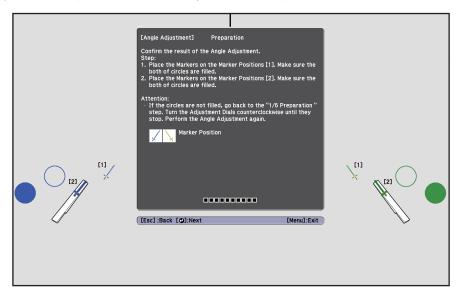
When angle adjustment is performed correctly, the upper pointers become solid colors (🔵) (🟢).

If the upper pointers do not become solid colors (🔵) (🟢), start again from step 1.

14 Place the markers at the bottom marker positions [2] ( ) ( )

When angle adjustment is performed correctly, the bottom pointers become solid colors ( ) ( ).

If the bottom pointers do not become solid colors ( ) ( ), start again from step 4.

15 When you have finished checking, remove the markers, and then press the [↵] button on the remote control

The following screen is displayed.

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16 Trace the dots (●) with your finger

When angle adjustment is performed correctly, the dots you have traced disappear.

> 📝 Touch operations may not perform correctly if you are wearing artificial nails or nail polish, or if your fingers are obstructed by bandages and so on.

When all of the dots have disappeared, select **Complete** and press the [↵] button on the remote control. Then, go to step 17.

If some dots remain as shown in the following figure, check the following points.

If the dots on the left and right do not disappear: Remove any obstacles that are on the left and right of the projection screen. After removing any obstacles, press the [⌃] or [⌄] button on the remote control, and then perform step 16 again. Perform additional adjustment if dots still remain even after performing this step, or if there are obstacles that cannot be removed such as whiteboard trays or frames.

☛"Additional adjustments"
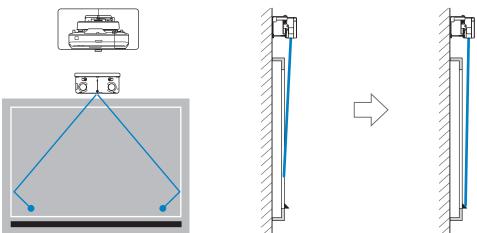
17 Attach the dial cover, and then tighten the screw at the bottom of the dial cover

When you have finished making adjustments, perform a touch calibration.

☛"Touch Calibration"

> Make sure you store the markers in a safe place.
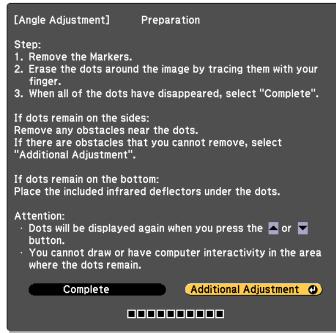
Additional adjustments

Perform additional adjustments if the dots on the left and right remain after adjusting the angle.
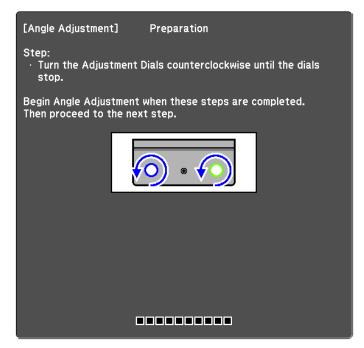
If the laser crosses the frame of the screen, it reflects within the screen and touch operations cannot be performed correctly. Additional adjustments adjust the height of the laser beam so that it does not cross the frame on the left and right.

1 Select **Additional Adjustment**

```
[Angle Adjustment]      Preparation

Step:
1. Remove the Markers.
2. Erase the dots around the image by tracing them with your
   finger.
3. When all of the dots have disappeared, select "Complete".

If dots remain on the sides:
Remove any obstacles near the dots.
If there are obstacles that you cannot remove, select
"Additional Adjustment".

If dots remain on the bottom:
Place the included infrared deflectors under the dots.

Attention:
· Dots will be displayed again when you press the ▲ or ▼
  button.
· You cannot draw or have computer interactivity in the area
  where the dots remain.

        Complete              Additional Adjustment
             □□□□□□□□□□
```

The following screen is displayed.

```
[Angle Adjustment]      Preparation

Step:
· Turn the Adjustment Dials counterclockwise until the dials
  stop.

Begin Angle Adjustment when these steps are completed.
Then proceed to the next step.




             □□□□□□□□□□
```

After this, adjust using the same procedure for angle adjustment from step 11. Follow the on-screen instructions to make adjustments.

☛"Angle Adjustment" p.71

When you have finished making adjustments, perform a touch calibration.

☛"Touch Calibration" p.86

> Make sure you store the markers in a safe place.

▣ Touch Calibration

Perform touch calibration so that the projector can recognize touch operations precisely.
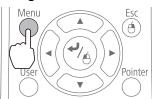
> 📓 When two projectors are installed in parallel and you are using the interactive function, check the following before performing touch calibration.
>
> • The multi-projection interactive features are set
>
> ☛ "When two projectors are installed in parallel and you are using the interactive function (EB-710Ui only)" p.101
>
> • Both projectors and the Touch Unit are turned on
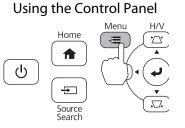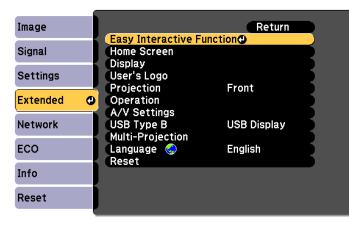
1 Press the projector's [Menu] button

Using the Remote Control   Using the Control Panel

2 Select **Easy Interactive Function** from **Extended**

3 Select **Touch Unit Setup**

4 Select **Touch Calibration**

Image	[General]	Return
Signal	[Touch Unit Setup]	
Settings	Installation Pattern	
	Power	On
Extended	Angle Adjustment	
	Touch Calibration	
Network		
ECO		
Info		
Reset		
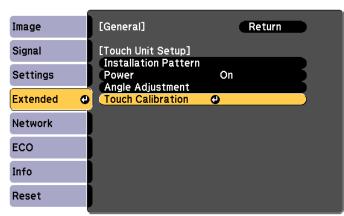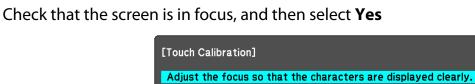
The focus adjustment message is displayed.

5 Check that the screen is in focus, and then select **Yes**

[Touch Calibration]

Adjust the focus so that the characters are displayed clearly.

Attention: Do not place hands or other obstacles on the screen during adjustment.
· Touch each mark shown on the screen with your finger.
· Keep touching the marks until they move.
· Continue until you have touched all of the marks up to the final mark at the bottom-right.
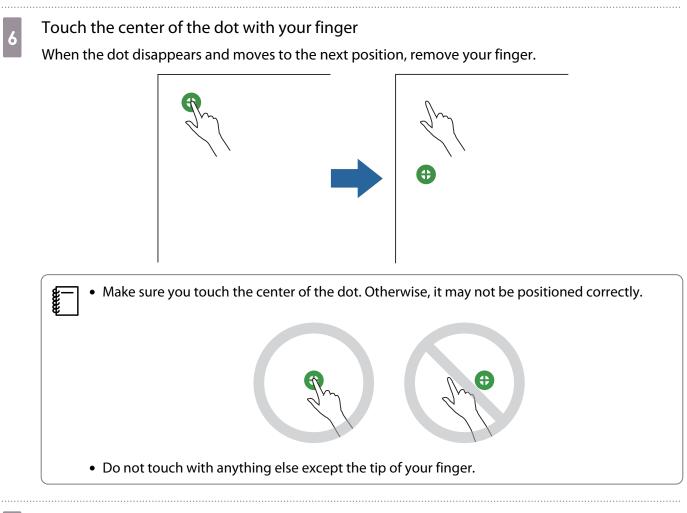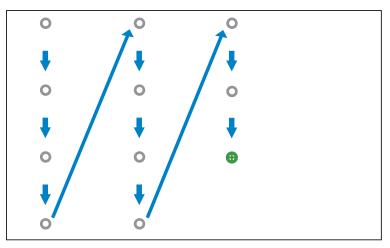
Calibration starts when preparations are complete.
Do you want to continue?

Yes   No

A dot is displayed at the top left of the projection screen.

6 Touch the center of the dot with your finger

When the dot disappears and moves to the next position, remove your finger.

> 📝
> - Make sure you touch the center of the dot. Otherwise, it may not be positioned correctly.
>
>
>
> - Do not touch with anything else except the tip of your finger.

7 Repeat step 6 until all of the dots disappear

When all of the dots disappear, touch calibration is complete.

> 📝
> - If you touch the wrong position, press the [Esc] button on the remote control or control panel. This returns you to the previous dot. You cannot go back by two dots.
> - To cancel touch calibration, hold down the [Esc] button for two seconds.
> - It may take several seconds after all of the dots have disappeared until touch calibration is complete.

When installing the Touch Unit on the whiteboard (without using the Touch Unit Bracket)

About installation

- There are magnets built into the back of the Touch Unit. Normally, the Touch Unit should be installed by attaching the magnets to the screen.
- If the magnets cannot be attached to a screen, use commercially available M4 screws (x3).
- Attach the Touch Unit to the same level surface as the screen surface.

▢ Installation Procedure
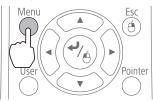
Install the Touch Unit, and then connect to the projector.

> ### ⚠ Caution
>
> Only connect the Touch Unit to the EB-710Ui. Do not connect it to any other projectors or devices.
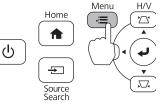
1 Turn on the projector, and then press the [Menu] button

Using the Remote Control   Using the Control Panel

2 Select **Easy Interactive Function** from **Extended**

3 Select **Touch Unit Setup**

Image	[Easy Interactive Function]　Return
Signal	[General]
Settings	Auto Calibration
	Manual Calibration
Extended	Touch Unit Setup
	Pen Mode　　　　　PC Free Annot...
Network	Hovering　　　　　Off
	Advanced
ECO	[PC Interactive]
Info	Pen Operation Mode　Windows/Mac...
	Enable Right Click　Off
Reset	Advanced

4 Select **Installation Pattern**

Image	[General]　　　　　Return
Signal	[Touch Unit Setup]
Settings	Installation Pattern
	Power　　　　　Off
Extended	Angle Adjustment
	Touch Calibration
Network	
ECO	
Info	
Reset	

The installation pattern is displayed on the projected image.

[Installation Pattern]

Notes on Installing the Touch Unit:
· Make sure there is at least 25 mm between the Touch Unit and the top of the projection area.
· Align the center of the Touch Unit with the center of the Installation Pattern.
· After installing the Touch Unit, set "Power" to "On" from the menu, and then perform Angle Adjustment.

[Esc] /[⏎]:Return　　　　　[Menu]:Exit

5 Loosen the screw at the bottom of the dial cover using a commercially available No.2 cross-head screwdriver

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6 Slide the dial cover down to remove it
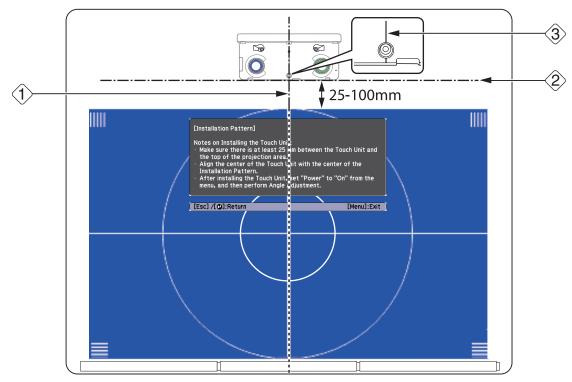
7 Determine the installation position for the Touch Unit

We recommend marking the following installation positions to make installation easier.

(①): Center line of installation pattern. Align with the center line of the Touch Unit (③).

(②): 25 to 100 mm from the top edge of the projected image. Align with the bottom edge of the Touch Unit.
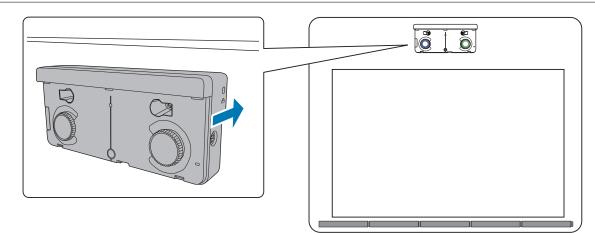
8 Secure the Touch Unit
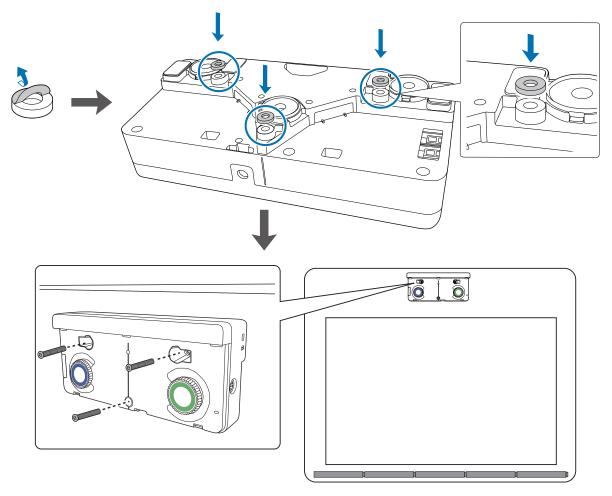
- Magnetic screens: Place the back of the Touch Unit on the screen surface, and then secure.

> ### ⚠ Caution
>
> When installing the Touch Unit on a magnetic surface, be careful not to trap your fingers or any other part of your body between the magnets and the installation surface. Powerful magnets are used which can cause injury if you trap your fingers.
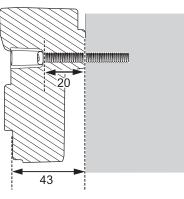
- Non-magnetic screens: Attach spacers and secure with M4 screws (x3).
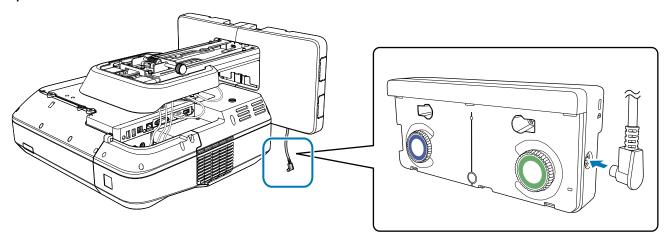
[Unit: mm]

Screw hole cross-section

9   Connect the Touch Unit connection cable that is connected to the projector to the TCH port on the Touch Unit

Angle Adjustment

This section explains how to adjust the angle of the Touch Unit. For details on angle adjustment, see .

> • When two projectors are installed in parallel and you want to use the interactive function, set the multi-projection interactive features in advance.
>
> ☛"Multi-Projection settings"
> • Before adjusting the angle, make sure that interactive pen calibration is complete.
>
> ☛ "Calibrating the Pen (EB-710Ui only)"

1 Select **Easy Interactive Function** from the projector's **Extended** menu

2 Select **Touch Unit Setup**

3 Set **Power** to **On**

The Touch Unit power turns on and the indicator is lit blue.

When **Power** is set to **On**, the next time the projector is turned on, the Touch Unit automatically turns on.

4 Select **Angle Adjustment**

5 Select **Installing the Touch Unit without the bracket**

The following screen is displayed.

The next procedures are the same as for adjusting the angle (after step 11) when installing outside the whiteboard using the bracket.
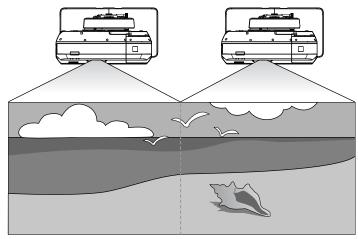
☛"Angle Adjustment" p.71

> • When installing the Touch Unit using magnets, stick labels on the tabs on the sides of the Touch Unit. Match the center of the labels with the tabs.
>
>
>
> • If the Touch Unit moves out of position, use the labels to reinstall it at the correct position.

When you have finished making adjustments, perform a touch calibration.

☛"Touch Calibration" p.86

Installing Multiple Projectors in Parallel (Multi-Projection)

By installing multiple projectors in parallel, you can project one, large image (Multi-Projection).

Check the following when installing multiple projectors in parallel. (☛"Installation Work Flow" p.11)

> When projecting the screen from one computer, you need to make the following preparations. See the documentation provided with your computer to check how to make settings.
>
> * Connect a cable from one computer to each projector (the computer needs two image output ports)
> * Set to output images to multiple screens from one computer
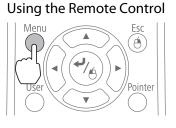
Multi-Projection settings
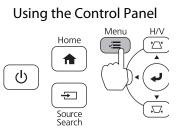
Follow the steps below when using the Multi-Projection function.

1 Setting the Projector ID (☛ p.97)

2 Adjusting the Image in Multi-Projection (☛ p.100)

Setting the Projector ID

1 Turn on the projector, and then press the [Menu] button

Using the Remote Control   Using the Control Panel
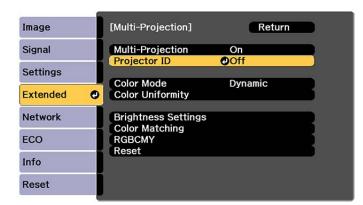
2 Select **Multi-Projection** from **Extended**

3

Select **Projector ID**

Image	[Multi-Projection]	Return
Signal	Multi-Projection	On
Settings	Projector ID	⏎Off
Extended ⏎	Color Mode	Dynamic
	Color Uniformity	
Network	Brightness Settings	
ECO	Color Matching	
	RGBCMY	
Info	Reset	
Reset		

4
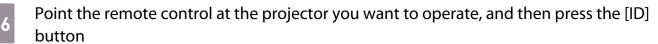
Select the ID number for the target projector
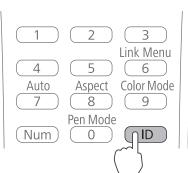
[Projector ID] Return ⏎

Off
1
2
3
4
5
6
7
8
9

5
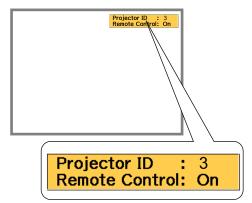
Press the [Menu] button to close the menu

Repeat steps 1 to 5 for the remaining projectors.

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6 Point the remote control at the projector you want to operate, and then press the [ID] button
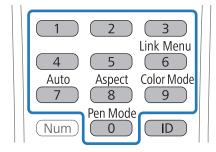
The ID set for the projector is displayed on the projected screen. The display turns off after approximately three seconds.

Projector ID   : 3
Remote Control: On
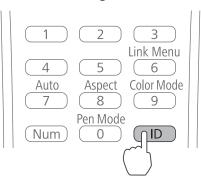
7 While holding down the [ID] button, press the button with the same number as the projector ID for the projector you want to operate

Remote control operations for the projector with the selected ID are enabled.

8 Press the [ID] button and check the ID setting

The following is displayed.

- Remote Control: On is displayed: You can operate the projector currently being operated.
- Remote Control: Off is displayed: You cannot operate the projector with the remote control. Repeat the procedure above to enable remote control operations.

> - Each time the projector is turned on, you need to select the projector ID for the projector you want to operate. When the projector is turned on, the ID set for the remote control is 0.
> - When **Projector ID** is set to **Off**, you can operate the projector using the remote control regardless of the ID setting selected using the remote control.
> - When the remote control ID is set to 0, you can operate all of the projectors regardless of the projector ID setting.

Adjusting the Image in Multi-Projection

- Check that projector position adjustment is complete

  ☛"Adjusting the Position of the Projector" p.49
- If you are concerned about the alignment between images being projected in multi-projection, try performing Arc Correction.

  ☛"Arc Correction" p.57
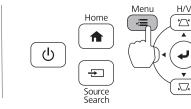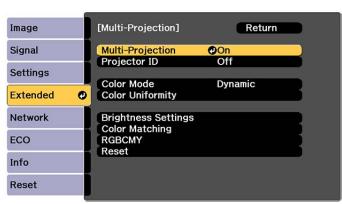
1 Turn on the projector, and then press the [Menu] button

Using the Remote Control   Using the Control Panel

2 Select **Multi-Projection** from **Extended**

3 Set **Multi-Projection** to **On**

Image		[Multi-Projection]	Return
Signal		Multi-Projection	On
Settings		Projector ID	Off
Extended		Color Mode	Dynamic
		Color Uniformity	
Network		Brightness Settings	
ECO		Color Matching	
Info		RGBCMY	
		Reset	
Reset			

Press the [Esc] button to return to the previous screen.

4 Make each setting

Color Mode	Set the same item for each projector.
Color Uniformity	Adjust the color balance for the entire screen (only when necessary).
Brightness Settings	If the brightness of the light source for each projector is different, adjust the brightness of the light source. Adjust the darkest projector as the standard.
Color Matching	Adjust the color and brightness in gradations from all white to all black.

When two projectors are installed in parallel and you are using the interactive function (EB-710Ui only)

When two projectors are installed in parallel and you want to use the interactive function, after adjusting the image for multi-projection, make the following settings. Make the settings for each projector in turn. You cannot set the two projectors at the same time.

1 Setting Projector Synchronization (☛)

2 Setting Multi-Projection Interactive (☛)

> When two images overlap, the interactive function does not work correctly.

Setting the projectors in sync
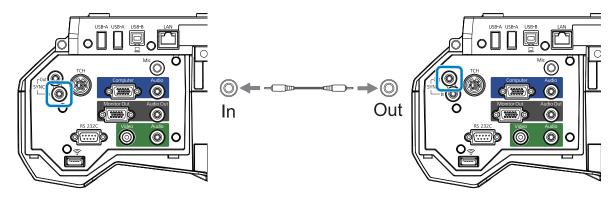
When using the interactive function for multi-projection, interactive pen operations become unstable due to infrared interference. Follow the steps below to stabilize operations for the interactive pen. Check that installation is complete for both projectors before making settings.

☛ "Installing the Setting Plate"
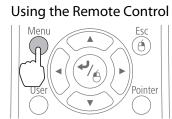
1 Connect the SYNC ports for each projector by using the optional remote control cable set (ELPKC28)

When the projectors are connected by cable, operations for the interactive pen stabilize.
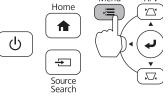
The SYNC port has an IN and OUT socket. When you connect one end of the remote control cable set to an IN socket, connect the other end to an OUT socket.

In   Out

2 Turn on the projector, and then press the [Menu] button

Using the Remote Control   Using the Control Panel

3 Select **Easy Interactive Function** from **Extended**

Image		Return
Signal	Easy Interactive Function	
	Home Screen	
Settings	Display	
	User's Logo	
Extended	Projection	Front
	Operation	
Network	A/V Settings	
	USB Type B	USB Display
ECO	Multi-Projection	
	Language	English
Info	Reset	
Reset		

<table>
<tr><td>**4**</td><td>Select **Advanced**</td></tr>
</table>

Image	[Easy Interactive Function]	Return
Signal	[General]	
Settings	Auto Calibration Manual Calibration Touch Unit Setup	
Extended	Pen Mode Hovering	PC Free Annot... Off
Network	Advanced	
ECO	[PC Interactive]	
Info	Pen Operation Mode Enable Right Click	Windows/Mac... Off
Reset	Advanced	

5 Set **Sync of Projectors** to **Wired**

Image	[General]	Return
Signal	[Advanced]	
Settings	Distance of Projectors Sync of Projectors	Mode 1 Wired
Extended	Multi-Projection Wired Sync Mode Preset Pen Thickness Eraser Size Color Palette	Off Mode 1 Normal Normal Palette 1
Network		
ECO		
Info	[PC Free Annotation] Pen Button Function	Eraser
Reset	Confirm Clear Screen	Off
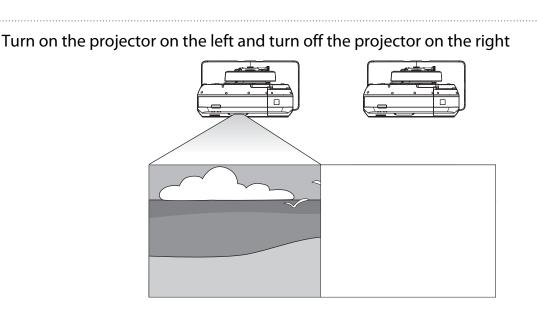
Setting Multi-Projection Interactive

Before setting Multi-Projection Interactive, check that you have finished adjusting the image for multi-projection. If you perform image adjustment after setting interactive, the pen position may not be correct.

☞ "Adjusting the Image in Multi-Projection"
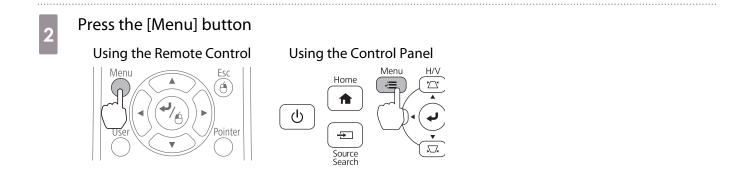
The procedure differs depending on whether or not the Touch Unit is used.

When not using the Touch Unit

1 Turn on the projector on the left and turn off the projector on the right

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2 Press the [Menu] button

Using the Remote Control

Menu · Esc · User · Pointer

Using the Control Panel

Home · Menu · H/V · Source Search

3 Select **Easy Interactive Function** from **Extended**

Image
Signal
Settings
Extended ↵
Network
ECO
Info
Reset

Return

Easy Interactive Function ↵
Home Screen
Display
User's Logo
Projection   Front
Operation
A/V Settings
USB Type B   USB Display
Multi-Projection
Language 🌐   English
Reset

4 Select **Advanced** from **General**

Image
Signal
Settings
Extended ↵
Network
ECO
Info
Reset

[Easy Interactive Function]   Return

[General]
Auto Calibration
Manual Calibration
Touch Unit Setup
Pen Mode   PC Free Annot...
Hovering   Off
Advanced   ↵

[PC Interactive]
Pen Operation Mode   Windows/Mac...
Enable Right Click   Off
Advanced

5 Select **Multi-Projection**

Image
Signal
Settings
Extended ↵
Network
ECO
Info
Reset

[General]   Return

[Advanced]
Distance of Projectors   Mode 1
Sync of Projectors   Infrared
Multi-Projection   ↵Off
Wired Sync Mode   Mode 1
Preset Pen Thickness   Normal
Eraser Size   Normal
Color Palette   Palette 1

[PC Free Annotation]
Pen Button Function   Eraser
Default Touch Action   Eraser
Confirm Clear Screen   Off

6 Select **Left**

[Multi-Projection]　　　　　　　Return

Off
Left
Right

Select "Left" for the projector 1.
Select "Right" for the projector 2.

1　　　　2
EPSON　　EPSON

7 Calibrate the pen (☛ p.58)

8 Turn off the projector on the left

9 Turn on the projector on the right, and perform steps 2 to 5

10 Select **Right** from **Multi-Projection**

[Multi-Projection]　　　　　　　Return

Off
Left
Right

Select "Left" for the projector 1.
Select "Right" for the projector 2.

1　　　　2
EPSON　　EPSON

11 Calibrate the pen (☛ p.58)

When using the Touch Unit (EB-710Ui only)

1 Turn on the projector on the left and turn off the projector on the right

2 Press the [Menu] button

Using the Remote Control

Using the Control Panel

3 Select **Easy Interactive Function** from **Extended**

Image
Signal
Settings
Extended
Network
ECO
Info
Reset

Return
Easy Interactive Function
Home Screen
Display
User's Logo
Projection   Front
Operation
A/V Settings
USB Type B   USB Display
Multi-Projection
Language   English
Reset

4 Select **Advanced** from **General**

[Easy Interactive Function] Return

[General]
Auto Calibration
Manual Calibration
Touch Unit Setup
Pen Mode   PC Free Annot...
Hovering   Off
Advanced

[PC Interactive]
Pen Operation Mode   Windows/Mac...
Enable Right Click   Off
Advanced

Image · Signal · Settings · Extended · Network · ECO · Info · Reset

5 Select **Multi-Projection**

[General] Return

[Advanced]
Distance of Projectors   Mode 1
Sync of Projectors   Infrared
Multi-Projection   Off
Wired Sync Mode   Mode 1
Preset Pen Thickness   Normal
Eraser Size   Normal
Color Palette   Palette 1

[PC Free Annotation]
Pen Button Function   Eraser
Default Touch Action   Eraser
Confirm Clear Screen   Off

Image · Signal · Settings · Extended · Network · ECO · Info · Reset

6 Select **Left**

[Multi-Projection] Return

Off
Left
Right

Select "Left" for the projector 1.
Select "Right" for the projector 2.

1   2

7 Calibrate the pen ()

8 Installing and adjusting the angle for the Touch Unit

The procedure differs depending on where the Touch Unit is installed.

When installing the Touch Unit outside the whiteboard (using the Touch Unit Bracket)

1 Installing the Touch Unit (☞ p.65)

2 Adjusting the Angle of Laser Diffusion (☞ p.71)

When installing the Touch Unit on the whiteboard (without using the Touch Unit Bracket)

1 Installing the Touch Unit (☞ p.89)

2 Adjusting the Angle of Laser Diffusion (☞ p.93)

9 Turn off the projector on the left

10 Turn on the projector on the right, and perform steps 2 to 5

11 Select **Right** from **Multi-Projection**

[Multi-Projection]   Return

　Off
　Left
　Right

Select "Left" for the projector 1.
Select "Right" for the projector 2.

1   2
EPSON   EPSON

12 Calibrate the pen (☞ p.58)

13 Installing and adjusting the angle for the Touch Unit

The procedure differs depending on where the Touch Unit is installed.

- When installing the Touch Unit outside the whiteboard (using the Touch Unit Bracket)

  - Installing the Touch Unit (☞ p.65)
  - Adjusting the Angle of Laser Diffusion (☞ p.71)
- When installing the Touch Unit on the whiteboard (without using the Touch Unit Bracket)

  - Installing the Touch Unit (☞ p.89)
  - Adjusting the Angle of Laser Diffusion (☞ p.93)

14 Turn on the projectors on the left and right

15   Performing touch calibration for each projector (☛ p.86)

⭕ Batch Setup Function

After making the projector's menu settings for one projector, you can copy the settings to other projectors (batch setup function). The batch setup function is only for projectors with the same model number.

Use one of the following methods.

- Setup using a USB flash drive.
- Setup by connecting the computer and projector with a USB cable.
- Setup using EasyMP Network Updater.

This guide explains the USB flash drive and the USB cable methods.

> - The following menu settings are not copied by the batch setup function.
>   Network menu settings (except for the Notifications menu and the Others menu)
> - Perform batch setup before adjusting the position of the projectors. Adjustment values for the projected image, such as Keystone, are copied by the batch setup function. If batch setup is performed after adjusting the position of the projectors, the adjustments you made may change.
> - By using the batch setup function, the registered User's Logo is copied to the other projectors. Do not register confidential information and so on as the User's Logo.

⚠️ Caution

Performing batch setup is the customers responsibility. If batch setup fails due to a power failure, communication error, and so on, the customer is responsible for any repair costs incurred.

Setup Using a USB flash drive

This section explains how to perform batch setup using a USB flash drive.

> - Use a FAT format USB flash drive.
> - The batch setup function cannot be used by USB flash drives that incorporate security functions. Use a USB flash drive that does not incorporate security functions.
> - The batch setup function cannot be used by USB card readers or USB hard disks.

Saving settings to the USB flash drive

1 Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off

2 Connect the USB flash drive to the projector's USB-A port

> - Connect the USB flash drive directly to the projector. If the USB flash drive is connected to the projector through a USB hub, the settings may not be saved correctly.
> - Connect an empty USB flash drive. If the USB flash drive contains data other than the batch setup file, the settings may not be saved correctly.
> - The file name for the batch setup file is PJCONFDATA.bin. If you need to change the file name, add text after PJCONFDATA. If you change the PJCONFDATA section of the file name, the projector may not be able to recognize the file correctly.
> - You can only use single-byte characters for the file name.

3 While holding down the [Esc] button on the remote control or the control panel, connect the power cord to the projector

The On/Standby indicator and the Status indicator turn blue, and the Laser indicator and the Temp indicator turn orange.

When all of the projector's indicators turn on, release the [Esc] button.

On/Standby   Status   Laser   Temp

When all of the indicators start flashing, the batch setup file is being written.

> ⚠ **Caution**
>
> * Do not disconnect the power cord from the projector while the file is being written. If the power cord is disconnected, the projector may not start correctly.
> * Do not disconnect the USB flash drive from the projector while the file is being written. If the USB flash drive is disconnected, the projector may not start correctly.
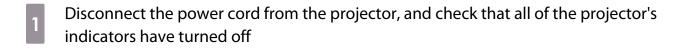
When writing completes normally, the projector turns off, and only the On/Standby indicator is lit blue.

On/Standby   Status   Laser   Temp

When the power turns off, remove the USB flash drive.

Copying saved settings to other projectors

1 Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off

2 Connect the USB flash drive containing the saved batch setup file to the projector's USB-A port

> Do not store any data except for the batch setup file on the USB flash drive. If the USB flash drive contains data other than the batch setup file, the settings may not be reflected copied correctly.

3 While holding down the [Menu] button on the remote control or the control panel, connect the power cord to the projector

The On/Standby indicator and the Status indicator turn blue, and the Laser indicator and the Temp indicator turn orange.

When all of the projector's indicators turn on, release the [Menu] button. The indicators turn on for approximately 75 seconds.

On/Standby   Status   Laser   Temp

When all of the indicators start flashing, the settings are being written.

> ⚠️ **Caution**
>
> - Do not disconnect the power cord from the projector while the settings are being written. If the power cord is disconnected, the projector may not start correctly.
> - Do not disconnect the USB flash drive from the projector while the settings are being written. If the USB flash drive is disconnected, the projector may not start correctly.

When writing completes normally, the projector turns off, and only the On/Standby indicator is lit blue.

On/Standby   Status   Laser   Temp

When the power turns off, remove the USB flash drive.

Setup by Connecting the Computer and Projector with a USB Cable

> The following operating systems support the batch setup function.
> * Windows Vista and later
> * Mac OS X 10.5.3 and later

Saving settings to a computer

1 Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off

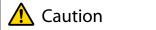**2** Connect the computer's USB port to the projector's USB-B port with a USB cable

3 While holding down the [Esc] button on the remote control or the control panel, connect the power cord to the projector

The On/Standby indicator and the Status indicator turn blue, and the Laser indicator and the Temp indicator turn orange.

When all of the projector's indicators turn on, release the [Esc] button.

On/Standby   Status   Laser   Temp

The projector is recognized as a removable disk by the computer.

4 Open the removable disk, and save the batch setup file (PJCONFDATA.bin) to the computer

> If you need to change the name of the batch setup file, add text after PJCONFDATA. If you change the PJCONFDATA section of the file name, the projector may not be able to recognize the file correctly. You can only use single-byte characters for the file name.

5 Perform "Remove USB device" on your computer, and then disconnect the USB cable

> When using a Mac, perform "Remove EPSON_PJ".

The projector turns off and only the On/Standby indicator is lit blue.

On/Standby   Status   Laser   Temp

Copying saved settings to other projectors

1 Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off

2 Connect the computer's USB port to the projector's USB-B port with a USB cable

3 While holding down the [Menu] button on the remote control or the control panel, connect the power cord to the projector

The On/Standby indicator and the Status indicator turn blue, and the Laser indicator and the Temp indicator turn orange.

When all of the projector's indicators turn on, release the [Menu] button.

On/Standby   Status   Laser   Temp

The projector is recognized as a removable disk by the computer.

4 Copy the batch setup file (PJCONFDATA.bin) that you saved to your computer to the top-level folder of the removable disk

> Do not copy any files or folders other than the batch setup file to the removable disk.

5 Perform "Remove USB device" on your computer, and then disconnect the USB cable

> When using a Mac, perform "Remove EPSON_PJ".

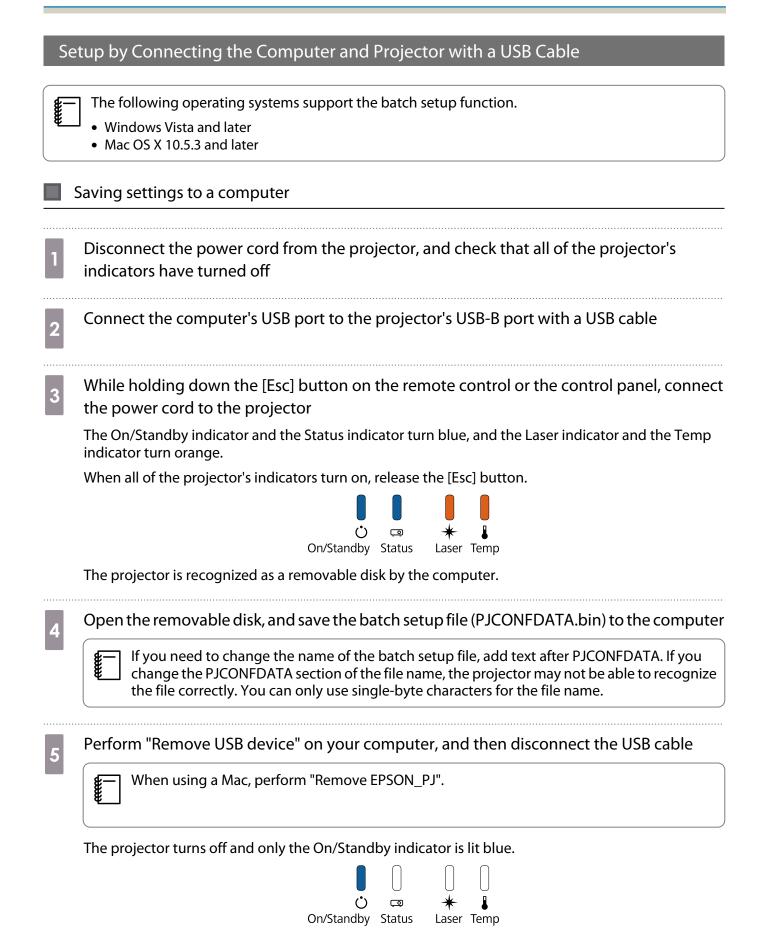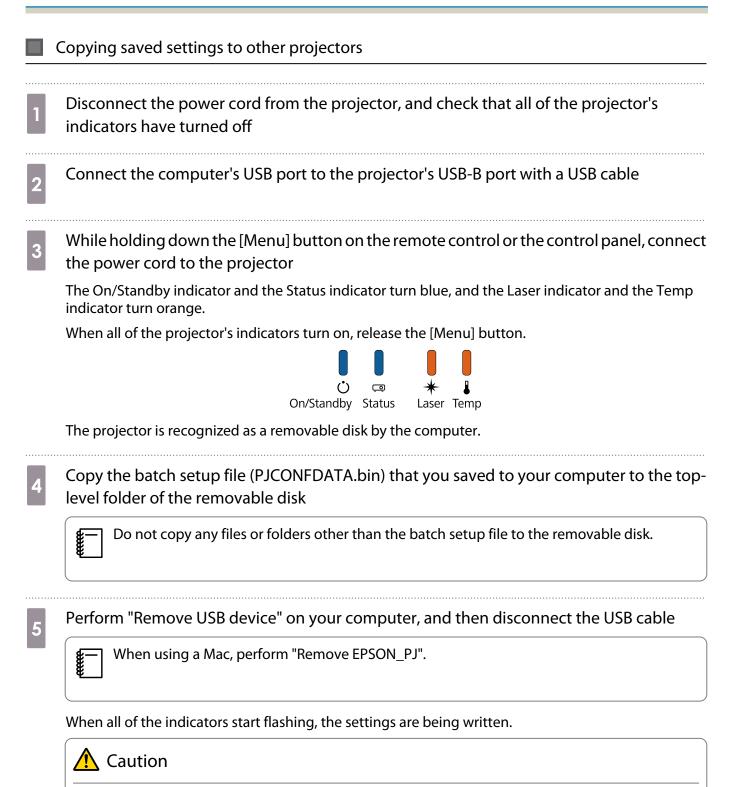When all of the indicators start flashing, the settings are being written.

⚠ **Caution**

Do not disconnect the power cord from the projector while the settings are being written. If the power cord is disconnected, the projector may not start correctly.

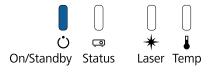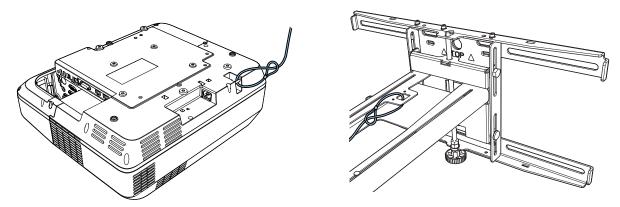When writing completes normally, the projector turns off, and only the On/Standby indicator is lit blue.

On/Standby   Status   Laser   Temp

When Setup Fails

Check	Remedy
Are the Laser indicator and the Temp indicator flashing orange quickly? On/Standby Status Laser Temp	The batch setup file may be corrupt, or the USB flash drive or USB cable may not be connected correctly. Disconnect the USB flash drive or the USB cable, unplug and then plug in the projector's power cord, and then try again.
Are the On/Standby indicator and the Status indicator flashing blue quickly, and the Laser indicator and the Temp indicator flashing orange quickly? On/Standby Status Laser Temp	Writing the settings may have failed and an error may have occurred in the projector's firmware. Stop using the projector, remove the power plug from the electrical outlet, and contact Epson for help.

Attaching a Security Cable

A commercially available theft-prevention wire lock can be attached to this product.

Pass the wire for the theft-prevention wire lock through the security cable installation points on the projector and the setting plate. See the user's guide supplied with the wire lock for locking instructions.
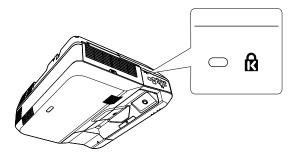
The security slot on this product is compatible with the Microsaver Security System manufactured by Kensington. See the following for more details on the Microsaver Security System.
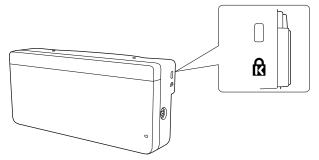
http://www.kensington.com/

Projector   Touch Unit (EB-710Ui only)

(cannot be used when attached to bracket)

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