

DuoLink Setup Guide

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About DuoLink

DuoLink is a BrightLink feature that lets you draw seamlessly across the projected images of two adjacent projectors. This guide explains how to set up your computer and two BrightLink projectors to use DuoLink.

This guide is intended for use with the following BrightLink projectors:

- BrightLink 685Wi
- BrightLink 685Wi+
- BrightLink 695Wi
- BrightLink 695Wi+
- BrightLink 696Ui
- BrightLink 697Ui
- BrightLink 710Ui
- BrightLink Pro 1450Ui
- BrightLink Pro 1460Ui
- BrightLink Pro 1470Ui

Note: The illustrations and screen captures in this guide are intended only for representative purposes. While the specific items shown may not be identical to the ones on your product, the steps are the same unless stated otherwise.

Note: The BrightLink 685Wi and BrightLink 685Wi+ projectors do not support finger touch. If you are installing these models, please ignore any touch-specific instructions.

DuoLink Requirements

In order to use the DuoLink feature, you must have the following hardware and software:

Hardware

- Two of these BrightLink projectors (of the same model):
 - BrightLink 685Wi
 - BrightLink 685Wi+
 - BrightLink 695Wi
 - BrightLink 695Wi+
 - BrightLink 696Ui
 - BrightLink 697Ui
 - BrightLink 710Ui
 - BrightLink Pro 1450Ui
 - BrightLink Pro 1460Ui
 - BrightLink Pro 1470Ui
- A Windows computer running Windows 7, Windows 8.x, or Windows 10, or a Mac running OS X 10.7 to 10.11, macOS 10.12, or macOS 10.13
- Two video cables (VGA or HDMI in any combination)
- Two USB Type B to Type A cables
- Stereo mini cable

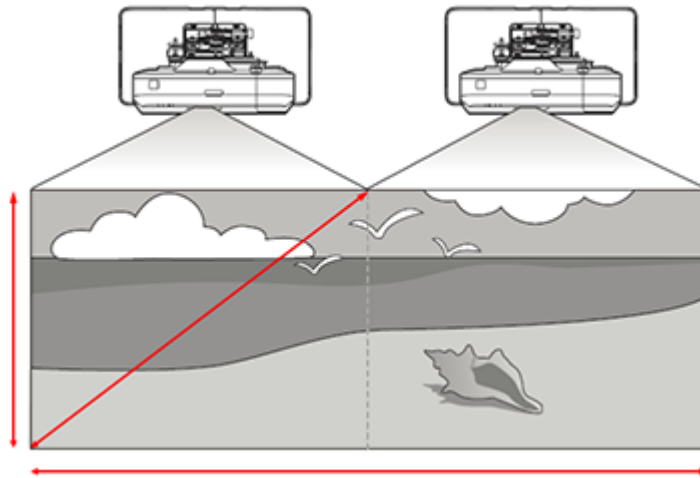
Software

- Easy Interactive Driver 4.00 or later
- Easy Interactive Tools 4.20 or later

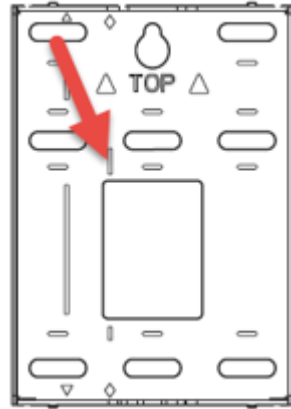
Projector Positioning Guidelines

Make sure you follow these guidelines when installing your BrightLink projectors for DuoLink.

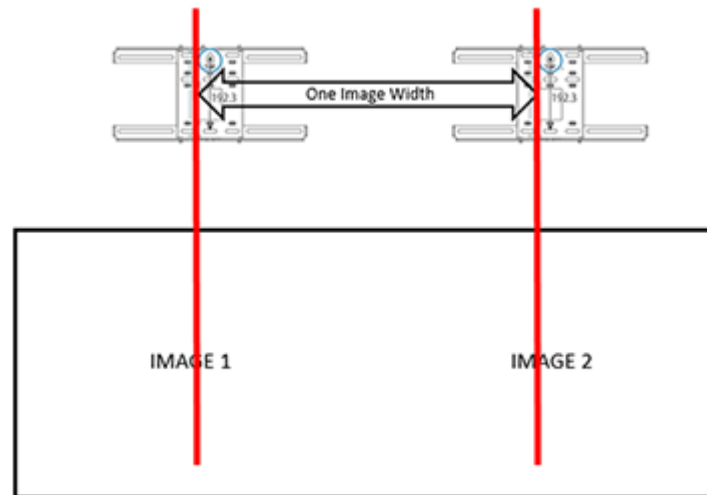
- Determine the maximum available height and width for the image. Using this information, determine the placement of the left-hand projector.



- When installing the projectors, do not measure from the center of the mounting plate; use the center line mark on the projector mount plate. This lines up with the center of the projector lens and the center of the unadjusted image.



- Make sure you install the projectors so that the edges of the projected images will align with minimal adjustment. The distance between the center line marks on the projector mount plates should be equal to the horizontal width of one screen (not the diagonal screen measurement).



- Align the images as closely as possible using the adjustment controls on the projector mount.
- After physically aligning the projectors as closely as possible, use the **Geometry Correction** settings to align the projected images before calibrating the pens and finger touch interactivity, if available. For detailed instructions, see your product's *User's Guide*.

Configuring the Computer

Follow the instructions in these sections to connect your computer to both projectors and configure the display settings.

[Connecting Your Computer and Projectors](#)

[Configuring the Display Settings](#)

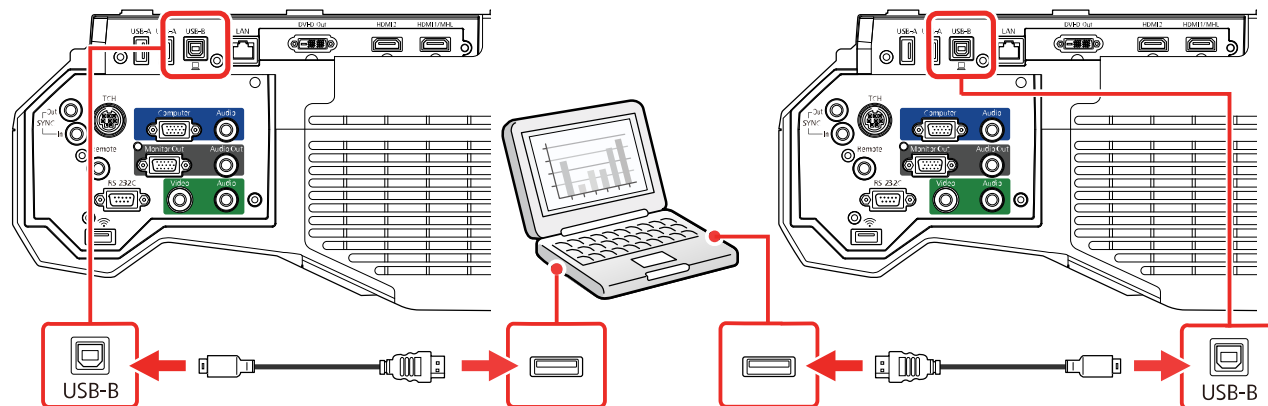
Connecting Your Computer and Projectors

To connect your computer to the BrightLink projectors, your computer must have two video output ports and two USB ports. The video ports can be VGA or HDMI in any combination.

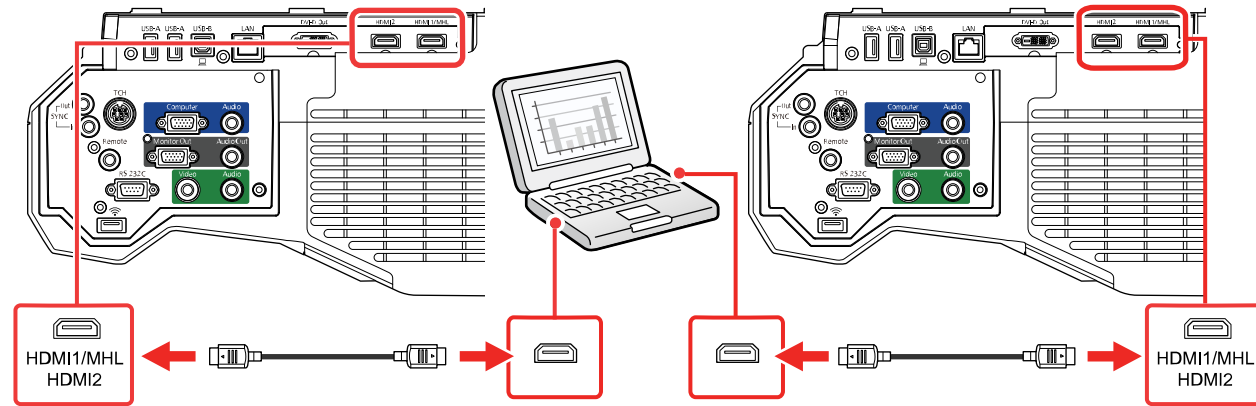
Make sure you have installed Easy Interactive Tools (4.20 or later) and the Easy Interactive Driver (4.00 or later). If a software CD is not available, you can download them from the Epson support site.

1. Connect a USB Type-B cable between the computer and each projector.

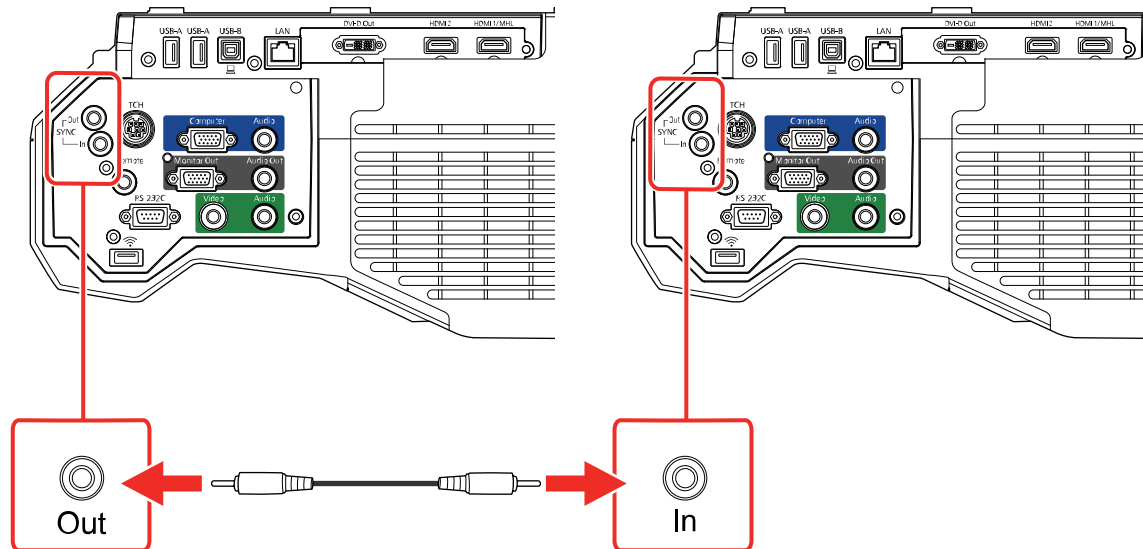
Note: See your projector's *User's Guide* for the specific port locations on your projector.



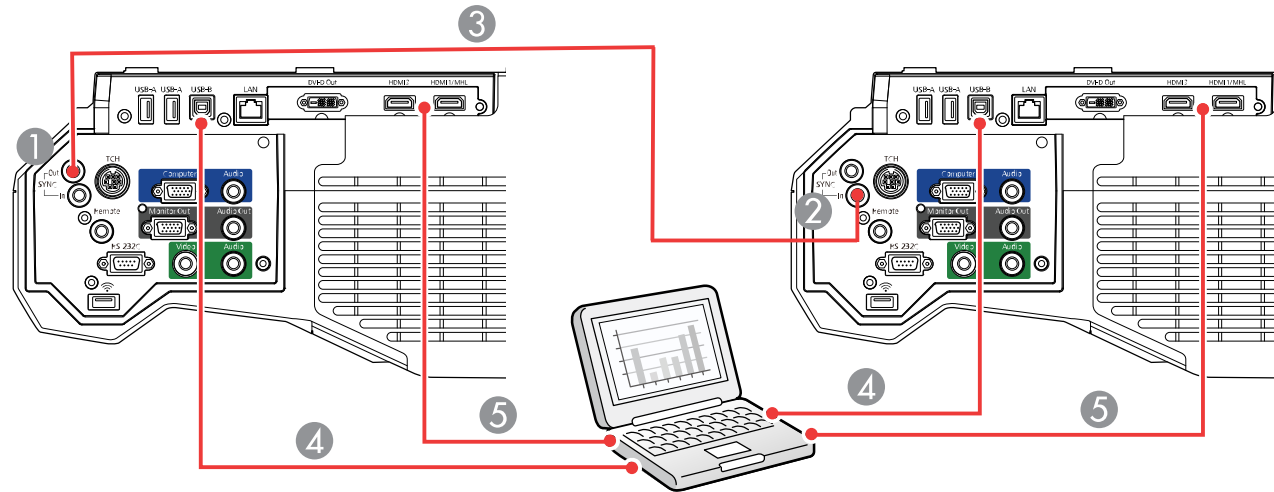
2. Connect a VGA or HDMI video cable to the video output ports on your computer and the corresponding ports on your projector.



3. Connect one end of a stereo mini cable to the **SYNC Out** port on one projector and connect the other end to the **SYNC In** port on the other projector.



Your final configuration should look like this:



- 1 **SYNC Out port**
- 2 **SYNC In port**
- 3 **Stereo mini cable**
- 4 **USB Type-B cable**
- 5 **Video cable (VGA or HDMI)**

Parent topic: [Configuring the Computer](#)

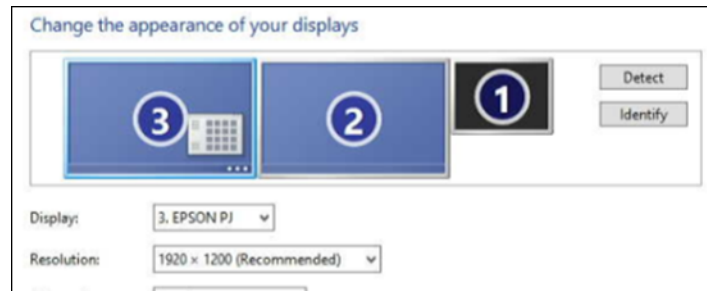
Configuring the Display Settings

You must configure the display settings on the computer to project your desktop. The computer sees each projector as a separate display, so you must configure them both.

Note: This is a general description of the tasks involved in configuring your computer display. See your computer or operating system manual for details. Some video cards may not support certain display configurations.

1. Set your computer's video settings to extend the desktop.

2. Make sure the output resolution of the computer is set to the native resolution of the projectors.
3. Position the displays so that they correspond to the position of the projectors. The computer display should be the farthest to the right.



4. Select the projector on the left as the primary display and make sure your desktop is extended onto the second display.
5. For Mac, do one of the following:
 - **macOS 10.12/macOS 10.13:** Make sure the **System Preferences > Mission Control > Displays have separate Spaces** setting is set to **Off**.
 - **OS X:** Make sure the **System Configuration > Mission Control > Operating space for each display** setting is set to **Off**.

Parent topic: [Configuring the Computer](#)

Configuring Projector Settings for Multiple Projectors

Follow the instructions in these sections to set up multiple projectors for use as a DuoLink system.

Note: Turn on one of the projectors, and then perform all of the configuration tasks listed here. Turn the projector off, then turn on the second projector and perform the configuration tasks on that projector.

[Enabling Multi-Projection](#)

[Projector Identification System for Multiple Projector Control](#)

[Matching Images for Multiple Projectors](#)

[Pen Calibration](#)

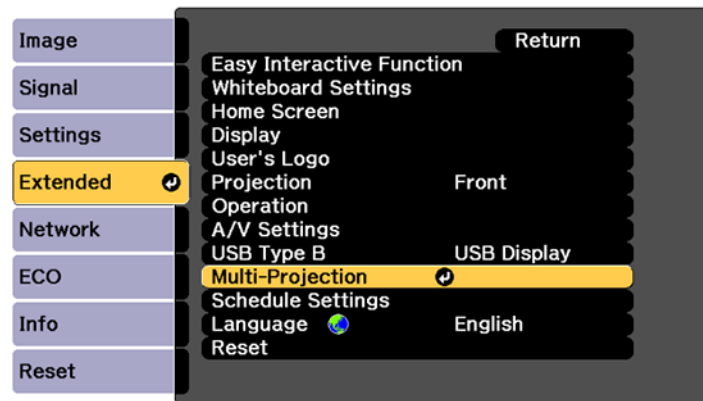
[Calibrating for Finger Touch Interactivity](#)

Enabling Multi-Projection

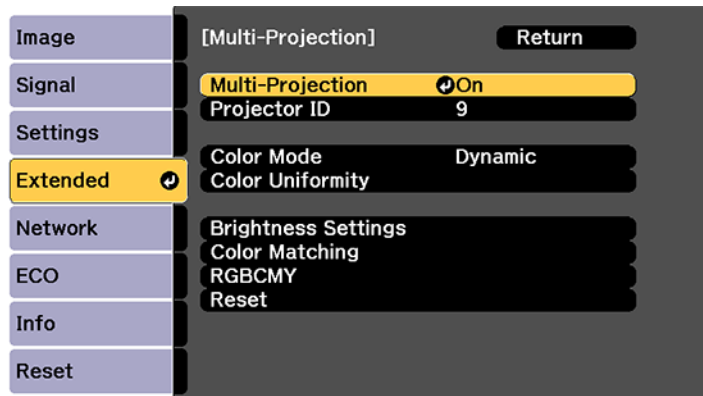
You must enable the **Multi-Projection** settings on both projectors to set them up for DuoLink.

1. In the Extended menu, set the **Easy Interactive Function > Advanced > Sync of Projectors** setting to **Wired**.
2. Set the **Wired Sync Mode** setting to **Mode 1**.
3. Make sure the **Distance of Projectors** setting is set to **Mode 1**
4. Select the **Multi-Projection** setting and set it to **Left** or **Right** based on the position of the projector.
5. Press **Esc** and make sure the **Pen Operation Mode** setting is set to **Windows/Mac Mode**.
6. Press **Esc** again and make sure the **USB Type B** setting is set to **Easy Interactive Function**.

7. Select the **Multi-Projection** menu and press **Enter**.



8. Set the **Multi-Projection** setting to **On**.



9. Press **Menu** or **Esc** to exit the menus.
10. Hover near or tap on the board or the projected image with the interactive pen or your finger.
11. If the  icon is displayed on the projected screen, select it, then select the  icon.

You can now operate the computer across both displays using the interactive pens or your finger.

Parent topic: [Configuring Projector Settings for Multiple Projectors](#)

Projector Identification System for Multiple Projector Control

You can operate multiple projectors using one remote control for more elaborate presentations. To do this, you assign an identification number to each projector and to the remote control. Then you can operate all the projectors at once or individually.

[Setting the Projector ID](#)

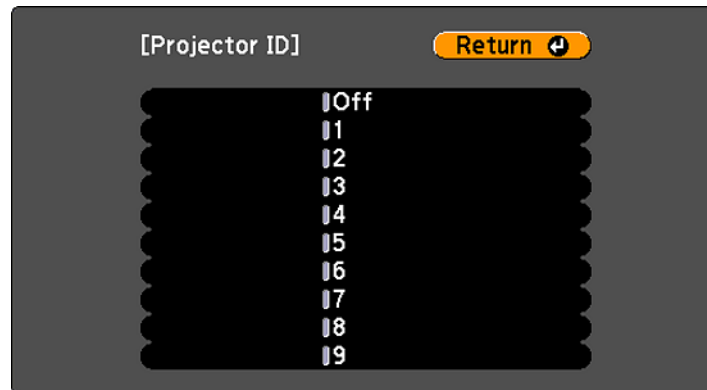
[Setting the Remote Control ID](#)

Parent topic: [Configuring Projector Settings for Multiple Projectors](#)

Setting the Projector ID

If you want to control multiple projectors from a remote control, give each projector a unique ID.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Multi-Projection** setting and press **Enter**.
4. Select **Projector ID** and press **Enter**.



5. Press the arrow buttons on the remote control to select the identification number you want to use for the projector. Then press **Enter**.

Repeat these steps for all the other projectors you want to operate from one remote control.

Note: If you don't know the projector's ID, aim the remote control at the projector and press the **ID** button to temporarily display the projector's ID on the screen.

Parent topic: [Projector Identification System for Multiple Projector Control](#)

Setting the Remote Control ID

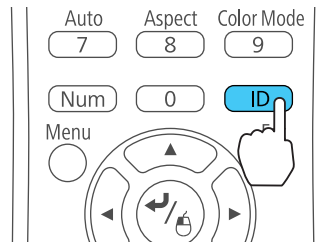
The remote control's ID is set to zero by default so it can operate any compatible projector. If you want to set the remote control to operate only a particular projector, you need to set the remote control's ID to match the projector's ID.

Note: You must set the remote control ID to match the projector ID each time you turn on the projector you have set it to control.

1. Turn on the projector you want the remote control to operate with exclusively.
2. Make sure you know the projector's ID number as set in the Extended menu **Projector ID** setting.

Note: If you have forgotten the projector's ID, aim the remote control at the projector and press the **ID** button to temporarily display the projector's ID on the screen. If you turn off the **Projector ID** setting, the remote control will operate the projector regardless of the ID selected on the remote.

3. Aim the remote control at that projector.
4. Hold down the **ID** button on the remote control while you press the numeric button that matches the projector's ID. Then release the buttons.



5. Press the **ID** button on the remote control to check if the ID-setting process worked.
You see a message displayed by the projector.
 - If the remote control is listed as **On**, the remote control ID is set to operate only the listed projector.
 - If the remote control is listed as **Off**, the remote control ID is not set properly. Repeat the steps above to set the ID to match the projector you want to control.

Parent topic: [Projector Identification System for Multiple Projector Control](#)

Matching Images for Multiple Projectors

You can adjust the projectors' images to minimize any differences in brightness or color. Use these sections to adjust the image settings for each projector.

Before adjusting the images, make sure you have used the **Geometry Correction** settings to align the projected images, and that both projectors are in the same **Color Mode**. In most cases, use the **Presentation** color mode for DuoLink installations.

To change the **Color Mode** setting, press the **Menu** button and select the **Extended > Multi-Projection > Color Mode** setting.

[Adjusting Color Uniformity](#)

[Adjusting the Projector's Brightness Level](#)

[Matching the Image Colors](#)

[Adjusting RGBCMY](#)

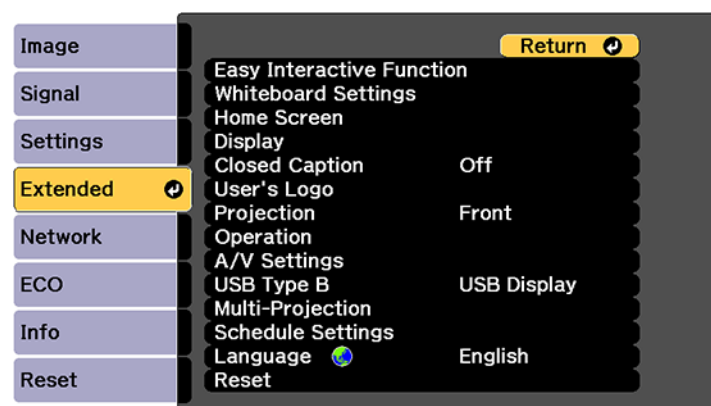
Parent topic: [Configuring Projector Settings for Multiple Projectors](#)

Adjusting Color Uniformity

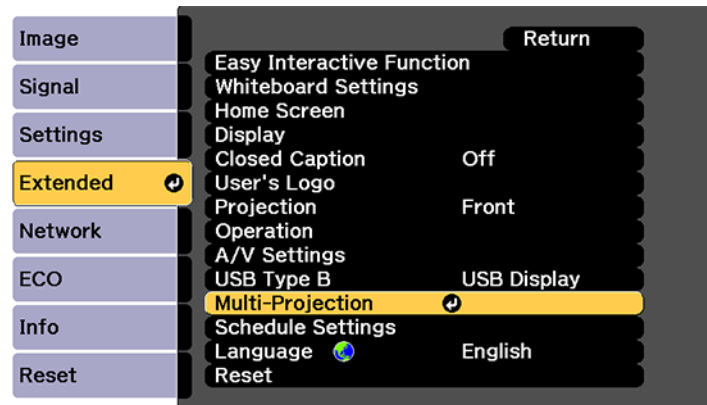
If the color tone is uneven on each screen, adjust the color tone balance in the Extended menu of each projector. (The color tone may not be uniform even after performing color uniformity.)

Note: If you cannot adjust color uniformity, make sure the **Color Mode** setting is not set to **Dynamic**.

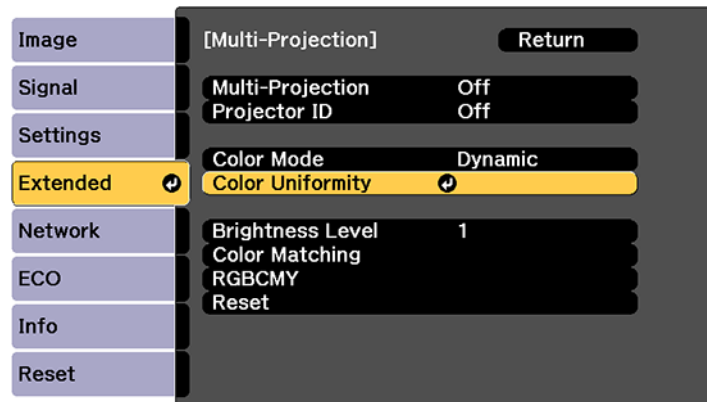
1. Press the **Menu** button on the remote or control panel, select the **Extended** menu, and press **Enter**.



2. Select the **Multi-Projection** setting and press **Enter**.



3. Select the **Color Uniformity** setting and press **Enter**.



4. Select **On** as the **Color Uniformity** setting and press **Enter**, then press **Esc**.
5. Select **Adjustment Level** and press **Enter**.
6. Select an adjustment level and press **Esc**.
7. Select **Start Adjustments** and press **Enter**.

8. Select the area you want to adjust and press **Enter**.



9. Select **Red**, **Green**, or **Blue** and press the left arrow button to weaken the color tone or the right arrow button to strengthen the color tone.

Note: The adjustment screen changes each time you press **Enter**.

10. Press **Esc** to return to the area selection screen.
11. Repeat steps 8 through 10 for each area, then select **All** to adjust the entire screen.
12. Press **Esc** to exit the menus.

Parent topic: [Matching Images for Multiple Projectors](#)

Adjusting the Projector's Brightness Level

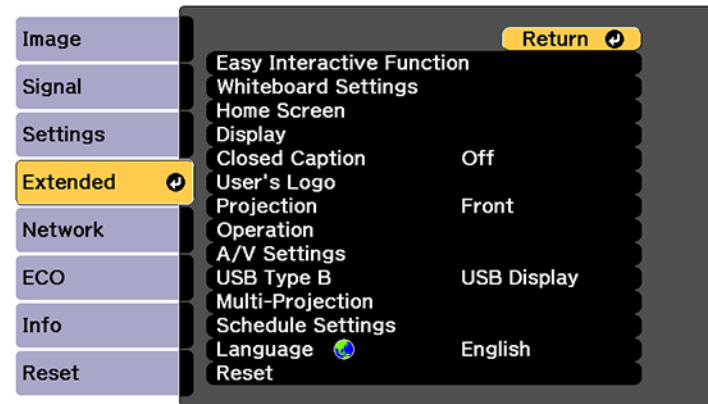
When projecting with multiple projectors, you must adjust the brightness setting so that all projectors are equally bright. (Even after adjusting the brightness levels, the brightness of each projector may not match exactly.)

1. Turn on all the projectors and display the same image.
2. Press the **Menu** button.
3. Select the **ECO** menu and press **Enter**.
4. Do one of the following:
 - Select **Power Consumption** > **Normal** and press **Esc**.

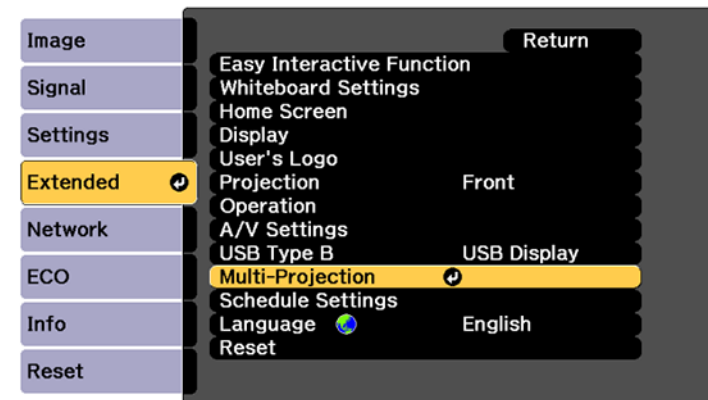
- For laser models, select **Brightness Settings > Light Source Mode > Normal** and press **Esc**.

Note: If you have set **Multi-Projection** to **On**, you cannot change the **Power Consumption** or **Light Source Mode** setting.

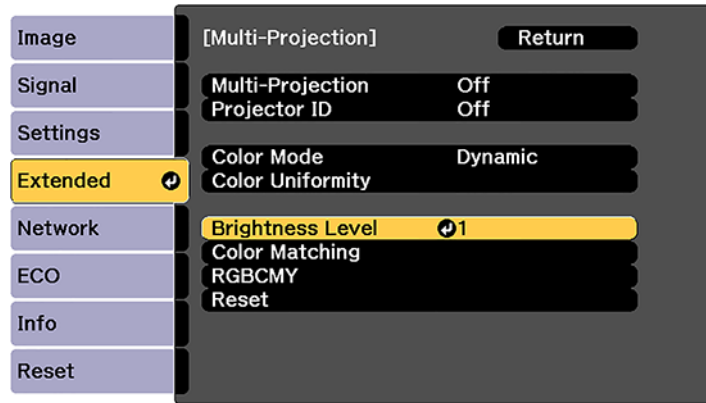
5. Select the **Extended** menu and press **Enter**.



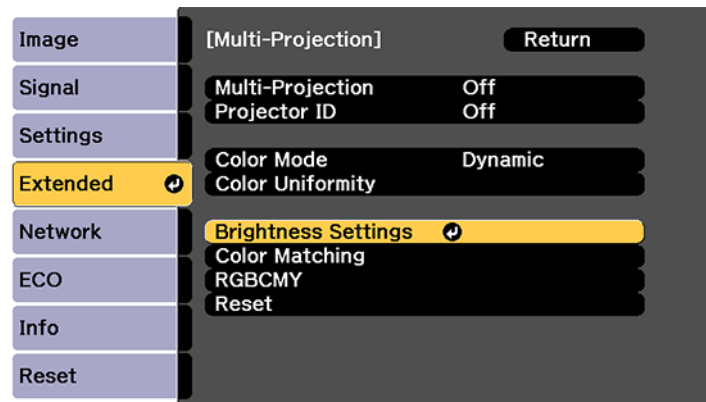
6. Select the **Multi-Projection** setting and press **Enter**.



7. Do one of the following:
- Select the **Brightness Level** setting and press **Enter**.



- For laser models, select **Brightness Settings** > **Brightness Level** and press **Enter**.



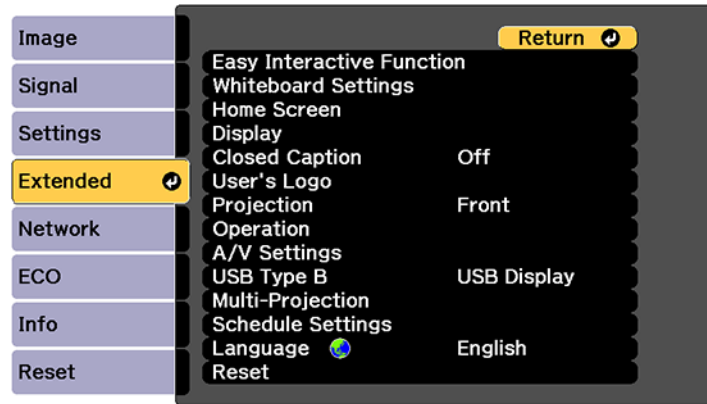
8. Select a brightness level and press **Enter**.
9. Press **Esc** to return to the previous screen.

Parent topic: [Matching Images for Multiple Projectors](#)

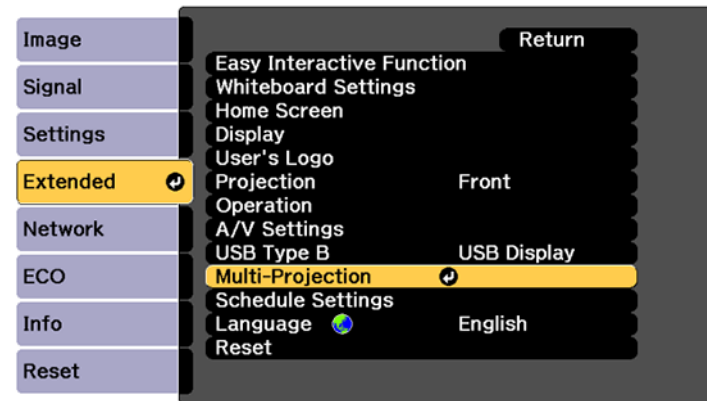
Matching the Image Colors

You can match the display color of multiple projectors that will project next to one another.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.



3. Select the **Multi-Projection** setting and press **Enter**.



4. Select the **Color Matching** setting and press **Enter**.

You see this screen:



5. Press the left or right arrow buttons to select a value for the **Adjustment Level** setting.

Note: There are several adjustment levels and you can adjust each level individually.

6. Press the left or right arrow buttons to adjust the color tone for the **Red**, **Green**, and **Blue** settings.
7. Press the left or right arrow buttons to adjust the **Brightness** setting.
8. Repeat the previous three steps as necessary to adjust each adjustment level.

Parent topic: [Matching Images for Multiple Projectors](#)

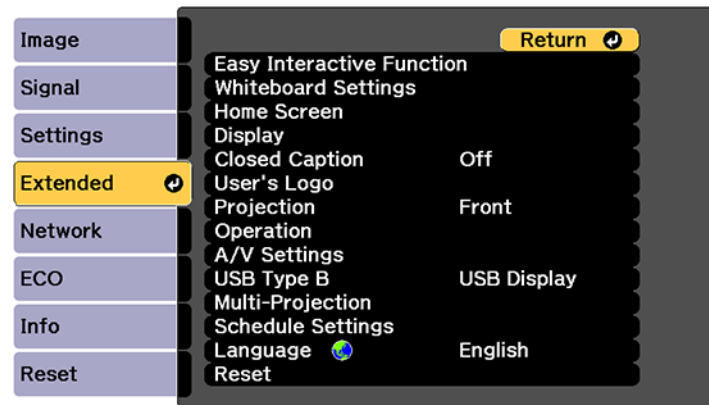
Adjusting RGBCMY

You can adjust the **Hue**, **Saturation**, and **Brightness** settings for R (red), G (green), B (blue), C (cyan), M (magenta), and Y (yellow) color components.

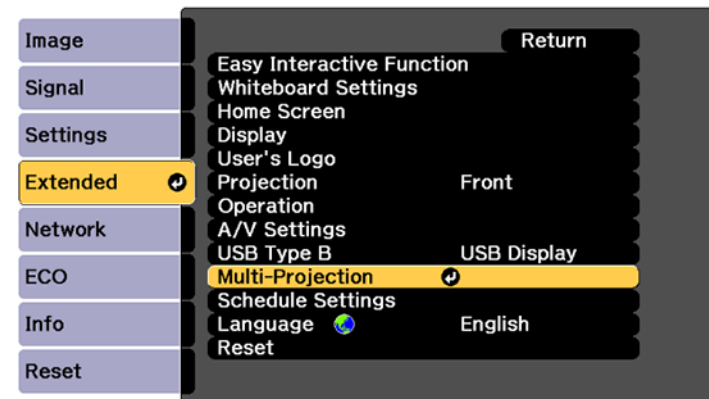
Turn on all the projectors and select the **RGBCMY** setting in each projector's Extended menu so that the color tone on the combined screen becomes entirely even.

1. Press the **Menu** button.

2. Select the **Extended** menu and press **Enter**.

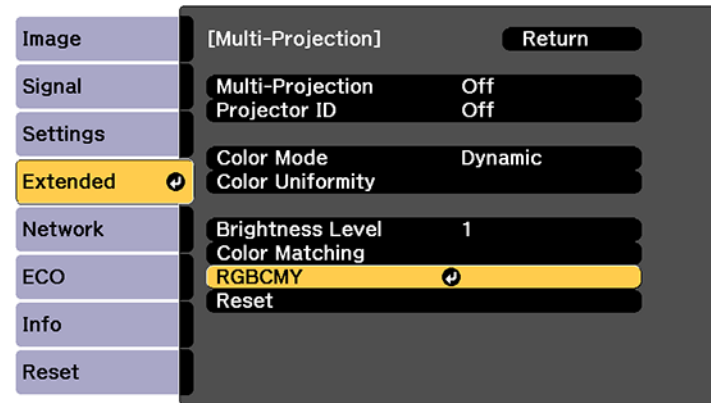


3. Select the **Multi-Projection** setting and press **Enter**.



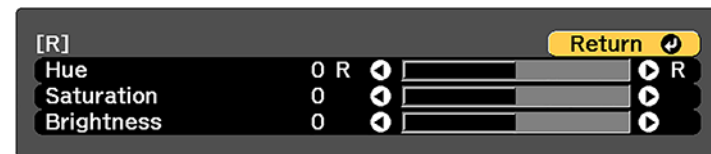
4. Select the **RGBCMY** setting and press **Enter**.

Note: The **RGBCMY** setting may only be available when displaying a computer signal.



5. Select the color you want to adjust and press **Enter**.

You see this screen:



- To adjust the overall hue of the color, adjust the **Hue** setting.
 - To adjust the overall vividness of the color, adjust the **Saturation** setting.
 - To adjust the overall brightness of the color, adjust the **Brightness** setting.
6. Press the left or right arrow buttons to adjust the **Hue**, **Saturation**, and **Brightness** settings.
 7. Repeat the previous three steps as necessary to adjust each color.
 8. Press **Menu** or **Esc** to exit the menus.

Parent topic: [Matching Images for Multiple Projectors](#)

Pen Calibration

Calibration coordinates the position of the pen with the location of your cursor. You only need to calibrate the first time you use your projector's interactive features. Calibration results remain until you calibrate again.

Be sure to calibrate the pen before performing finger touch calibration.

If you notice positioning discrepancies after doing any of the following, calibrate again:

- Performing Geometry Correction
- Adjusting the image size
- Using the Image Shift feature
- Moving the projector

Note: When using multiple projectors with DuoLink, draw a line across the two screens after pen calibration and make sure the screens are aligned correctly. If the line position does not match, realign the screens and perform calibration again.

Note: Move any pen you are not using away from the projection screen while calibrating.

[Calibrating Automatically](#)

[Calibrating Manually](#)

Parent topic: [Configuring Projector Settings for Multiple Projectors](#)

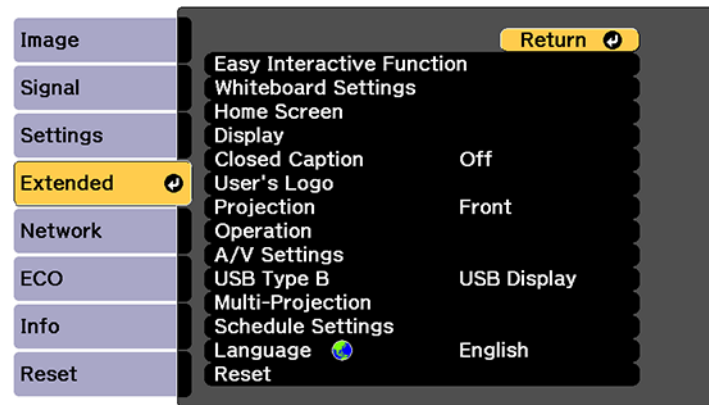
Calibrating Automatically

You do not need the pens or a computer for Auto Calibration. Make sure the other projector is turned off during calibration.

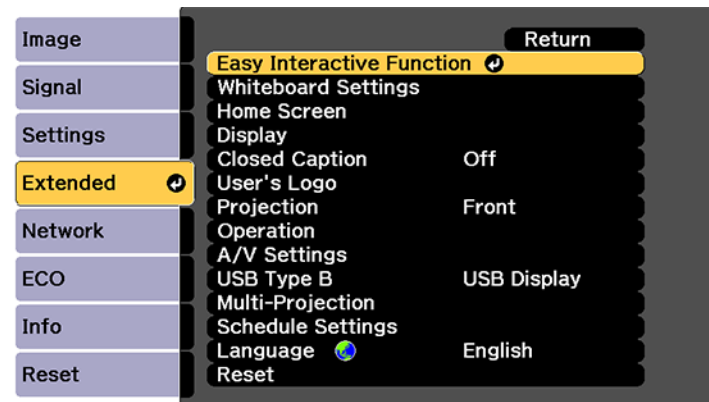
Make sure you have aligned the screens before starting calibration.

Note: You can start Auto Calibration by pressing the **User** button on the remote control or by pressing the **Menu** button on the remote control as described here.

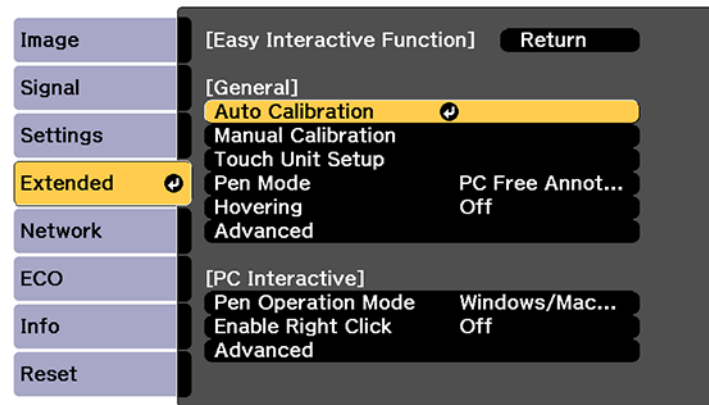
1. Press the **Menu** button, select the **Extended** menu, and press **Enter**.



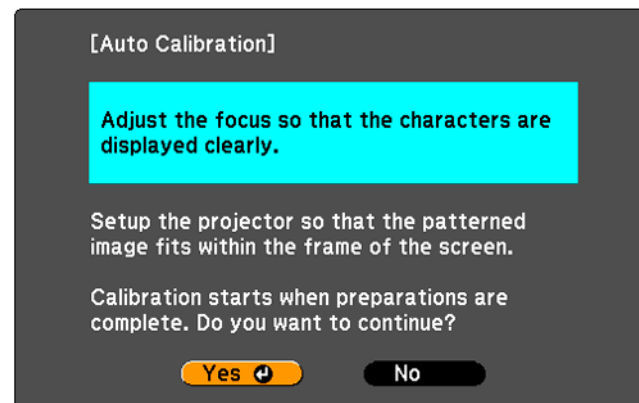
2. Select the **Easy Interactive Function** setting and press **Enter**.



3. Select **Auto Calibration** and press **Enter**.



You see this screen:



4. Adjust the image focus, if necessary.

5. Press **Enter** to select **Yes**.

A pattern appears then disappears, and the system is calibrated. If you see a message that calibration failed, you need to calibrate manually.

The cursor location and pen position should match after calibration. If not, you may need to calibrate manually.

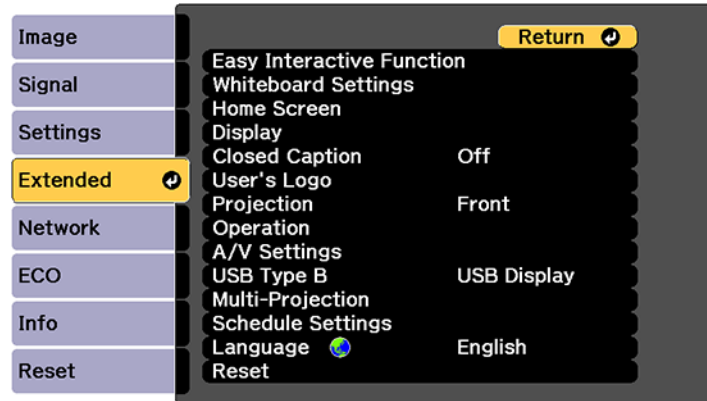
Parent topic: [Pen Calibration](#)

Calibrating Manually

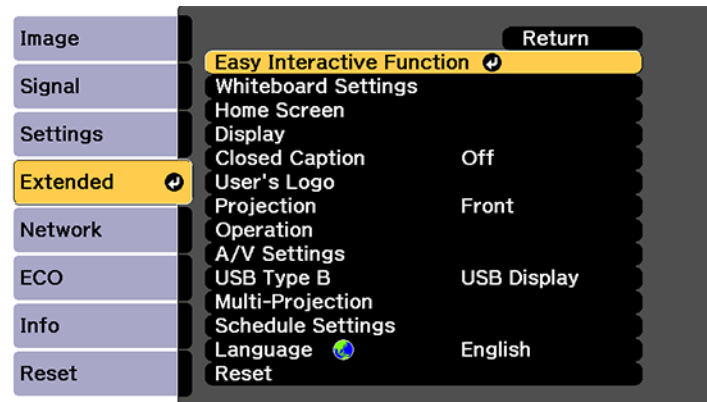
If the cursor location and pen position do not match after auto calibration, you can calibrate manually.

Make sure you have aligned the screens before starting calibration.

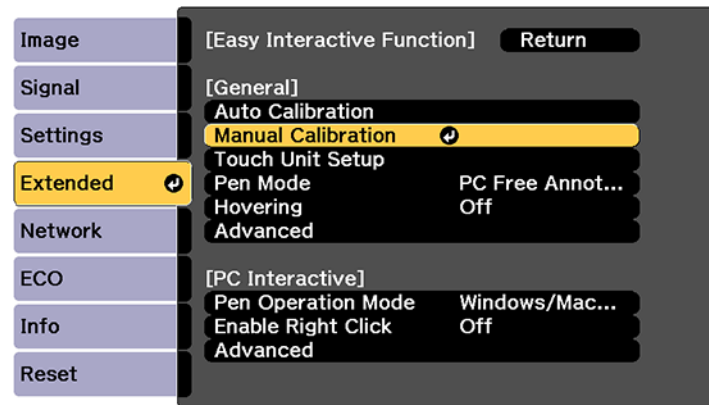
1. Press the **Menu** button, select the **Extended** menu, and press **Enter**.



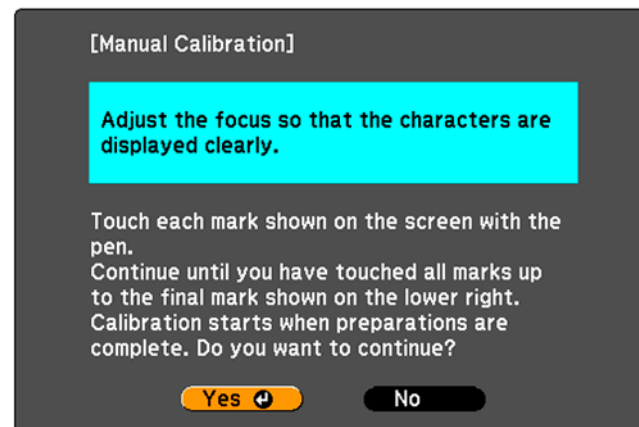
2. Select the **Easy Interactive Function** setting and press **Enter**.



3. Select **Manual Calibration** and press **Enter**.

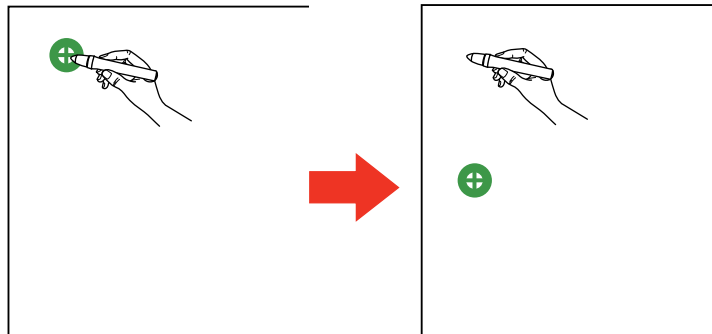


You see this screen:

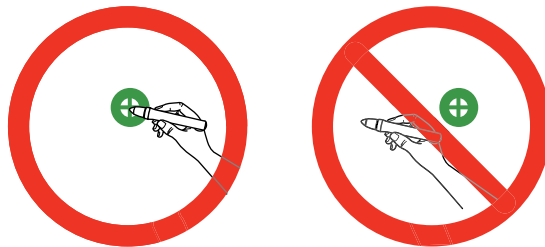


4. Adjust the image focus, if necessary.
5. Press **Enter** to select **Yes**.
A flashing green circle appears in the upper left corner of your projected image.
6. Touch the center of the circle with the tip of the pen.

The circle disappears, and you see another circle below the first one.

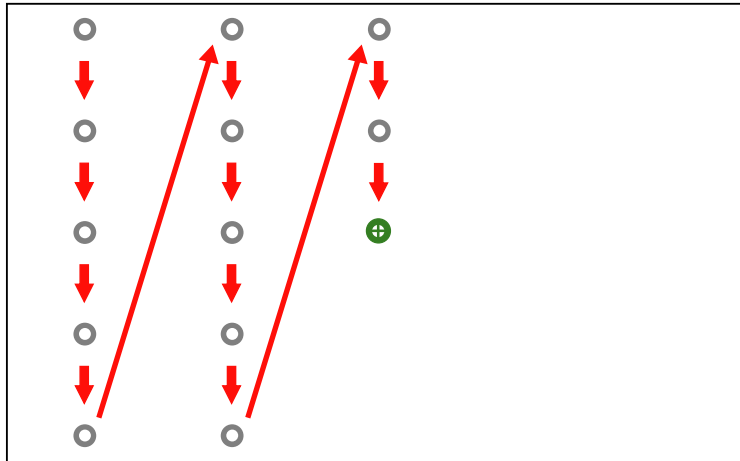


Note: For the most accurate calibration, be sure to touch the center of the circle.



Note: Make sure you are not blocking the signal between the pen and the interactive receiver (next to the projection window on the projector).

7. Touch the center of the next circle, then repeat. When you get to the bottom of the column, the next circle appears at the top of a new column.



Note: If you make a mistake, press the **Esc** button on the remote control to go back to the previous circle. To restart the calibration process, press and hold the **Esc** button for 2 seconds.

8. Continue until all of the circles disappear.

Parent topic: [Pen Calibration](#)

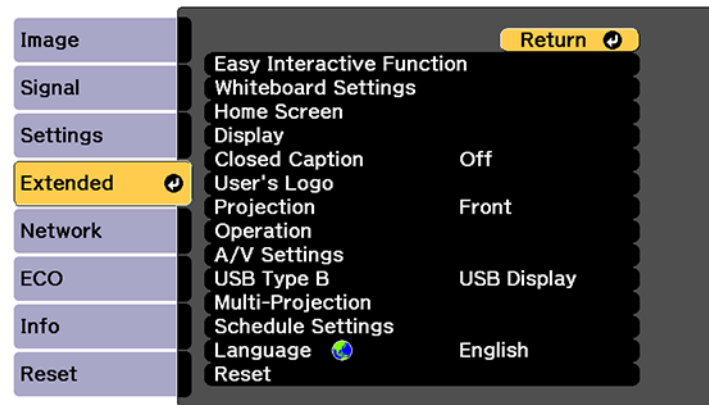
Calibrating for Finger Touch Interactivity

Finger touch calibration coordinates the position of your finger with the location of the cursor. Turn off the other projector while performing touch calibration.

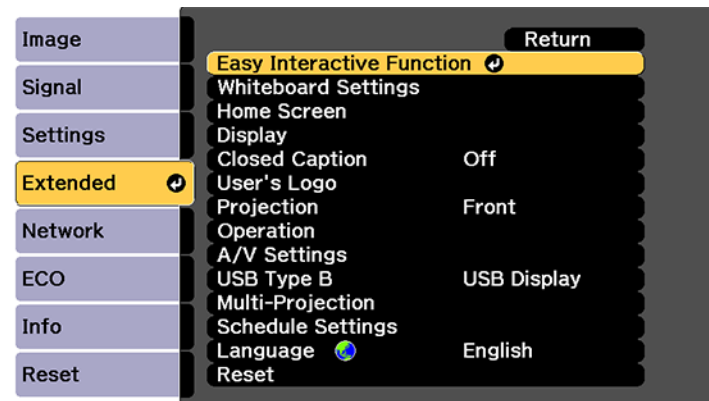
Make sure you have calibrated the pens, installed the Touch Unit, performed angle adjustment, and turned on the Touch Unit before calibrating for finger touch interactivity.

Note: The BrightLink 685Wi and BrightLink 685Wi+ do not support finger touch.

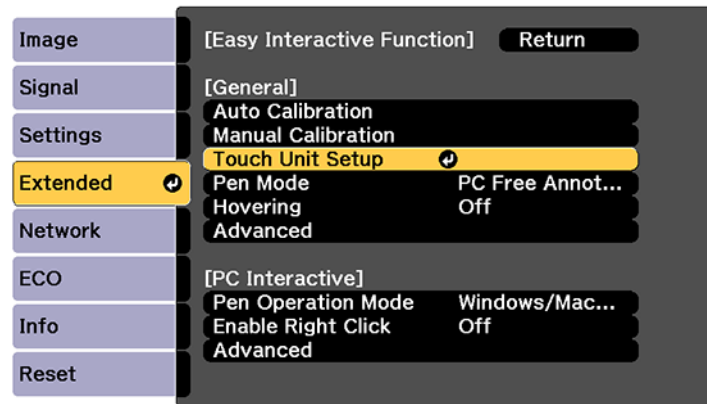
1. Press the **Menu** button, select the **Extended** menu, and press **Enter**.



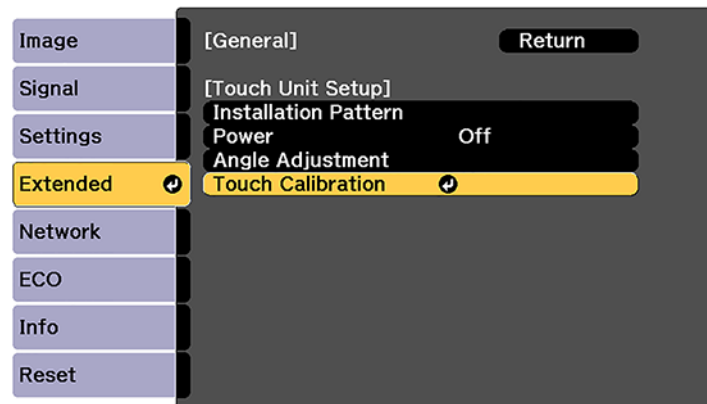
2. Select the **Easy Interactive Function** setting and press **Enter**.



3. Select **Touch Unit Setup** and press **Enter**.

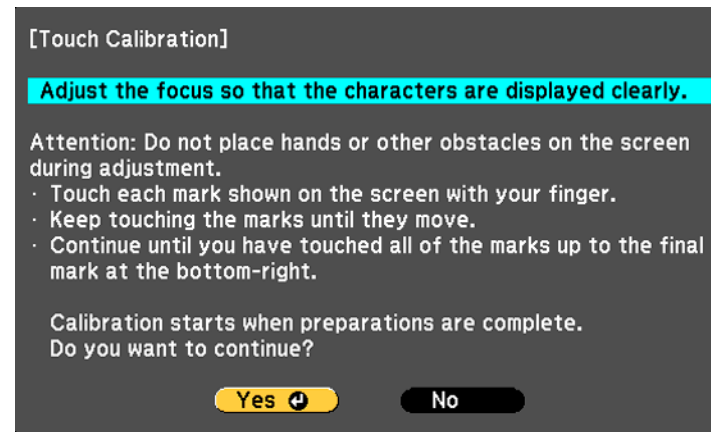


4. Select **Touch Calibration** and press **Enter**.

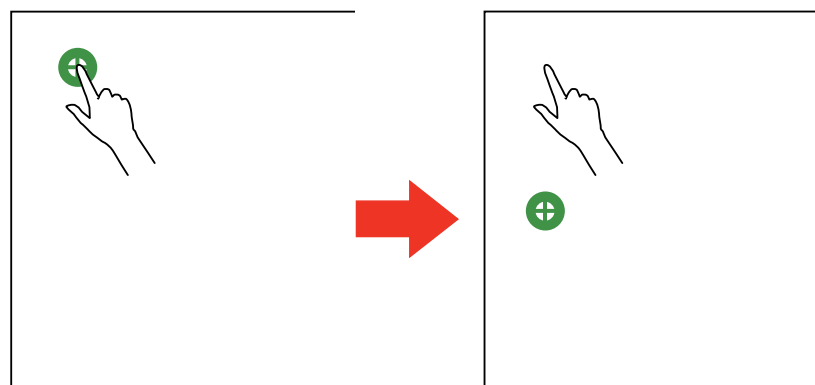


Note: If the **Touch Calibration** setting is disabled, make sure the **Power** setting is set to **On**.

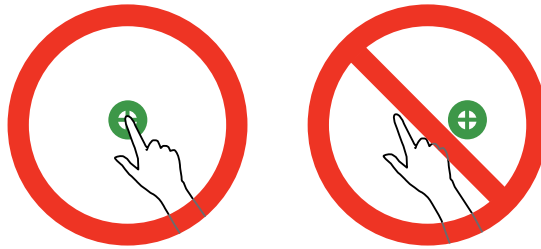
You see this screen:



5. Adjust the image focus, if necessary.
6. Press **Enter** to select **Yes**.
A flashing green circle appears in the upper left corner of your projected image.
7. Touch and hold the center of the circle with your finger until the circle disappears and another circle appears, then release it.
The circle disappears, and you see another circle below the first one.

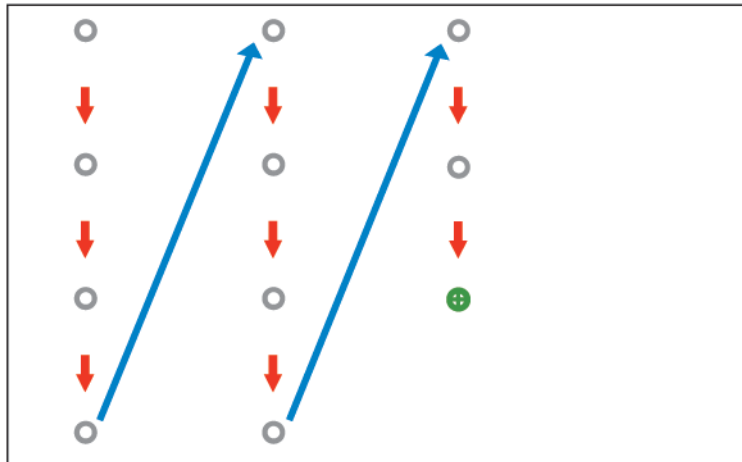


Note: For the most accurate calibration, be sure to touch the center of the circle with the tip of your finger.



Note: Make sure you are not blocking the signal between your finger and the interactive receiver (next to the projection window on the projector).

8. Touch the center of the next circle with your finger and continue until all of the circles disappear. When you get to the bottom of a column, the next circle appears at the top of a new column.



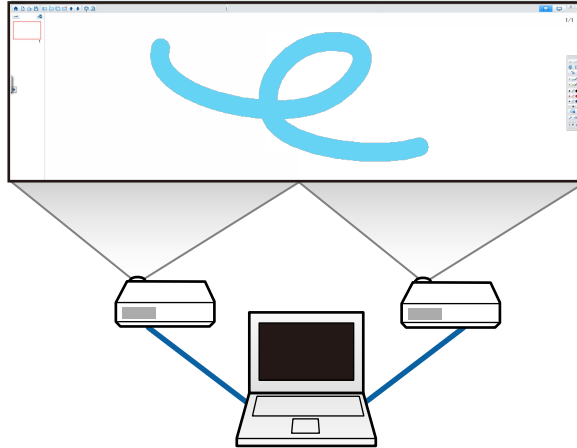
Note: If you make a mistake, press the **Esc** button on the remote control to go back to the previous circle. To restart the calibration process, press and hold the **Esc** button for 2 seconds.

9. If the cursor location and your finger position do not match, repeat these steps to calibrate again.

Parent topic: [Configuring Projector Settings for Multiple Projectors](#)

Enabling DuoLink in Easy Interactive Tools

You need to configure Easy Interactive Tools for use with DuoLink.



Check the following on your computer before enabling DuoLink in Easy Interactive Tools:

- You have installed Easy Interactive Tools and the Easy Interactive Driver
 - The resolution for the primary display and the secondary display are the same
 - The primary display and the secondary display are displayed at the same height
 - The secondary display is placed to the right of the primary display
 - For Mac, do one of the following:
 - **macOS 10.12/macOS 10.13:** Make sure the **System Preferences > Mission Control > Displays** have **separate Spaces** setting is set to **Off**.
 - **OS X:** Make sure the **System Configuration > Mission Control > Operating space for each display** setting is set to **Off**.
1. In Easy Interactive Tools, click  >  on the Command Bar.
You see the Settings screen.
 2. On the **Enlarge Screen** tab, select **Use Multi-Projection** under **Use Screen Settings**.

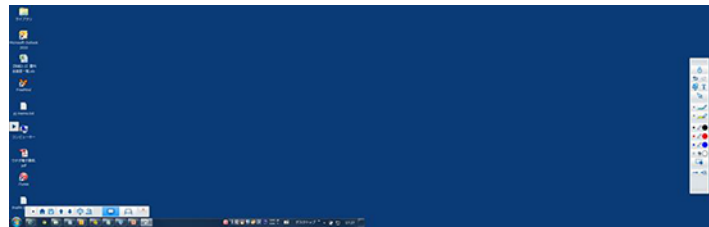
Easy Interactive Tools Modes

You can use DuoLink with Easy Interactive Tools in the following modes.

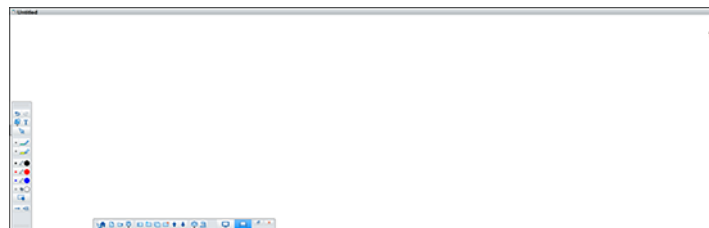
Note: If you see two toolbars, you are not in PC Interactive mode. Switch to PC Interactive mode to use Easy Interactive Tools.

Note: When you save the screen using Easy Interactive Tools, both screens are saved into a single image.

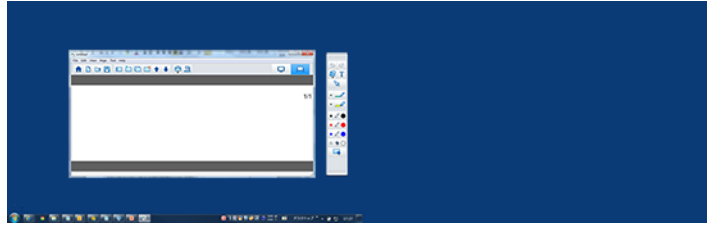
- **EIT Annotation Mode:** The computer desktop is displayed across both screens and you can draw using the interactive tools directly on the desktop. There is a single toolbar for the entire screen.



- **EIT Whiteboard Mode (Fullscreen):** The whiteboard is displayed across both screens and you can draw on it using the interactive tools.



- **EIT Whiteboard Mode (Windowed):** Select the resize icon in the upper right of the whiteboard window to display the computer desktop and whiteboard simultaneously.



Note: For more information on Easy Interactive Tools, see the *Easy Interactive Tools 4.20 Operation Guide* on the Epson support site.

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