This guide will help you with many of the basics of operation for your Epson 485wi BrightLink Projector with interactive functionality. If you need further assistance with questions, you can refer to the end of this guide for links to online support or contact the AV Team with GCS Technology Services.
Connections

There are several physical connections which are vital to the normal operation of your Epson 485wi projector. The first, and most important of these, is the VGA connection from your PC to your projector. Below is an example of a VGA cable.

There will most likely be several VGA cables installed behind the Instructors PC going to a couple of locations. The AV Team has to split the video signal among two pieces of equipment (Your projector and in most cases a mounted Television) and in order to do this a splitter is installed.
The splitter allows the video signal to appear on both the PC’s monitor, the projector and the TV. Below are several examples of the splitters that the AV Team installs.

Once the signal is split to the PC’s monitor, the video signal needs to travel through in-wall cabling to the projector. This is done by connecting a VGA cable from the splitter to the AVP, which is a wall plate located near the PC.

None of the connections beyond this point are accessible by anyone other than a GCS Technician.

The second connection that is required for the interactive function of your Epson 485wi is a standard USB cable.
In most cases, this USB cable has been installed by the AV Team and will be green in color. The ‘A’ end of the cable will plug into any available USB port on your PC. The other end of the cable, the ‘B’ end, will plug into a wall plate located near the AVP.

From this point the signal travels over in-wall cabling to the projector. *Again, only a GCS Technician will be able to access the connection points either in the wall or at the projector.*

If you have issues with your projector not displaying the image from your PC, or your interactive pen stops working, check these connections behind your PC and at the wall prior to opening a ticket. If these connections are secured properly and you still have issues, please open a ticket with the AV Team with Technology Services.

**Basic Operation**

Listed below are the steps necessary to operate your Epson 485wi in a classroom environment.

**Step 1** – Power on the projector. You can reach up and push the power button on the projector or you can use the power button located on the remote. In either case, you should hear the projector beep and the amber light should turn green and start blinking while the power up cycle runs its course.
This process takes under a minute and once complete, you should have an image from whatever source you have connected to the projector provided that source is active (powered on and not in sleep mode).

There are two locations on the displayed image where you can see which input you have selected. Once an image from your source appears, the upper right hand corner will have information on what input you have selected. If you have a blue screen with no image from your PC or source device, look in the bottom left hand corner to determine which input you have selected.

**Step 2** – Use your interactive pen(s). Once you have the image from the PC displayed on the viewing surface, you will need to retrieve and power on your interactive pen(s). You have two interactive pens that come with the Epson 485wi. Each is marked with either a blue or orange end-cap. The power switch is located on the underside of the back end of the pen(s). See the pen image below for details.

![Pen Image](image)

1 - Pen Tip  
2 - Strap Hook  
3 - Power LED  
4 - Power Switch  
5 - Battery Compartment

Once the pen has been powered on, it will take a few seconds for the projector and pen to communicate and activate the interactive functionality. You will know that the interactive functions are active when you approach the board with the pen and the cursor moves towards the pen tip.
Your interactive pen(s) work just like a mouse when controlling your desktop functions on your PC. The cursor works in exactly the same way when manipulated with the pen as it does when using the mouse with the following exceptions:

-To double click you simply double tap the pen tip on the icon you wish to activate.

-Right clicking is achieved by pressing the pen tip on the board and holding for about three seconds.

**Step 3** – Activate any software packages that you wish to use interactively. You are able to control any functions of your PC with your pen(s) from the board so you can maintain a front-of-classroom presence during the entire lesson. Please see the following section for details on Easy Interactive Tools.

### Easy Interactive Tools

The Easy Interactive Tools software package that comes with your Epson 485wi projector has many great tools for a classroom environment. To open these tools, first go to your start menu.

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Once you have your Start Menu open, go to your Programs (or All Programs) list and select the Epson Projector folder.

You should see the Easy Interactive Tools program listed under the Epson folder.
The Toolbar will appear either on the left or right side of your desktop and will look like the following image.

There will also be an arrow on your desktop which appears on the opposite side than the toolbar. This arrow allows you to easily switch the toolbar from one side of your desktop to the other if any of the images from your desktop are blocked for any reason.
The following is a list of the icons on the toolbar and what each icon's function is.

Switch to Interactive mode

Switch to Whiteboard mode

Toggle between Mouse and Pen modes

Save the current screen

Undo multiple operations (one at a time)

Redo multiple operations (one at a time)

Page up in a browser or other software program

Page down in a browser or other software program

Display the image from a document camera connected to the PC via USB

Use an on-screen keyboard to enter text

Use the magnifier to display an enlarged view of the image at the center of the screen

Display additional tools for saving, printing and more

Insert a circle, square, triangle or other shape
Change custom pen color and width

Write or draw with custom pen

Change highlighter pen color and width

Write or draw with transparent highlighter pen

Write or draw with black pen (fine point on left, thick point on right)

Write or draw with red pen (fine point on left, thick point on right)

Write or draw with blue pen (fine point on left, thick point on right)

Use the eraser (thin width on left, thick width on right)

Clear all annotations (select Undo to restore annotations)

Toggle between hiding the toolbar after use and showing it continuously

Minimize the toolbar

Exit Easy Interactive Tools
The menu that appears when you select the icon to change color and width is pictured below.

When you select the Whiteboard mode icon you will get another series of icons. The appearance and function of these icons is detailed below.

- Switch to interactive mode
- Switch to whiteboard mode
- Select from 6 background patterns and 3 solid colors, or display an image file or an image from a document camera
- Save the current screen
Undo multiple operations (one at a time)
Redo multiple operations (one at a time)
Display a list of pages currently being edited
Open a new page
Insert an image from a file or from a document camera connected to the computer
Delete the current page
Use the magnifier to display an enlarged view of the image at the center of the screen
Display a cursor that you can use to adjust the size or position of an inserted image
Display additional tools for saving, printing, and more
Insert a circle, square, triangle, or other shape

When you select the Shapes icon, the following menu appears.

Select the line width, color, and shape you want to create, or select the Line tool to define your own shape.

Drag the pen on the projection surface to draw the shape you want.
When you select the Toolbox icon from either the Interactive mode or Whiteboard mode, you will see the following menu.

- Display a spotlight effect that hides most of the image and reveals a circular area. Drag the spotlight frame to reveal different parts of the image.
- Cover the projected image with a shade. Drag the sides to move or resize the shaded area.
- Print the currently displayed image. In whiteboard mode, you can print all of the current pages or select the ones you want.
- Open the settings screen, which lets you select general settings, language, and settings for saving your pages.
- Change the next pen tap to a right-click (interactive mouse mode only).
- Display Help information for Easy Interactive Tools (interactive mouse mode only).
You can display thumbnail images of the pages you are working with in the current Easy Interactive Tools session.

Select the Page list tool. Thumbnail images of the current pages open on the side of your screen:

To keep the page list open, select the icon.
To close the page list, select the X in the upper right corner.

You can save any or all of the pages you are working with for future reference or to update as lessons advance by following the instructions listed below. These images can be saved as .jpg, .bmp, .png or .pdf files.

To save as .jpg files in your Documents> Easy Interactive Tools folder, simply select the Save tool. Easy Interactive Tools names your file automatically based on the date and time. You can save the current screen with annotations in interactive mode, or all the pages in the current session in whiteboard mode.
You can also select other locations and formats for saving your files, as described here. If you save as PDF, for example, all your whiteboard pages are combined in one file.

Select the **Keyboard tool.** The on-screen keyboard is displayed.

Select the **Other tools icon.** You see additional tools.

Select the **Settings tool.** The Settings window opens.

Select the **Save Settings tab.** You see a screen like the following:

![Settings window](image)

Select the location, file name, and file type for saving annotation mode and whiteboard mode pages. The date and time are added automatically. If you want to select different settings each time you save, select the **Check when saving** checkbox.

Select **OK** to close the Settings window.
When you want to save, select the Save tool. If you selected Check when saving, the on-screen keyboard is displayed, along with a window like the following:

![Save As Window]

Select the location and file type and enter a file name using the on-screen keyboard if necessary.

Select Save.
Remote Control

The following is a detailed breakdown of the buttons and features of the remote control for your Epson 485wi. The listed items highlighted in Red are the most commonly used functions of the remote.

1 – Power Button

2 - Computer button (cycles through connected computer sources)

3 - Video button (cycles through connected video sources)

4 - Numeric buttons (enter numbers)

5 - Auto button (automatically adjusts position, tracking, and sync settings)

6 - Aspect button (selects the image aspect ratio)

7 - Num button (when held down, switches numeric buttons to number function)

8 - Menu button (accesses projector menu system)
9 – Arrow buttons (move through on-screen options and control wireless mouse functions)
10 – Enter button (selects options and controls wireless mouse functions)
11 – User button (customizable for different functions)
12 – Page up/down buttons (control presentation slides)
13 – E-Zoom +/- buttons (zoom into and out of the image)
14 – A/V Mute button (turns off picture and sound)
15 – Help button (accesses projector help information)
16 – Freeze button (stops video action)
17 – Volume up/down buttons (adjust speaker volume)
18 – Pointer button (activates on-screen pointer)
19 – Esc button (cancels/exits functions and controls wireless mouse functions)
20 – Color Mode button (selects display modes)
21 – LAN button
22 – USB button (cycles through connected USB sources)
23 - Source Search button (searches for connected sources)

The following section details some of the more advanced operations of the Epson 485wi projector.

**Calibration** – The AV Team calibrates the 485wi during initial installation and because these are fixed mount projectors, you should only need to recalibrate every so often. However, should the need to recalibrate arise, the instructions for calibrating the 485wi are listed below.
Locate and press the User button on the remote. You will see a menu like the image below.

You should not need to adjust the focus or change the image settings, simply hit the Enter button on the remote to begin the calibration process. You will see a series of white horizontal lines and hear the projector taking pictures of these lines to automatically adjust itself to the projected grid. Once this process is complete, test the calibration with the interactive pen(s). If the cursor still does not meet the pen tip, you may use the manual calibration feature as detailed below.

Press the **Menu** button, select the **Extended** menu, and press **Enter**.
Select the Easy Interactive Function setting and press Enter.

Select Manual Calibration and press Enter.

Again, you should not need to adjust the focus as this has been done during initial installation.

Press Enter to select Yes. A flashing green circle appears in the upper left corner of your projected image.

Touch the center of the circle with the tip of the pen. The circle disappears, and you see another circle lower than the first one.
Touch the center of the next circle and then repeat. When you get to the bottom of the column, the next circle appears at the top of a new column.

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.

Continue until all of the circles disappear.

After this process is complete, it will take a moment for the projector to re-establish its connection with the PC. Once the connection is re-established, test the calibration by checking if the cursor lines up with the pen tip. Be sure to hold the pen so that the tip is pointed straight at the board and that you are not coming in at an angle to ensure the best operation.