Contents

1 About this guide ................................................................. 4

2 Overview ................................................................. 5
  2.1 About Grid video walls ..................................................... 5
  2.2 About artistic video walls .................................................... 6
  2.3 About the Bezel Adjustment Grid ....................................... 6
  2.4 Confirming the monitor orientation and position ..................... 8
  2.5 Confirming the display ratio ................................................ 9
  2.6 Aligning the grid across monitors ......................................... 9

3 Adjusting grid wall bezels in Matrox PowerWall (single device mode) .... 10
  3.1 Grid wall creation and setup ............................................... 11
  3.2 Enabling the Bezel Adjustment Grid .................................... 13
  3.3 Adjusting the relative source position .................................... 15
  3.4 Scaling and centering the source ........................................ 20
  3.5 Validating your display wall ................................................ 21

4 Adjusting grid wall bezels in Matrox PowerWall (Multi-device mode) ....... 22
  4.1 Grid wall creation and setup ............................................... 22
  4.2 Add media sources .......................................................... 24
  4.3 Adding devices ............................................................... 26
  4.4 Adjusting the bezels ......................................................... 27
  4.5 Validate your display wall .................................................. 28

5 Adjusting artistic wall bezels in Matrox PowerWall (Single device mode) ... 29
  5.1 Artistic wall creation and setup ............................................ 30
  5.2 Enabling the Bezel Adjustment Grid .................................... 32
  5.3 Adjusting the monitor source position ................................... 34
  5.4 Validate your display wall .................................................. 41

6 Adjusting artistic wall bezels in Matrox PowerWall (Multi-device mode) ..... 42
  6.1 Artistic wall creation and setup ............................................ 42
  6.2 Add media sources .......................................................... 43
  6.3 Adding devices ............................................................... 45
  6.4 Enabling the Bezel Adjustment Grid .................................... 45
  6.5 Adjusting the monitor source position ................................... 47
6.6 Validate your display wall ......................................................................................................54

7 Disclaimer ........................................................................................................................................56
1 About this guide

This guide is intended as a supplement to the main documentation for QuadHead2Go and Matrox PowerWall.

Before using this guide, you should have already set up your physical video wall, connected the monitors to your QuadHead2Go device, and installed the Matrox PowerWall software.

For more information on how to install, configure, and use QuadHead2Go or Matrox PowerWall, refer to the specific documentation for each product.
2 Overview

This guide describes how to use the QuadHead2Go Bezel Adjustment grid to adjust your video wall setup to account for the gaps between monitors. This will allow you to optimize your video wall setup to get the best possible visual experience.

There are two kinds of video walls:

- **Grid video walls**: Two or more monitors are combined to form a larger rectangular video wall. All monitors are the same size and ideally the same model.

- **Artistic video walls**: Two or more monitors are combined to form a more complex video wall that can take different shapes. Monitors can be different sizes, and may be placed farther apart than a simple grid video wall.

The adjustment process is similar for both types of video walls, but artistic video walls require more planning and fine tuning to implement successfully.

2.1 About Grid video walls

A grid video wall uses two or more monitors to create a continuous display across one large screen in either portrait or landscape orientation, such as in the examples below:

![Landscape 2 x 2 Video Wall](image1)
![Landscape 1 x 2 Video Wall](image2)

To get the best results when building a grid video wall, your monitors should be as close to each other as the physical space and environment allow. However, the video/image quality may still be affected by the gaps between the monitors, and the physical bezels on the monitors themselves. The Bezel Adjustment Grid along with the Bezel Management feature in the Matrox PowerWall software will help you adjust and optimize your setup to account for the gaps and monitor bezels.
2.2 About artistic video walls

Artistic video walls do not follow a typical grid or rectangular layout, and can include a variety of monitors of different sizes. Unlike grid video walls, artistic video walls may also include monitors placed in different orientations (portrait or landscape) within the same setup. As such, you must take more time to plan your setup and bezel adjustment may be more challenging depending on the complexity of the wall you want.

The Bezel Adjustment Grid along with the Bezel Management feature in the Matrox PowerWall software will help you adjust and optimize your setup to account for the gaps and monitor bezels.

2.3 About the Bezel Adjustment Grid

The Bezel Adjustment Grid is a pre-generated grid pattern that can temporarily replace the Input Video source. The grid is composed of:

- Gray background.
- Horizontal and vertical lines alternating in black or dotted black and white.
- Diagonal colored lines.
- Blue outer edge border (for single device only).
- Red diagonal lines crossing in the center of the Input Video source.
- X (in green) and Y (in yellow) coordinate for each bloc row and column.
- Centered overlay ID identifying each display output number (not impacted by any scaling/positioning).

You enable the grid by pressing Button 1 on the QuadHead2Go device, and selecting it from the Source Selection menu, or with the PowerWall application via the Device Management section.
This Bezel Adjustment Grid can calibrate one or more QuadHead2Go devices that share the same input source (e.g., using clone mode or a splitter device). It can also calibrate between multiple QuadHead2Go devices each with a different input source.

### 2.3.1 Example of the Bezel Adjustment Grid

The Bezel Adjustment Grid automatically creates a pattern matching your video wall configuration. The example below shows an example for various Grid video walls.

![A typical 2 x 2 landscape grid](image1)

![A typical 3 x 1 portrait grid](image2)

![A typical 2 x 1 landscape grid](image3)

### 2.3.2 Features of the Bezel Adjustment Grid

The Bezel Adjustment Grid includes several elements to help you align the input source for the physical monitor setup:

- Vertical and horizontal lines help with orthogonal (right-angle) positioning of the monitors.
- Diagonal lines help with adjusting the spacing between monitors.
- X and Y coordinates help with positioning when there are large gaps between monitors.

### 2.4 Confirming the monitor orientation and position

Use the outside blue border of the Bezel Adjustment Grid along with the overlay ID (1 and 2 in this example) to confirm that monitor position and orientation is correct. If it is not correct, the monitor’s orientation can be corrected within Matrox PowerWall or by physically rotating the monitor.
2.5 Confirming the display ratio

The Bezel Adjustment Grid pattern uses a square pixel aspect ratio (1:1). If your source pixel aspect ratio is also square, then the pattern formed by the horizontal and vertical lines in the grid should always appear as square. Non-square pattern, indicates a distortion of the image most likely due to an invalid display resolution or bezel adjustment. For example, the monitor’s display settings may be in “wide mode” which stretches the image to fit the screen size.

![Image of Bezel Adjustment Grid pattern]

This image is stretched. The pattern appears as a rectangle instead of a square.

2.6 Aligning the grid across monitors

Horizontal, vertical, and diagonal lines crossing gaps between two monitors help verify that the image is properly displayed.

If the monitors are close enough to each other, you can use a straight object like a ruler, pen, or even a piece of paper to help you visually verify that the lines would connect if the gap was not there. From a distance, you can take a picture and verify the lines are properly aligned with it.

In the example below, there are two pairs of monitors positioned vertically. One pair is properly aligned and the other pair is not. The white line represents the small physical gap between the monitors. The black region represents the physical frame of the monitors. The green lines should appear aligned across the gap, as if the gap was not there at all (as shown in the image on the right).

![Image of aligned and unaligned grids]

Not aligned. Green lines do not line up between top and bottom monitors.

Aligned. Green lines correctly line up between top and bottom monitors.
3 Adjusting grid wall bezels in Matrox PowerWall (single device mode)

The following Grid Wall setup will be used as an example in this section.

The input's source media is in UHD resolution, connected to one QuadHead2Go device with four HD monitors (24") in 2x2 landscape mode.
3.1 Grid wall creation and setup

This section describes the initial setup of your **Single device design** grid wall in Matrox PowerWall.

1. Open Matrox PowerWall, click **File > New design > Single device design**, then click **OK**.

![Image of New design dialog]

2. Give your media a name, select your source image, then click **OK**.

![Image of Add background media dialog]

The source image is for use within the Matrox PowerWall application only.
3 Select your desired wall configuration, then click **OK**.

The Matrox PowerWall window opens to show the Physical display and the Source display for the selected configuration. You can access all settings from the sliding panel Menu.

This guide will focus on the physical view window. The source window view is used for more complex cases.
3.2 Enabling the Bezel Adjustment Grid

For live bezel adjustment, the Matrox PowerWall design must be assigned to a physical device. Uploading the design will send the current design information to the device. This step can be done after each change in the design to see its impact, and must also be done prior to switching to Live mode.

1. Assign the design to a device.

   a. Go to the Device data transfer tab.
   b. Select a device from the list.
   c. Upload your design to the selected devices.
Enable the Bezel adjustment grid.

a Go to the Device management tab.

b From the Input source list, select Bezel adjustment grid.

c Click Apply.

Your video wall monitors will now display the Bezel Adjustment Grid with each monitor showing an overlay ID (monitor number):
### 3.3 Adjusting the relative source position

1. Specify the models for all monitors used for your wall.

   ![Output settings tab](image)

   1: Output settings tab  
   2: Monitor management section  
   3: List of monitor manufacturers and models

   **a** Go to the **Output settings** tab.

   **b** From the **Monitor management** section, select the **Manufacturer** and **Model** for the currently selected monitor.

   If you can’t find your monitor(s) listed, select the generic manufacturer option with the model that matches the diagonal size of your actual monitor(s).

   **c** Repeat for each of your active monitors.

   With a specific monitor model, bezel information will be available and used for the setup of the monitors, resulting in minimal adjustment. The generic model will only show the active portion of the monitor, and more adjustment will be needed to account for the monitor’s bezel. In either case, Matrox PowerWall allows you to achieve the same end result.
2 If your monitors and media source are no longer aligned after selecting your monitor model, you can reposition them.

- In the physical view, reposition each monitor relative to the others. The monitors will snap into position if the snap feature is enabled in the Settings menu.
- Go to the Input management tab.
- Select Keep aspect ratio to prevent a distorted output.
- Click Maximize to resize each monitor to the best fit of the source.
After changing the monitor model or media source size, you must reset the width and height of each monitor to reset the scaling factor.

a Go to the **Output settings** tab

b From the **Source position** section, click **Reset**.

c Repeat for each active monitor.

4 Enable **Translate mode** and **Live mode**.
a Go to the **Output settings** tab.

b From the **Source adjustments** section, select **Translate** from the **Mode** list.

c Enable **Live** mode to immediately apply the adjustment to the monitors.

5 Adjust the bezels in **Live** mode.

1: Live mode enable/disable
2: Translation adjustments

a Make sure **Live** mode is enabled.

b While looking at the physical display, make the needed **Translation** adjustments using the **Top**, **Bottom**, **Left**, and **Right** positions per monitor.

c Use the grid lines displayed on the monitors to help make the proper adjustments. At this point, you may see black bars appearing on some monitor edges.
d Adjustment should be done in the following sequence with the top-left monitor acting as the initial reference point. Translate the other monitors one at a time using the grid lines shared with the reference monitor. After the second monitor is adjusted, it also becomes a reference for its shared edges with the other monitors. Continue until you have successfully adjusted all monitors.

6 (Optional) Adjust the bezels when the Source position is known. This is useful when you know the monitors' bezel sizes in pixels.

a Go to the Output settings tab.

b From the Source position section, enter the Left and Top positions for each monitor.

c Upload the design for your changes to take effect.
3.4 Scaling and centering the source

1. Disable **Live** mode to apply the live mode adjustment to the design.

The change will be displayed in the Physical view and Source view windows. Some monitors may be outside the media's source window (black bars around the edges).

2. Scale the source to cover all the monitors’ active pixels.

   a. Go to the **Input Management** tab.
   b. Select **Keep aspect ratio**.
c  Click **Maximize**.

After the source is stretched, some of the pixels from the source will no longer be visible.

3  Center the monitor source.

![Image](image.png)

1: Output settings tab  
2: Source position section  
3: Left/top settings

a  Go to the **Output Settings** tab.

b  From the **Source position** section, apply the same horizontal and/or vertical offset to all monitors.

c  Upload the design for your changes to take effect (you can also do this in **Live** mode).

### 3.5 Validating your display wall

After you have adjusted the display wall, verify the following:

- All horizontal and vertical lines are aligned across the gaps.
- All diagonal lines are aligned across the gaps.
- The vertical and horizontal line form square patterns (not rectangles) when the source has a 1:1 pixel ratio.
- For an optimal fit, the blue border should be visible horizontally or vertically

Once the validation process is complete, you can remove the Bezel Adjustment Grid.

1  Go to the **Device management** tab.

2  From the **Input source** list, select **Video input**, then click **Apply**.
4 Adjusting grid wall bezels in Matrox PowerWall (Multi-device mode)

The following Multi-device Grid Wall setup will be used as an example in this section:

There are two source media inputs, both UHD resolution, each connected to a QuadHead2Go device with four similar HD monitors (39") in a 2x2 landscape mode.

4.1 Grid wall creation and setup

This section describes the initial setup of your Multi device design grid wall in Matrox PowerWall.

1. Open Matrox PowerWall, click File > New design > Multi device design.
2. Define the total size of your Physical wall (you can change these dimensions later).
3. Click OK.
The PowerWall window opens with your physical wall represented in light gray.

- You add and select a media source from the Media panel.
- You add and select a device from the Device panel.
- The light gray area represents the Physical view of your video wall.
- Under the Physical view is the Source view section.
- Access the PowerWall settings from the sliding Menu panel.

This guide will focus on the physical view window. The source view window is used for more complex cases.
4.2 Add media sources

1. Click the (+) button in the PowerWall window to add a new media source.

2. Give your media a name, select your Source image, define the Aspect ratio and Size, then click OK.

The physical size represents the dimension of the source applied on the physical video wall. The source image is for use within the Matrox PowerWall application only. When you have multiple media sources as part of a design, you can simplify the design process by assigning a specific source image for each media source.
3 Position your media within the physical wall to create a continuous wall display.

- For each media source displayed in the Media panel, use your mouse to reposition it in the physical view as needed. It may help to enable Snap from the Settings menu.
- Instead of using your mouse, you can also go to the Input management tab to fine-tune the positioning and size adjustments.
4.3 Adding devices

You must associate one or more devices to each media source.

1. From the **Media panel**, click on one of the available media sources.

2. From the **Device panel**, click the (+) button to add a new device to associate to your media source.

   A media source can have multiple devices associated to it when all devices have a common source (e.g., a cloned source using a splitter device or with a multi-output GPU).

3. Assign your devices.
a Go to the **Device data transfer** tab.

b Select a device from the list.

c Upload your design to the selected devices.

**4** Enable the **Bezel adjustment grid**.

For each device (click on a device in the **Device panel**), go to the **Device management** tab.

From the **Input source** list, select **Bezel adjustment grid**.

Click **Apply**.

Your video wall monitors will now display the Bezel Adjustment Grid, with each monitor showing an overlay ID (device letter and monitor number).

### 4.4 Adjusting the bezels

Bezel adjustment in **Multi device** mode is mostly the same as for **Single device** mode (see "Adjusting grid wall bezels in Matrox PowerWall (single device mode)" on page 10) with the following additional details and best practices:
Start adjustment with the topmost-left monitor.

Adjust all monitors for one device before moving to the next device.

The same bezel adjustment grid will be shared across all devices so you can adjust the bezels between them.

You can adjust the dimensions of your physical wall at any time (via the Input management tab or the main PowerWall application menu) to more closely fit the monitors once they are aligned.

4.5 Validate your display wall

After you have adjusted the display wall, verify the following:

- All horizontal and vertical lines are aligned across the gaps.
- All diagonal lines are aligned across the gaps.
- The vertical and horizontal line form square patterns (not rectangles) when the source has a 1:1 pixel ratio.
- On a large video wall, it is possible for the grid to become unaligned depending on the viewing angle. Make your adjustments and verification from the same preferred viewing position.

Once the validation process is complete, you can remove the Bezel Adjustment Grid.

1. Go to the Device management tab.
2. From the Input source list, select Video input, then click Apply.
5 Adjusting artistic wall bezels in Matrox PowerWall (Single device mode)

The following Artistic Wall setup will be used as an example in this section:

The input’s source media is in UHD resolution, connected to one QuadHead2Go device with four HD monitors (two 27” and two 39” generic models) in both landscape and portrait modes.
5.1 Artistic wall creation and setup

This section describes the initial setup of your Single device design artistic wall in Matrox PowerWall.

1. Open Matrox PowerWall, click File > New design, select Single device design, then click OK.

2. Give your media a name, select your source image, then click OK.
3 Select your desired wall configuration, then click **OK**.

The Matrox PowerWall window opens to show the Physical display and the Source display for the selected configuration. You can access all settings from the sliding panel Menu.

This guide will focus on the physical view window. The Source view window is used for more complex cases.
5.2 Enabling the Bezel Adjustment Grid

For live bezel adjustment, the Matrox PowerWall design must be assigned to a physical device. Uploading the design will send the current design information to the device. This step can be done after each change in the design to see its impact, and must also be done prior to switching to Live mode.

1. Assign the design to a device.

   a. Go to the Device data transfer tab.

   b. Select a device from the list.

   c. Upload your design to the selected devices.
2 Enable the Bezel adjustment grid.

1: Device management tab
2: Input source list
3: Apply button

a Go to the Device management tab.

b From the Input source list, select Bezel adjustment grid.

c Click Apply.

Your video wall monitors will now display the Bezel Adjustment Grid with each monitor showing an overlay ID (monitor number):
5.3 Adjusting the monitor source position

Specify the models for all monitors used for your artistic wall.

- Go to the **Output settings** tab.

- From the **Monitor management** section, select the **Manufacturer** and **Model** for the currently selected monitor.
  
  If you can’t find your monitor(s) listed, select the generic manufacturer option with the model that matches the diagonal size of your actual monitor(s).

- Repeat for each of your active monitors.

Some deformation can occur if the monitor model information is incorrect (e.g. when using a generic manufacturer). Verify that all the monitors’ Bezel Adjustment Grid lines have the same spacing. If they do not, you need to adjust the mismatched monitors.
2 If needed, adjust mismatched monitors.

a Go to the Output settings tab.

b From the Source adjustments section, select Zoom.

c Enable Live mode.

d Adjust monitor scaling as needed until it has a similar grid spacing size as the other monitors.
   In Live mode, any adjustment of the source will automatically be applied, with the new scaling showing immediately on the monitors.

e When finished, disable Live mode.
3 Set the initial position of the monitors of your artistic wall.

a Click the Output settings tab.

b Disable the Output for each monitor you don’t need.

c Correct the Rotation for each rotated monitor.

d In the Physical view, use your mouse to reposition each monitor to its approximate correct position.

e (Optional) You can also set the monitor position in pixels from the Source position section.

f For a video wall with spacing between the monitors, you may want to disable the snap feature in the Settings menu to make fine adjustments.
4 Re-adjust and resize the media source.

   a Go to the Input management tab.
   b Select Keep aspect ratio to prevent a distorted output.
   c Click Maximize to resize each monitor to the best fit of the source.

5 After changing the monitor model or media source size, you must reset the width and height of each monitor.
a  Go to the **Output settings** tab

b  From the **Source position** section, click **Reset**.

c  Repeat for each active monitor.

d  Go to the **Device data transfer** tab to upload the design changes to the device.

6  Enable **Live** mode.

---

a  Go to the **Output settings** tab

b  From the **Source adjustments** section, select **Translate** from the **Mode** list.

c  Enable **Live** mode to immediately apply the adjustment to the monitors.
Adjust monitor positions in **Live** mode.

**a** Make sure **Live** mode is enabled.

**b** While looking at the physical display, make the needed **Translation adjustments** using the Top, Bottom, Left, and Right positions per monitor.

**c** Use the grid lines to help make the proper adjustments. At this point, you may see black bars appearing on some monitor edges.

**d** Adjustment should be done in the following sequence with the top-left monitor acting as the initial reference point. Translate the other monitors one at a time using the grid lines shared with the reference monitor. After the second monitor is adjusted, it also becomes a reference for its shared edges with the other monitors. Continue until you have successfully adjusted all four monitors.

**e** Disable **Live** mode to see the change reflected in the Physical view.
Resize the media source.
If the monitors’ positions are outside the source area (i.e. showing black bars on their edges), or too far inside the source area, you can scale the source for a better fit.

a Go to the **Input management** tab.

b Select **Keep aspect ratio**.

c Click **Maximize**.

The media source will be stretched to cover every monitor’s active pixel.
9 Re-center the monitors in the source. If needed, the monitors can be repositioned in the source (horizontally or vertically) to be centered or better positioned over it.

a Go to the Output settings tab.

b From the Source position section, apply the same horizontal and vertical offset values for all monitors.

c Go to the Device data transfer tab to upload your design to the device.

You can also do this all in Live mode using Translation.

5.4 Validate your display wall

After you have adjusted the display wall, verify the following:

- All horizontal and vertical lines are aligned across the gaps.
- All diagonal lines are aligned across the gaps.
- The vertical and horizontal line form square patterns (not rectangles) when the source has a 1:1 pixel ratio.

Once the validation process is complete, you can remove the Bezel Adjustment Grid and replace it with your desired video input.

1 Go to the Device management tab.

2 From the Input source list, select Video input, then click Apply.
The following Artistic Wall setup will be used as an example in this section.

The inputs are cloned source media in UHD resolution, connected to two QuadHead2Go devices, for a total of six monitors. One QuadHead2Go device is using all four of its outputs, three 27” generic monitors and one 19” generic monitor. The other QuadHead2Go device is using two of its outputs, both with 27” generic monitors.

### 6.1 Artistic wall creation and setup

This section describes the initial setup of your Multi device design artistic wall in Matrox PowerWall.

1. In Matrox PowerWall, click File > New design > Multi device design.
2. Define the total size of your Physical wall (you can change these dimensions later).
3. Click OK.
The PowerWall window opens with your physical wall represented in light gray.

- You add and select a media source from the **Media panel**.
- You add and select a device from the **Device panel**.
- The light gray area represents the **Physical view** of your video wall.
- Under the Physical view is the **Source view** section.
- Access the PowerWall settings from the sliding **Menu panel**.

This guide will focus on the physical view window. The source view window is used for more complex cases.

### 6.2 Add media sources

A media source represents a unique input source driving one or more devices.

1. From the **Media panel**, click the (+) button to add a new media source.
The **Add background media** window opens.

2. Give your media a name, select your **Source** image, define the **Aspect ratio** and **Size**, then click **OK**.

The physical size represents the dimension of the source applied on the physical video wall. The source image is for use within the Matrox PowerWall application only. When you have multiple media sources as part of a design, you can simplify the design process by assigning a specific source image for each media source.
### 6.3 Adding devices

You must associate one or more devices to each media source.

1. From the **Media panel**, click on one of the available media sources.

2. From the **Device panel**, click the (+) button to add a new device to associate to your media source.

   A media source can have multiple devices associated to it when all devices have a common source (e.g. a cloned source using a splitter device or with a multi-output GPU).

### 6.4 Enabling the Bezel Adjustment Grid

For live bezel adjustment, the Matrox PowerWall design must be assigned to a physical device. Uploading the design will send the current design information to the device. This step can be done after each change in the design to see its impact, and must also be done prior to switching to Live mode.
1 Assign the design to a device.

   a Go to the Device data transfer tab.
   b Select a device from the list.
   c Upload your design to the selected devices.

2 Enable the Bezel adjustment grid.

   a Go to the Device data transfer tab.
   b List of physical devices with an assigned letter
   c Upload button

   a Device management tab
   b Input source list
   c Apply button
a For each device (click on a device in the Device panel), go to the Device management tab.

b From the Input source list, select Bezel adjustment grid.

c Click Apply.

Your video wall monitors will now display the Bezel Adjustment Grid, with each monitor showing an overlay ID (device letter and monitor number).

6.5 Adjusting the monitor source position

1 Specify the models for all monitors used for your artistic wall.

a For each device (click on a device in the Device panel), go to the Output settings tab.

b From the Monitor management section, select the Manufacturer and Model for the currently selected monitor. If you can't find your monitor(s) listed, select the generic manufacturer option with the model that matches the diagonal size of your actual monitor(s).

c Repeat for each of your active monitors.
Some deformation can occur if the monitor model information is incorrect (e.g. when using a generic manufacturer). Verify that all the monitors’ Bezel Adjustment Grid lines have the same spacing. If they do not, you need to adjust the mismatched monitors.

2 If needed, looking at the physical display, adjust mismatched monitors.

- Go to the Output settings tab.
- From the Source adjustments section, select Zoom.
- Enable Live mode.
- Adjust monitor scaling as needed until it has a similar grid spacing size as the other monitors.
  In Live mode, any adjustment of the source will automatically be applied, with the new scaling showing immediately on the monitors.
- When finished, disable Live mode.
3 Set the initial position of the monitors of your artistic wall.

- For each device (click on a device in the **Device panel**), go to the **Output settings** tab.
- Disable the **Output** for each monitor you don't need.
- Correct the **Rotation** for each rotated monitor.
- In the **Physical view**, use your mouse to reposition each monitor to its approximate correct position.
- (Optional) You can also set the monitor position in pixels from the **Source position** section.
- In the **Physical view**, use your mouse to resize the media source if needed.
- Make sure each monitor is positioned over its associated media source. For a video wall with spacing between the monitors, you may want to disable the snap feature in the **Settings menu** to make fine adjustments.
4 After changing the monitor model or media source size, you must reset the width and height of each monitor.

**a** For each device (click on a device in the Device panel), go to the **Output settings** tab.

**b** From the **Source position** section, click **Reset**.

**c** Repeat for each of your active monitors.

**d** Go to the **Device data transfer** tab to upload the design changes to the device.
5 Enable **Live** mode.

![Diagram showing Live mode enable/disable, Output settings tab, Source adjustments section, and Mode list steps]

a For each device (click on a device in the **Device panel**), go to the **Output settings** tab.

b From the **Source adjustments** section, select **Translate** from the **Mode** list.

c Enable **Live** mode to immediately apply the adjustment to the monitors.

6 Adjust monitor positions in **Live** mode.

![Diagram showing Live mode enable/disable and Translation adjustments steps]
a. Make sure **Live** mode is enabled.

b. Make the needed **Translation adjustments** using the Top, Bottom, Left, and Right positions per monitor.

c. Use the grid lines to help make the proper adjustments. At this point, you may see black bars appearing on some monitor edges.

d. Adjustment should be done in the following sequence with the top-left monitor acting as the initial reference point. Translate the other monitors one at a time using the grid lines shared with the reference monitor. After the second monitor is adjusted, it also becomes a reference for its shared edges with the other monitors. Continue until you have successfully adjusted all four monitors.

![Diagram](image)

- (a) Example image 1
- (b) Example image 2
- (c) Example image 3
- (d) Example image 4

e. Disable **Live** mode to see the change reflected in the Physical view.
7  Resize the media source.

If the monitors’ positions are outside the source area (i.e. showing black bars on their edges), or too far inside the source area, you can scale the source for a better fit.

a  For each media source (click on a media source in the Media panel), go to the Input management tab.

b  Select Keep aspect ratio.

c  Use your mouse to resize the media source as needed to get a correct fit. The media source will be stretched to cover every monitor’s active pixel.

d  If needed, go to Edit > Resize physical wall to update the Physical wall’s dimensions to match the new media source size.
8 Re-center the monitors in the source.
   If needed, the monitors can be repositioned in the source (horizontally or vertically) to be centered or better positioned over it.

   ![Diagram showing monitor re-centering process]
   
   1: Output settings tab
   2: Source position
   3: Horizontal and vertical offsets
   4: Device data transfer tab

   a Go to the **Output settings** tab.
   b From the **Source position** section, apply the same horizontal and vertical offset values for all monitors.
   c Go to the **Device data transfer** tab to upload your design to the device.

   You can also do this all in **Live** mode using **Translation**.

**6.6 Validate your display wall**

After you have adjusted the display wall, verify the following:

- All horizontal and vertical lines are aligned across the gaps.
- All diagonal lines are aligned across the gaps.
- The vertical and horizontal line form square patterns (not rectangles) when the source has a 1:1 pixel ratio
- On a large video wall, it is possible for the grid to become unaligned depending on the viewing angle. Make your adjustments and verification from the same preferred viewing position.
Once the validation process is complete, you can remove the Bezel Adjustment Grid and replace it with your desired video input.

1. Go to the **Device management** tab.

2. From the **Input source** list, select **Video input**, then click **Apply**.
7 Disclaimer

Information in this document may contain technical inaccuracies or typographical errors. Information may be changed or updated without notice. Matrox reserves the right to make improvements and/or changes in the products, programs and/or specifications described in this information at any time without notice. All trademarks and trade names, service marks and logos referenced herein belong to their respective owners.

Copyright © 2021 Matrox Graphics Inc. All rights reserved. Matrox and Matrox product names are registered trademarks and/or trademarks of Matrox Electronics Systems Ltd. and/or Matrox Graphics Inc. in Canada and other countries. All other company and product names are registered trademarks and/or trademarks of their respective owners.