Dell Display and Peripheral Manager on Mac

User's Guide

NOTE: A NOTE indicates important information that helps you make better use of your computer.

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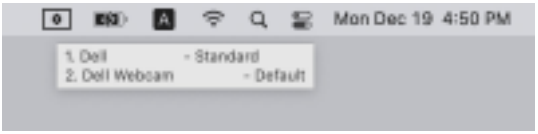
Overview

Dell Display and Peripheral Manager (DDPM) is an Apple macOS application used to manage a monitor or a group of monitors or webcams.

Dell Display and Peripheral Manager allows manual adjustment of the displayed image, assignment of automatic settings, energy management, window organization, image rotation, and other features on selected Dell monitors and webcams.

After installing Dell Display and Peripheral Manager, it runs each time your system starts. A quick access icon is available in the status menu, with information about connected monitors available when you hover your cursor over the icon.



NOTE: Some hardware-dependent features are only available on monitors or webcams that support those features. Refer to your monitors or webcams user guide for information about which features are available.

NOTE: Screenshots in this document are for illustrative purposes only. Some features may not be supported by your monitor or webcam.

Downloading and setting up the Dell Display and Peripheral Manager

Downloading Dell Display and Peripheral Manager

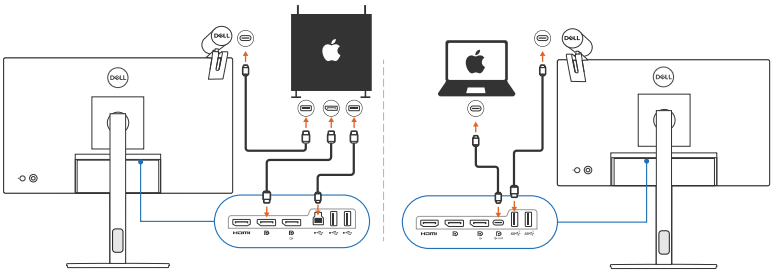
Browse for your monitor or webcam model name, or type it in at **https://www.dell.com/support**. Download Dell Display and Peripheral Manager for Mac from the list of downloads, and install it on your Mac.

You can also visit **https://www.dell.com/support/ddpm** and download the software from the site. The Dell support website detects the OS of the device, and Dell Display and Peripheral Manager download link will appear if you are browsing from a Mac device.

Alternatively, Mac OS can be selected from the Operating System drop-down list.

Connect your monitor and webcam to your Mac

1. Connect your Mac to monitor or webcam as described in your monitor or webcam user guide.



NOTE: Connectivity diagrams are for illustrative purposes only. Refer to your monitor or webcam user guide for complete information about connecting your monitor.

NOTE: Ensure that the USB Type-C cable or USB upstream (USB Type-B) cable is connected between your Mac and your monitor or webcam.

NOTE: For Apple Silicon Mac, ensure that the USB upstream cable is connected between your Mac and your monitor.

Before launching Dell Display and Peripheral Manager

Before launching Dell Display and Peripheral Manager, go to **Others** in your monitor's On-Screen Display menu and ensure that the **DDC/CI** feature is enabled.

Using the Menu Launcher

Clicking Dell Display and Peripheral Manager icon on the status bar opens the **Menu Launcher**. When multiple Dell monitors are connected to the computer, you can select any monitor from the drop-down menu.

The **Menu Launcher** provides quick access to the following commonly used functions:

- **Display**
- **Brightness/Contrast**
- **Color**
- **Easy Arrange**
- **KVM** (optional)
- **Webcam** (if connected)

Display

The following image shows a shortcut link to access the display settings of your computer, and allows you to configure your screen resolution, scale, and layout.

NOTE: Dell Display and Peripheral Manager matches customized System Preferences applied on your Mac.

Brightness/Contrast

Adjust the brightness and contrast (or luminance) level of the selected model. If you have multiple monitors, select the monitor from the drop-down list or move the dialog to the monitor you want to adjust.

Color

Change color preset to suit user preferences on the screen. Click **More** for more settings.

NOTE: For more information, refer to **Setting the monitor display mode**.

Easy Arrange

A list of recommended or recently used layouts and easy memory profiles is displayed for quick selection, as shown in the following image. The **Save Current Layout** function provides a shortcut to customize a new layout by saving the current window arrangement.

Hover the mouse over the profile(s) listed on the **Easy Memory App Profile** to select your profile and apply on the monitor.

KVM

After setting up the KVM, you can switch keyboard and mouse between computers. Refer to the section **Setting up the USB KVM** to use the **Setup wizard**.

Webcam

When more than one webcams are connected to the computer, select the webcam from the model drop-down list to configure the webcam.

Feature	Function	Description
Quick DDPM Access	Shortcut key to launch **Menu Launcher**	• Ctrl+Shift+D
	Select monitor when multiple monitors are connected	• When more than one monitors are connected to the computer, select the monitor from the model drop-down list to configure the monitor. • When the monitor is selected from the UI, the selected monitor screen will be dimmed momentarily, showing a monitor icon with the model name on the screen to indicate the physical screen selected. • Press Ctrl + Shift + D to bring up the **Menu Launcher** of the monitor where the mouse pointer is currently located.
	Select webcam when more than one webcams are connected	• When more than one webcams are connected to the computer, select the webcam from the model drop-down list to configure the webcam. • When the webcam is selected from the UI, the webcam preview window will be OFF momentarily, showing a webcam icon with the model name on the screen to indicate the webcam selected. • Press Ctrl + Shift + D to bring up the **Menu Launcher** of the webcam where the mouse pointer is currently located.

Launching Dell Display and Peripheral Manager

Launch the Dell Display and Peripheral Manager by one of the following methods:

- Right-click on the DDPM icon on the status bar and select **Open Dell Display and Peripheral Manager**.

- Click DDPM icon from system tray to launch the **Menu Launcher**. To access more features, click on the menu icon to launch the main menu.

Main Menu

A set of menus with sub-menus can be found in the main menu to adjust the DDPM features.

Adjusting the brightness and contrast

On the Dell Display and Peripheral Manager menu, access the **Brightness/ Contrast** menu to change the brightness and contrast levels.

Feature	Function	Description
Brightness/ Contrast	**Brightness** / **Contrast**	· Adjust the monitor's brightness and contrast.
	Enable display matrix control	· Enable this feature to allow you to apply the brightness, contrast and color presets controls to all connected supported monitors.

NOTE: **Enable display matrix control** is active when multiple monitors of the same model are connected.

NOTE: The minimum value of contrast setting is set to 25% to maintain the visibility on the screen.

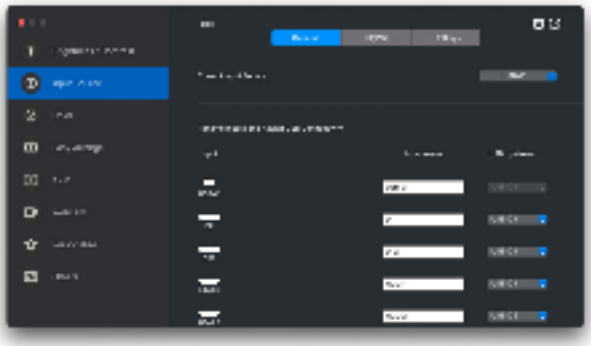
Single monitor connection user interface

Multi-monitor connection - Enable display matrix control

Managing multiple video inputs

The **Input Source** menu allows you to manage multiple video inputs that are connected to your Dell monitor. This makes it easy to switch between inputs while you work on multiple computers.

Under **General**, all of the video input ports available on your monitor are displayed. You can assign each input a name and an USB upstream port.



NOTE: For more information, see your monitor user guide for the available inputs.

Selecting PIP/PBP mode

1. Click the **PIP/PBP** mode to enable the split screen function on supported models.
2. Click **Toggle Between Positions** to change the PIP position.
3. To change the main or sub inputs, first select the main input from the **Input 1** drop-down list, and then select the sub-input from the **Input 2** drop-down list.

4. Click **USB Switch** to switch the USB upstream port that is associated with active input sources.
5. Click **Video Swap** to swap input sources.

Assigning shortcut keys

Assign shortcut keys for quick access to your favorite input and switching between two inputs.

Alternatively, switch the input source from the drop-down list in **Current Input Source**.

Feature	Function	Description
Hotkeys	**Toggle current input source**	• Configure your preferred hotkey (for example, Ctrl+Shift+2) to toggle the input sources. You can also change to your preferred hotkey.
	Favorite Hotkey Inputs	• Configure your preferred hotkey to toggle to your favorite input source. You can also change to your preferred hotkey.
	Hotkey to switch between 2 input sources	• Configure your preferred hotkey (for example, Ctrl+Shift+3) to toggle between the two frequently used input sources. You can also change to your preferred hotkey.
	Swap 2 inputs of PIP/PBP windows	• Configure your preferred hotkey (for example, Opt+8) to swap the PIP/PBP main and sub-input. You can also change to your preferred hotkey.
	Zoom In/Out PBP windows	• Configure your preferred hotkey to zoom in/out the PBP window. You can also change to your preferred hotkey.
	Change PIP position	• Configure your preferred hotkey (for example, Opt+7) to change the position of PIP. You can also change to your preferred hotkey.
	Underscan	• Configure your preferred hotkey to enable or disable underscan. You can also change to your preferred hotkey. **NOTE:** The underscan function is supported only on the following models: • **Dell U4320Q** • **Dell U4323QE**

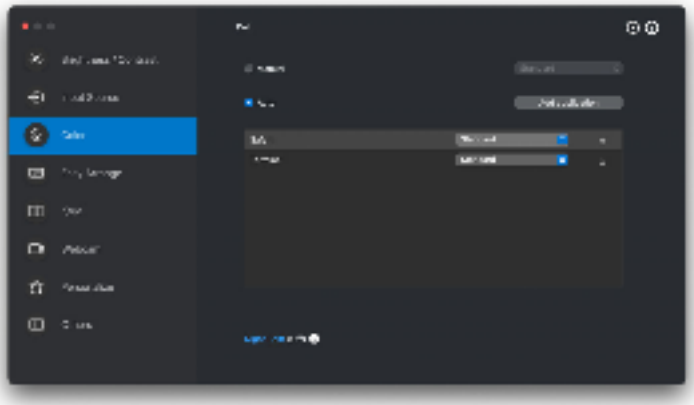
Setting the monitor display mode

The **Color** menu allows you to associate any preset mode with an application. When **Auto** mode is enabled, Dell Display and Peripheral Manager automatically switches to the corresponding preset mode whenever the associated application is activated. The preset mode assigned to a particular application may be the same on each connected monitor, or it can vary from one monitor to another.

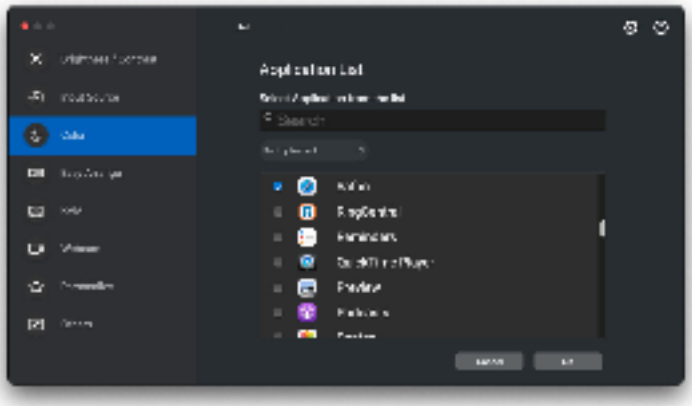
To add a new application to the assignment list, go to finder to search for the application, drag it from the Finder and drop to the current list. Choose the preset from the preset mode drop-down list to associate the preset to the application.

Feature	Function	Description
Color	**Manual**	· Select the preset mode manually from the user interface.
	Auto	· Enable this feature to activate the preset mode automatically when the associated application is selected as the active window. · Click the drop-down list to assign a preset mode to an application.
	Night Shift	· Access **Night Shift** feature to shift the color temperature to show comfortable colors on your display.

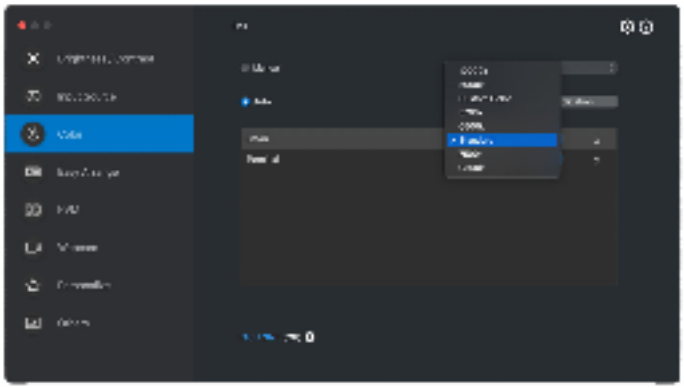
Auto change color preset when using specific application



1. Select **Auto**.
2. Click **Add application**.
3. Type the name of the desired application in the search field.
4. Select desired applications and click **OK**.



5. Select desired color preset when using the application.



NOTE: **Preset Mode** assignments for batch files, scripts, shortcuts, and non-executable files such as zip archives or packed files, are not supported.

Organizing windows with Easy Arrange

The **Easy Arrange** menu simplifies the way applications windows are displayed on your monitor. This feature requires permission to be provided explicitly to DDPM to arrange the application.

NOTE: When using **Easy Arrange** for the first time, the application will request access to **Accessibility** privileges on your Mac. Click **Open System Preferences** and follow the on-screen instructions to enable **Accessibility**.

Layout

To organize the windows:

1. Select any of the predefined layouts to virtually divide the screen into multiple zones.
2. Drag the application to your selected zone to position the application in the zone. The application snaps to the selected zone.

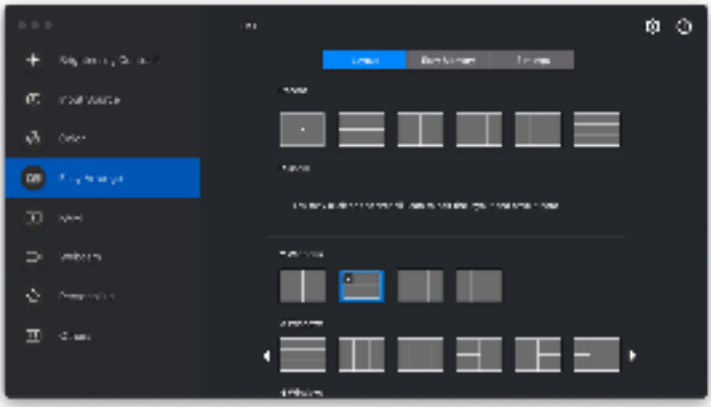
Landscape mode of the **Easy Arrange** layouts

Portrait mode of the **Easy Arrange** layouts are displayed when you rotate the monitor

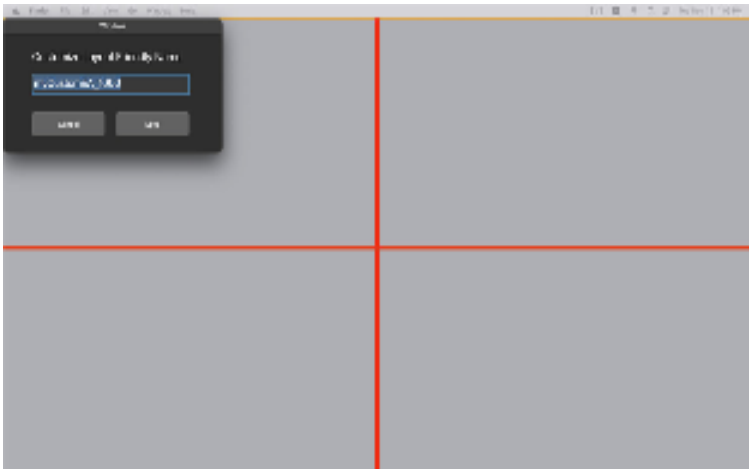
Customize layout

To customize an existing layout:

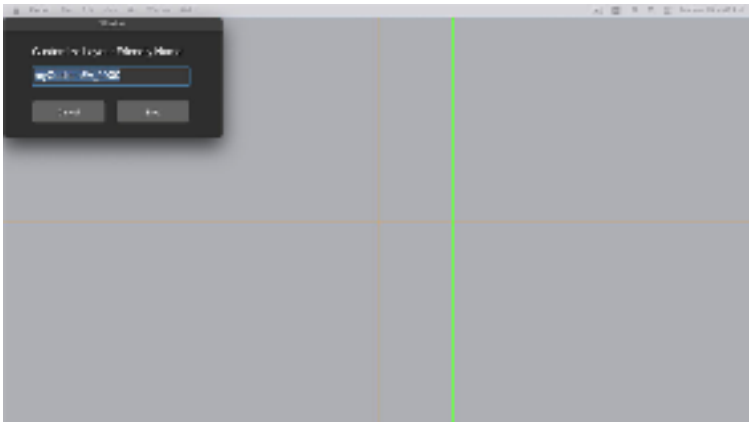
1. Hover the mouse pointer over the layout to be customized, and click the pen icon.



2. The layout with RED grid lines appear on screen, Press on the RED grid line to adjust the partition size.



3. The RED grid line changes to GREEN line as you drag the line to adjust the partition size. Release the line when done.



4. Click **Save** on the dialog box shown on top left corner to save the custom layout.

Easy Memory

Easy Memory allows you to save application or files in their respective partition into different profiles and restore them manually, by scheduled time or at system start-up.

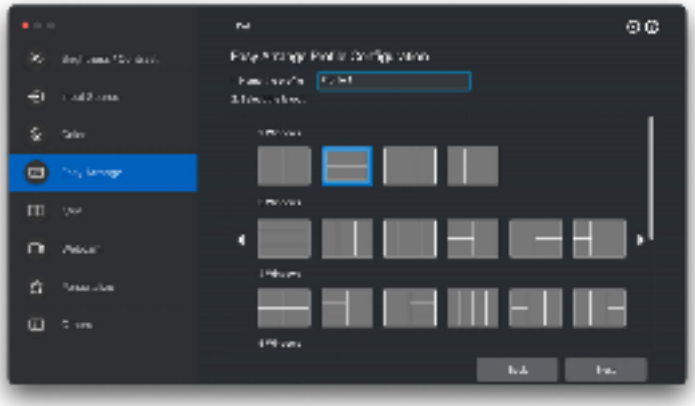
The process of restoring other apps is called automation. Automation process requires permission to be provided explicitly to DDPM to launch the app.

NOTE: **For each app added to the Easy Memory for the first time, you will have to explicitly provide automation permission to DDPM. The system will display the permission dialog and you must click OK in this dialog. Clicking Don't Allow will cause DDPM to be prohibited from launching the app on its own.**

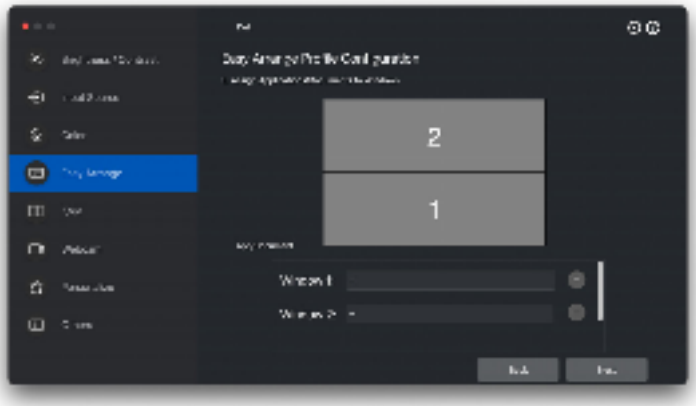
To create and launch a profile:

1. Click **+** to create a new profile.

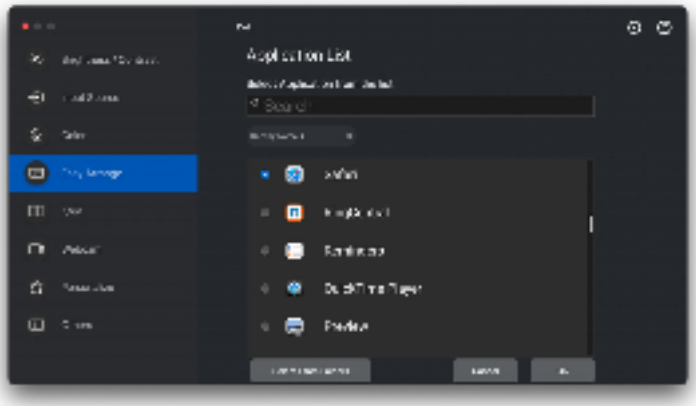
2. Each layout has a default profile name. You may change the name. Select the layout. Click **Next**.



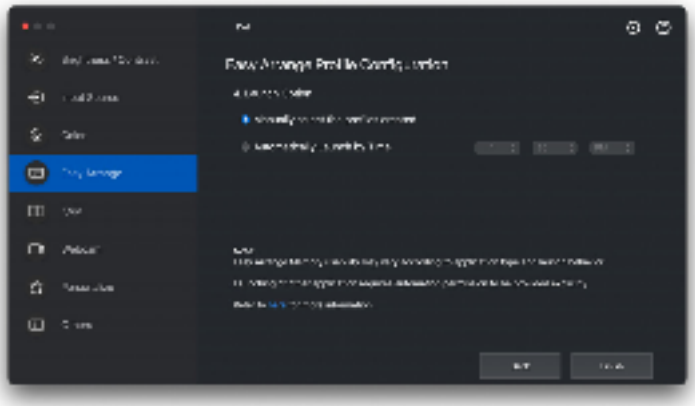
3. Assign an application or a file to each window. You can drag an application or a file into the window directly. Alternatively, click on the **+** to bring up the Applications List.



4. Search for the application or browse the list to select the application. Click on the **Select From Folders** to select your file. Click **Next** to add it to the selected window.



5. Select one of the launch options provided. Click **Finish**.



6. The profile created will be shown on the **Easy Memory** menu.

7. To apply a profile, select the profile to view the summary of the configuration, then click **Apply** to activate the profile.

Easy Arrange Memory usability may vary according to application type and launch behavior. **Easy Memory** works with general productivity apps such as Microsoft Office, Adobe, Web browsers and more.

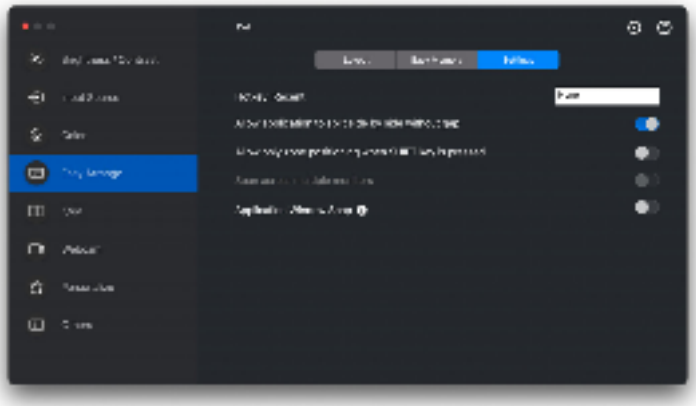
Easy Memory might not be able to perform a window partition at launch if any of the following takes place:

- App displays a pop-up dialog box upon launch (i.e., login screen, error dialog, or unsaved files)
- App is launched in full screen mode
- Files are opened as individual tabs within the app
- Overlapping **Easy Arrange** layouts

NOTE: **Associate the file to open with a supported application for a better experience.**

Settings

Configure the personal preferences.



Feature	Function	Description
Easy Arrange	**Hotkey: Recent**	Assign a hotkey to access recently used layout quickly.
	Allow application to split side by side without gap	Enable this function to allow applications to snap side-by-side without gap.
	Allow only zone positioning when SHIFT key is pressed	Enables the **Easy Arrange** menu by pressing the Shift key
	Span across multiple monitors	If you are using multiple monitors in an array or matrix, the **Easy Arrange** layout can be applied across all the monitors as one desktop. You need to align your monitors properly to make it effective.

Feature	Function	Description
Easy Arrange	**Application Window Snap**	Enables the placement of an application on a screen. For more information, see **Using the Application Window Snap**.

NOTE: If an application window cannot fit in the zone defined by **Easy Arrange**, the application may not be displayed properly.

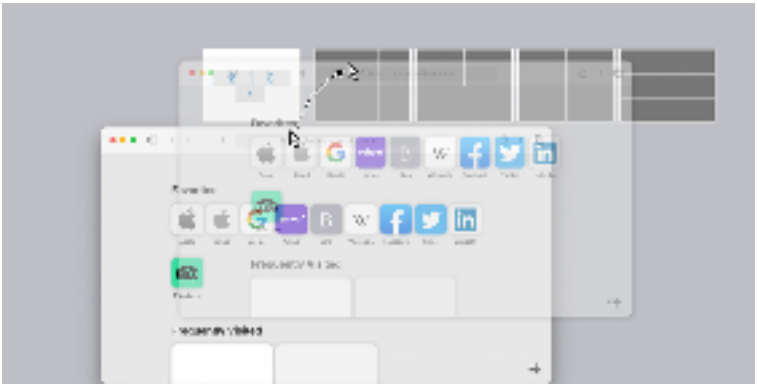
NOTE: The Span across multiple monitors can be enabled only for all connected monitors that have the same physical size, resolution, scaling settings, and are placed side-by-side.

Using the Application Window Snap

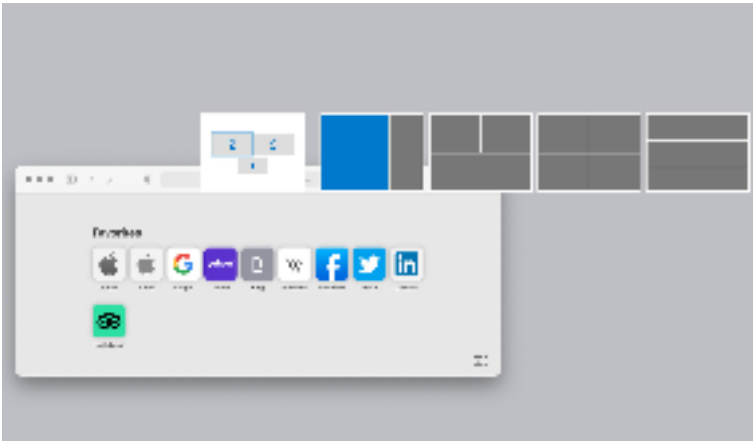
The **Application Window Snap** is designed to enable application placement on any screen quickly. When this function is enabled in Dell Display and Peripheral Manager, dragging the application triggers a floating menu that contains recently-used **Easy Arrange** layouts. Drop the application to any one of the listed layouts to perform window placement.

When this function is turned on, it replaces the **Easy Arrange** option such that the user can snap their application conveniently to the respective monitor and zone in the four most recently used **Easy Arrange** layouts.

- Drag the application window and drop it into one of the zones on the floating menu.

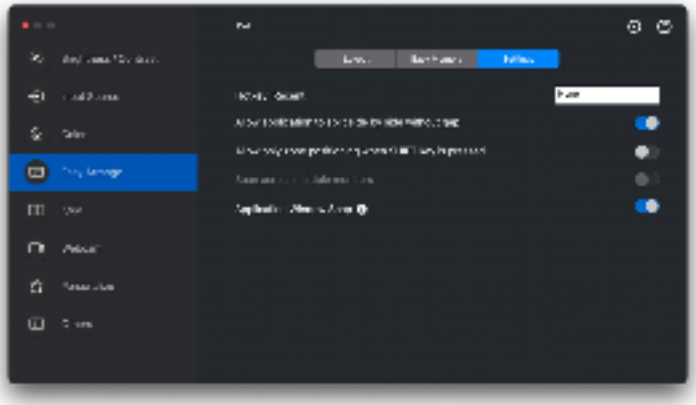


- The application will be snapped into the selected zone.



You can enable this feature by one of the following methods:

- Launch Dell Display and Peripheral Manager, go to **Easy Arrange** menu, and enable the **Application Window Snap** function.



- Right-click on the DDPM icon on the status bar, and select **Application Window Snap** to enable the function.

Setting up the USB KVM

For monitors that supports KVM feature, any client can share its connected keyboard and mouse with another connected client upon setup.

To setup, select **USB KVM**, click **Next**, and follow the on-screen instruction flow to set up the devices connecting to the monitor.

The on-screen setup flow is illustrated in the following screen-shots.

1. Select the number of sources your monitor is connected to.

2. Pair the input sources with USB connections and assign preferred names.

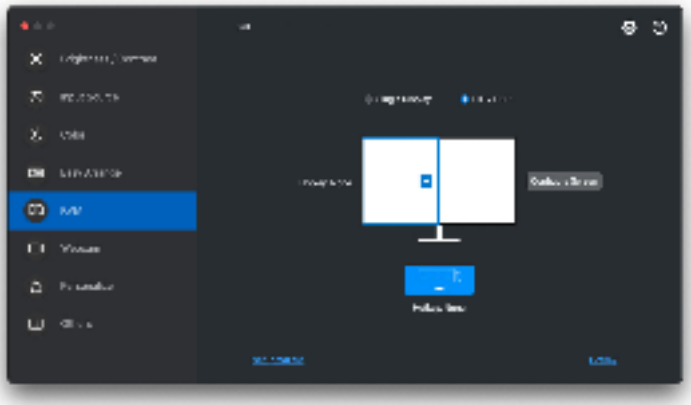
3. Select a preferred screen partition.

4. Click **Next** to save and exit USB KVM setup.

NOTE: Dell Display and Peripheral Manager communicates with your monitor even when the monitor is displaying video from another computer. You can install Dell Display and Peripheral Manager on the computer you frequently use and control input switching from it. You may also install Dell Display and Peripheral Manager on other computers connected to the monitor.

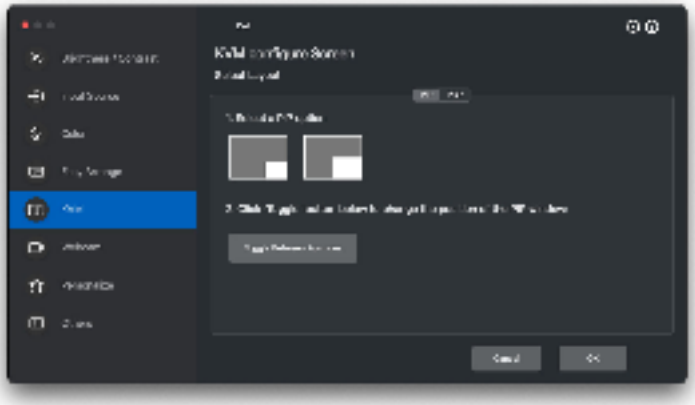
Changing KVM configuration

You can change the **KVM** configuration after completing the KVM setup either by running the setup instructions again or changing the screen configuration by clicking **Configure Screen**.

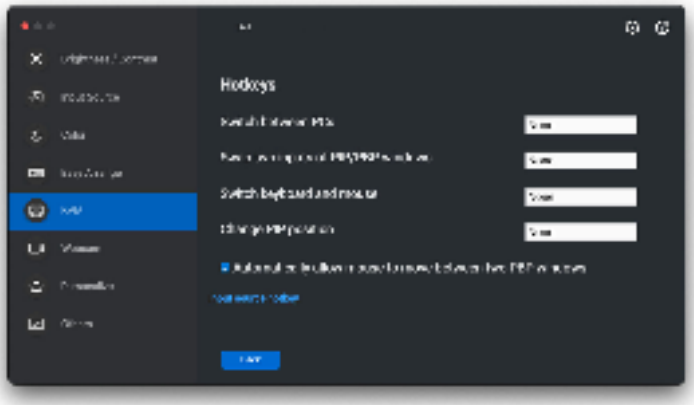


Feature	Function	Description
Single Display	Change video input	Change current video input by clicking the desktop computer icon or press **hotkey**.
PIP/PBP	**Video Swap**	Swap video input of main/sub by clicking arrow or press **hotkey** (only available in PIP or PBP side by side layout).
	USB Switch	Click button or press **hotkey** to toggle USB upstream port of active input sources.

1. Click **KVM Configure Screen** to change the screen layout.



2. Click **Hotkeys** to configure KVM hotkeys.



NOTE: Only relevant hotkeys in accordance with your screen configuration will be displayed.

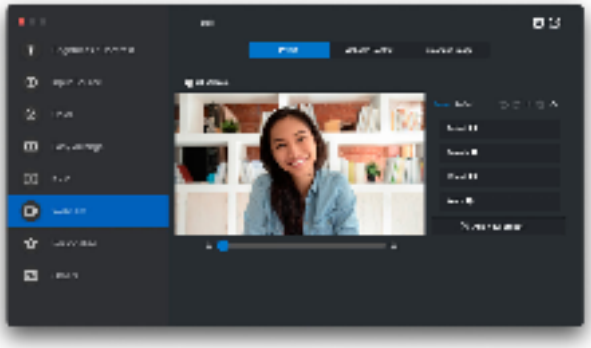
Feature	Function	Description
Hotkeys	**Switch between PCs**	Configure your preferred hotkey to switch between the computers in single display mode.
	Switch keyboard and mouse	Configure your preferred hotkey to switch keyboard and mouse between computers in PBP or PIP mode.
	Change PIP position	Configure your preferred hotkey to change the PIP position.
	Automatically allow mouse to move between two PBP windows	Check to enable the keyboard and mouse switching from one PC to another PC by sliding across the edge when PBP mode is turned on
	Input source hotkey	Click **Input source hotkey** for more hotkey configuration.

Using the Webcam

Configuring Webcam

Feature	Function	Description
Camera selection and preview	**Camera selection**	• Select the connected cameras.
	Preview window	• View camera images in real time.
	Zoom	• Zoom in and zoom out camera preview.
Webcam Control	**Camera Preset**	• You can select a preset that suits your style depending on how you want the image to appear on the camera from the options provided. You can also create a custom preset.
	AI Auto Framing	• Always stay focused. The **AI Auto Framing** keeps you at the center of the picture no matter where you move. **NOTE: AI Auto Framing** is available on the following models: • Webcam: WB7022 and WB5023 • Monitor: U3224QZ, P-series monitors
	Field of View	• You can set the viewing angle by adjusting your field of view to 65º, 78º or 90º if available.
Microphone	**Camera Microphone**	• You can switch on or off the built-in microphone for clear communication optimized for personal workspace. **NOTE:** Camera Microphone is available on the following models: • Webcam: WB5023 and WB3023

NOTE: When using **Camera** for the first time, the application will request access to **Camera** privileges on your Mac. Click **Open System Preferences** and follow the on-screen instructions to enable **Camera**.



Webcam Control

You can adjust **AI Auto Framing** (if available), **Field of View**, Zoom, **Autofocus**, **Priority**, and Camera switch from the **Webcam Control** section of the user interface.

Color and Image

It is possible to adjust the automatic correction for optimal image quality at various lighting conditions using **HDR** (High Dynamic Range). Other settings like **Auto White Balance**, **Brightness**, **Sharpness**, **Contrast**, **Saturation**, and **Anti Flicker** for the Dell Webcam makes it easier to get an image of your choice. The user interface is simple and intuitive to achieve this.

NOTE: **AI Auto Framing** (if available) and **HDR** features are available on all supported Dell Displays and Dell Webcams connecting to the Mac using any type of USB cable, except for the following model that must be connected to the Mac using the USB 3.0 cable:

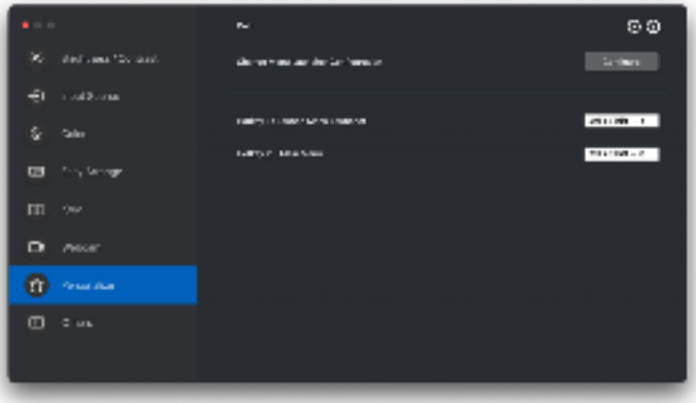
- Webcam: WB7022

When using Camera for the first time, the application will request access to **Camera** privileges on your Mac. Click **Open System Preferences** and follow the on-screen instructions to enable **Camera**.

Personalize settings

Changing Menu Launcher configuration

1. Click **Configure** to change the quick access function on **Menu Launcher**.

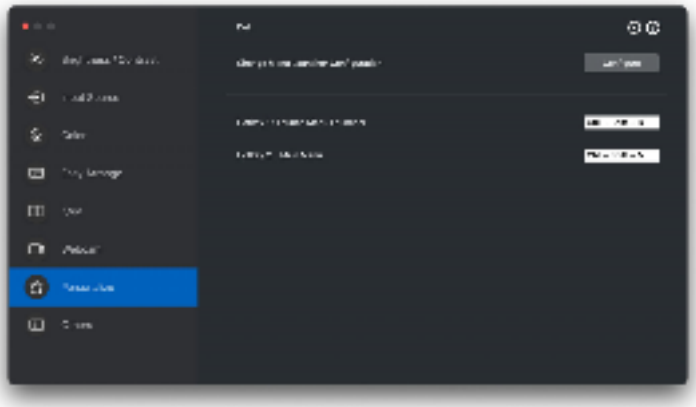


2. Select function from the drop-down list. Click **Add Function** to add more functions to the **Menu Launcher**.

3. Click **Reset All** to reset the functions of **Menu Launcher**.

NOTE: The available functions may differ depending on the configuration of your monitor.

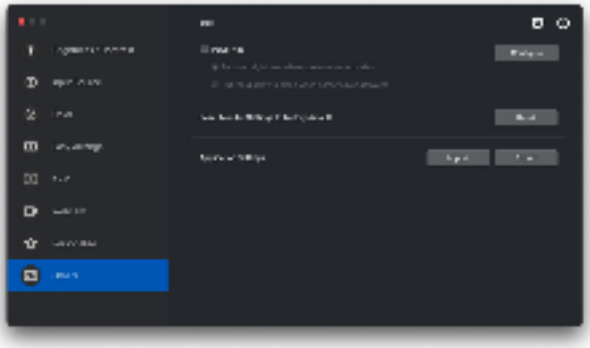
Changing Launch DDPM Hotkey configuration



Feature	Function	Description
Personalize	**Launch Menu Launcher**	Press Ctrl+Shift+D to bring up the **Menu Launcher** of the monitor where the mouse pointer is currently located.
	Main Menu	Press Ctrl+Shift+M to bring up the **Main Menu** of the monitor where the mouse pointer is currently located.

Applying energy conservation features

On supported Dell models, PowerNap energy conservation options are available in **Others** menu. You can choose to set the brightness of the monitor to the minimum level, or to put the monitor to sleep when the screen saver is activated.

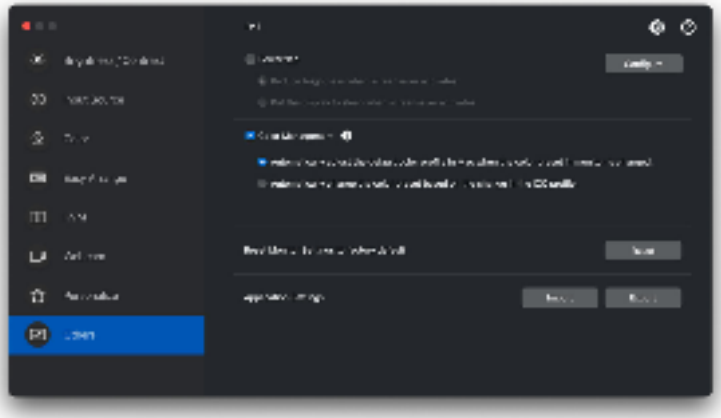


NOTE: **PowerNap** option is disabled in PBP or PIP to prevent disruption of the normal activities.

Color Management

This feature provides the optimum color experience by matching the color space of the monitor with the International Color Consortium (ICC) profile.

On the supported Dell models, **Color Management** options are available under **Others** menu. You can choose **Automatically adjust the default color profile in Mac when the color preset in monitor is changed** or **Automatically change the color preset based on the change in the ICC profile**.



Automatically adjust the default color profile in Mac when the color preset in monitor is changed

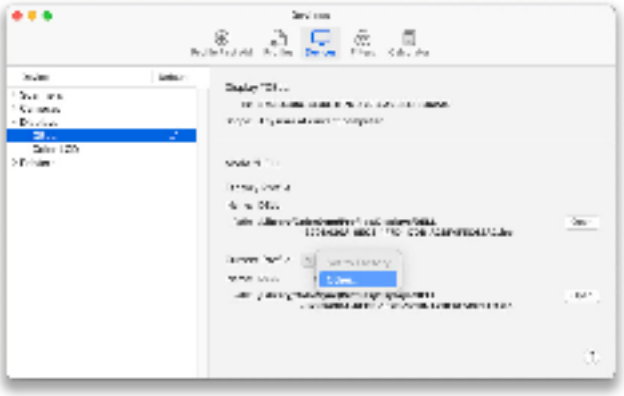
The corresponding color profile will set to default in Mac when you change the color preset from the monitor OSD menu.

Automatically change the color preset based on the change in the ICC profile

The corresponding color preset will be set in the monitor when you change the ICC profile in Mac. You can click on the ICC profile link to add the color profile installed for the monitor.

Changing the ICC profile in Mac

1. Open the **ColorSync Utility** app in Mac. Find the current display, click on **Current Profiles** drop-down list, and select **Other...**.

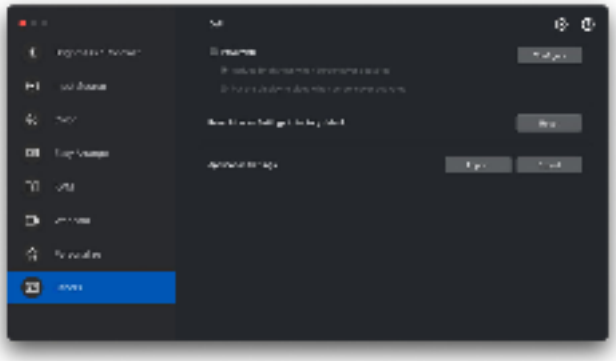


2. Select the profile (.icm file) you wish to apply.

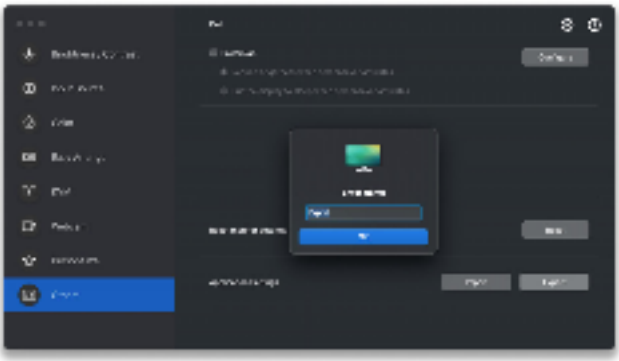
3. DDPM will apply the corresponding color preset to your monitor OSD.

Import/Export application settings

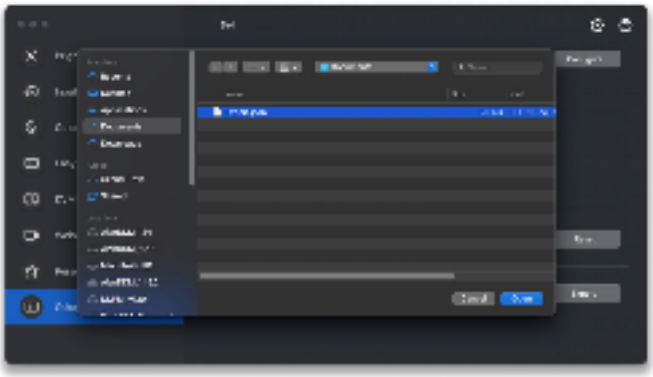
You can use this function to export the monitor settings from one monitor and import into another monitor of the same model.

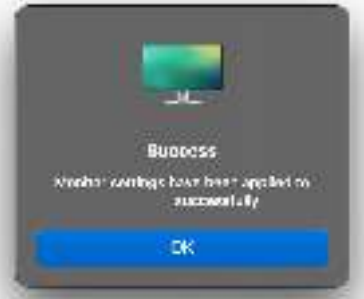


1. Click **Export** to store a copy of the application and monitor settings of selected monitor to a file and click **OK** when export is successful.



2. To import the settings from a previously exported file, click **Import** and select the file. The monitor settings will be applied to all of the connected displays of the same model.




Success
OK

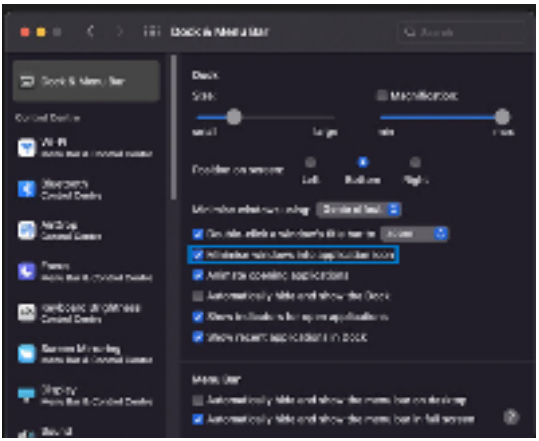
Restoring application positions

Dell Display and Peripheral Manager can help you restore application windows into their positions when you reconnect your PC to the monitor(s). Access this feature by right-clicking on Dell Display and Peripheral Manager icon in the notification tray.

To go back to a favorite layout, first select **Save current window layout** and then **Restore saved window layout**.

If you choose **Auto-restore window layout**, your application windows positions are tracked and remembered by Dell Display and Peripheral Manager. Dell Display and Peripheral Manager automatically places the application windows into their original positions when you reconnect your PC to your monitor(s).

NOTE: If **Auto-restore window layout** is disabled, go to **System Preferences - Dock & Menu Bar**, enable **Minimize windows into application icon**.



You may use monitors with different models or resolutions in your daily routine, and you may apply different window layouts on them. Dell Display and Peripheral Manager registers the monitor you have reconnected and restore application positions accordingly.

In case you need to replace a monitor in a monitor matrix configuration, you can save the window layout before replacement and restore the layout after a new monitor is connected.

NOTE: You should keep your applications running in order to benefit from this feature. Dell Display and Peripheral Manager does not launch applications. Use **Easy Memory** for frequently used tasks.

Additional Settings

There are additional settings available under **Settings**. Click **Settings** icon to make changes.

Feature	Function	Description
General	**Change application language**	Change your preferred language from the list.
	Auto-Load at startup	Launch DDPM when the computer starts up.
	Enable on screen notification	Allow DDPM to show notification message.

Updating DDPM software, monitor and webcam firmware

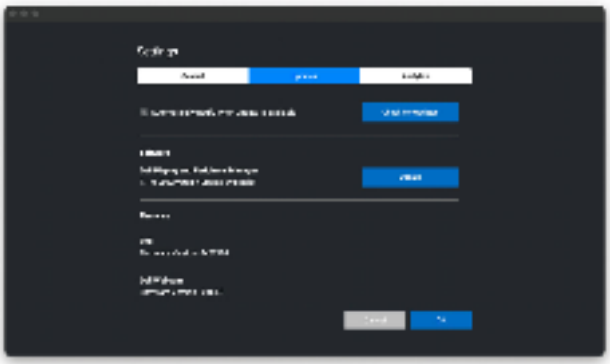
If your computer is connected to the Internet, you will be prompted to upgrade to a newer version of DDPM software, monitor firmware or webcam firmware when the updated version is available. It is recommended to download and install the latest DDPM application, and monitor or webcam firmware.

Updating DDPM software

You can check for new DDPM version by right clicking on Dell Display and Peripheral Manager icon.

Click **Update** in **Settings** to update the DDPM software or device firmware.

You can also check for new version by clicking on **Check for Updates** in **Settings**.



Updating the monitor firmware

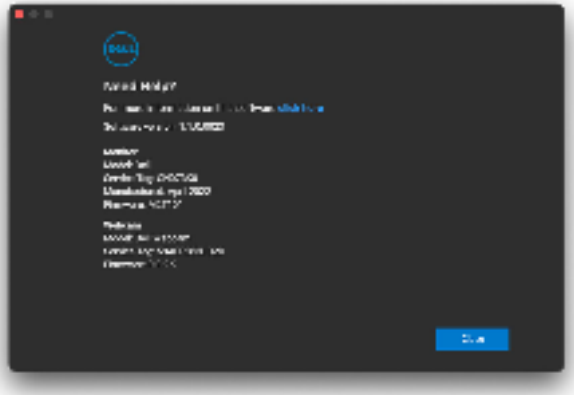
1. Click **Update** to download the pkg file. After download is complete, a dialog box appears to prompt for confirmation. Follow on-screen instruction to disconnect all other monitors before clicking **Yes**.

2. The **DDPM** will close, and **Monitor Firmware Updater Utility** will appear after you confirm to update firmware. Click **Update** to start firmware update.

3. After the update is complete, click **Close** to exit **Monitor Firmware Updater Utility** and reboot the monitor.

Updating the webcam firmware

Webcam firmware version can be found in **Help** dialog. Webcam firmware can be upgraded in **Settings** dialog. You can click **Update** to download and update Dell Webcam firmware immediately.

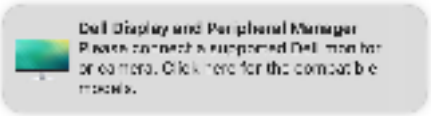


Improve DDPM

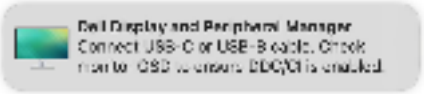
Check the **Help Dell improve its products and services automatically** if you consent to provide diagnostic and usage data to Dell server automatically. This data will help to improve Dell products and services.

Troubleshooting

If Dell Display and Peripheral Manager does not work with your monitor or webcam, it will display the following icon and message in the status menu.



Click on the icon, Dell Display and Peripheral Manager shows a more detailed error message.



Please note that Dell Display and Peripheral Manager only works with selected Dell-branded monitors or webcams. If you are using monitors or webcams from other manufacturers, Dell Display and Peripheral Manager does not support them.

Dell monitors and webcams not supported by Dell Display and Peripheral Manager

Dell Display and Peripheral Manager may not work with the following monitors or webcams:

- Dell monitor or webcam models not included in Dell Display and Peripheral Manager for Mac supported list. For more information, see https://www.dell.com/support/ddpm
- Monitors, webcams and accessories not listed in Dell Display and Peripheral Manager for Mac support list. Virtual and wireless monitors do not support DDC/CI
- Mac models earlier than year 2018
- macOS earlier than 11

Unable to detect supported Dell monitor or webcam

If Dell Display and Peripheral Manager is unable to detect and/or communicate with a supported Dell monitor or webcam, please take following actions to troubleshoot:

1. DDPM will not work if the external monitor is set to **Use as Mirror for Built-in Retina Display**. Change the Display settings to set external monitor to Use as either **Main Display** or **Extended display**.
   Display Settings is available at Apple menu > System Preferences >Displays.
2. If connecting HDMI cable not working, switch to use HDMI and USB upstream cable. Launch DDPM again.
3. Check the monitor OSD to ensure **DDC/CI** is enabled.
4. Remove any docking stations or cable extenders or converters between the monitor and the graphics port. Some low-cost extenders, hubs or converters may not support DDC/CI properly and can fail Dell Display and Peripheral Manager. Update the driver of such device if the latest version is available.
5. Check if the webcam is detected under USB section in System Information
6. Wait for a few seconds after unplugging the webcam before re-connecting it to the computer.
7. Restart your system.