

Dell Display Manager for Windows

Version 2.3

User's Guide





CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.



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

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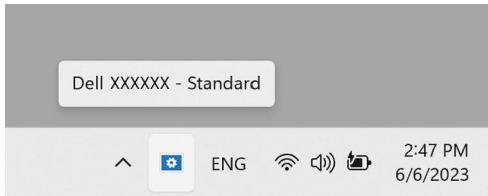


Overview

Dell Display Manager (DDM) is a Windows application used to manage a monitor or a group of monitors.

DDM allows you to configure the monitor settings, control power settings, organize applications in different screen layouts, and other functions on supported Dell monitors.


After installing DDM, it runs each time you restart your computer. A quick access icon is available in the system taskbar, with information about connected monitors available when you hover your cursor over the DDM icon.




System requirements

DDM supports the following x86-based Windows:

- Windows 10 build 17763 and above
- Windows 11

 **NOTE: Certain functions are hardware dependent. See your monitor user guide for information about the functions that are available.**

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



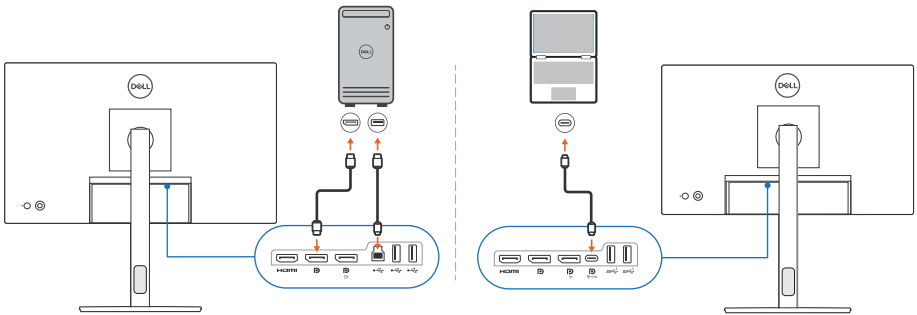
Downloading and setting up the DDM

Downloading the DDM

1. Browse for your monitor model name, or type it in at <https://www.dell.com/support>.
2. Download the DDM for Windows from the list of downloads, and install it on your computer.
You can also visit <https://www.dell.com/support/ddm> and download the software from the site. The Dell support website detects the OS of the computer, and the Dell Display Manager download link will appear if you are browsing from a Windows OS computer. Alternatively, Windows OS can be selected from the Operating System drop-down list.

Connecting the monitor to your computer

1. Connect the monitor to your computer by following the steps that are specified in the monitor user guide.

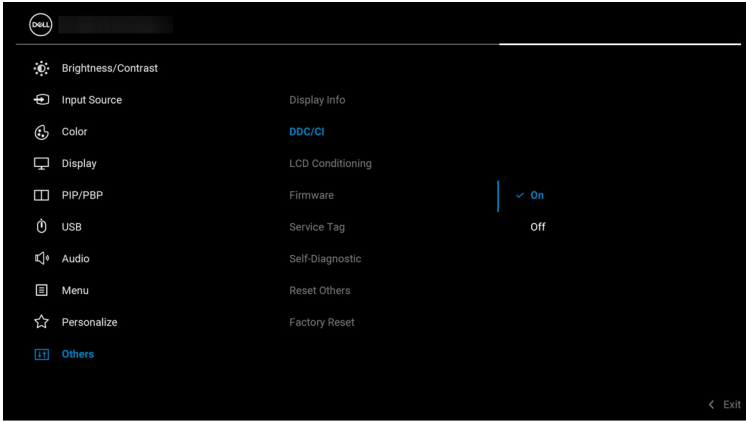


NOTE: The connectivity diagrams are for illustrative purposes only. See your monitor user guide for the complete information.



Before launching the DDM

Before launching the DDM, select **Others** on the monitor's On-screen Display (OSD), and ensure that the **DDC/CI** function is set as **On**.



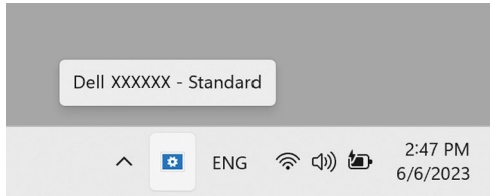
 **NOTE:** Only **Easy Arrange** is enabled if the **DDC/CI** function is set as **Off**.



Launching DDM

Menu Launcher

Click the DDM icon on the system taskbar to open the **Menu Launcher** box. When multiple Dell monitors are connected to the computer, you can select any monitor from the drop-down list to control the settings of the monitor. Alternatively, you can open the menu launcher from the program menu.



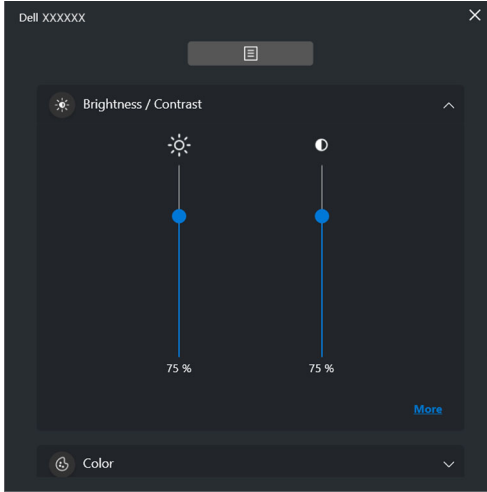
The **Menu Launcher** box provides quick access to the following commonly used functions:


- ◆ **Brightness/Contrast**
- ◆ **Color**
- ◆ **Display**
- ◆ **Easy Arrange**
- ◆ **Audio**
- ◆ **KVM / Network KVM** (optional)
- ◆ **Gaming** (optional)

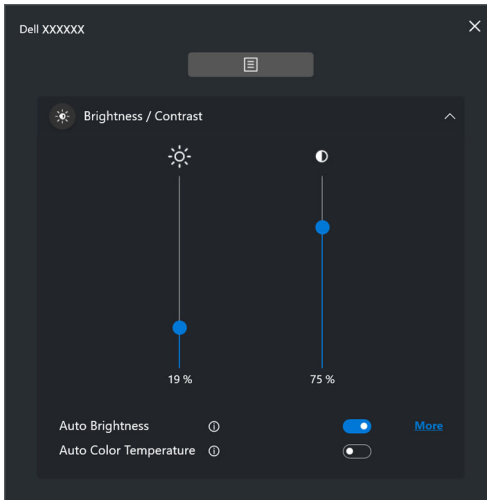



Brightness/Contrast

Allows you to 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.



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

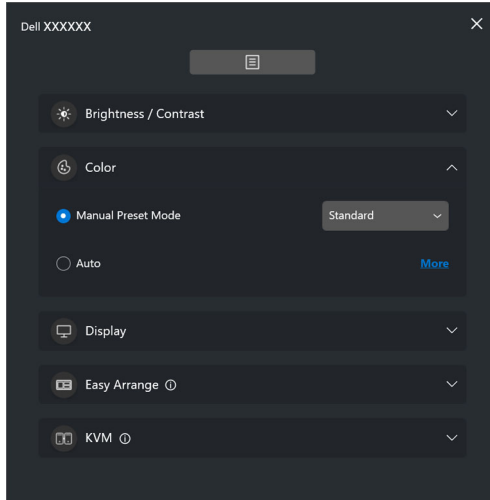


 **NOTE:** The Auto function is available on monitors equipped with an ambient light sensor.



Color

Change color preset to suit user preferences on the screen. For additional settings, click **More**.

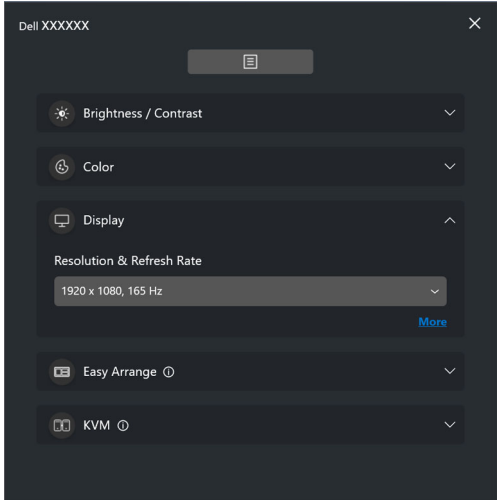


 **NOTE:** For more information, See [Auto change color preset when using specific application.](#)



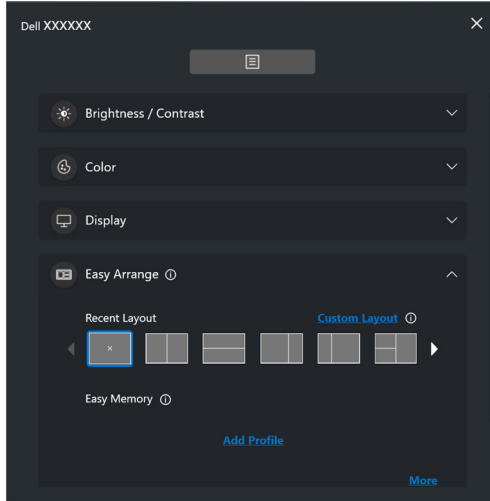
Display

Allows you to adjust resolution and refresh rate of the selected monitor. For additional settings, click **More**.



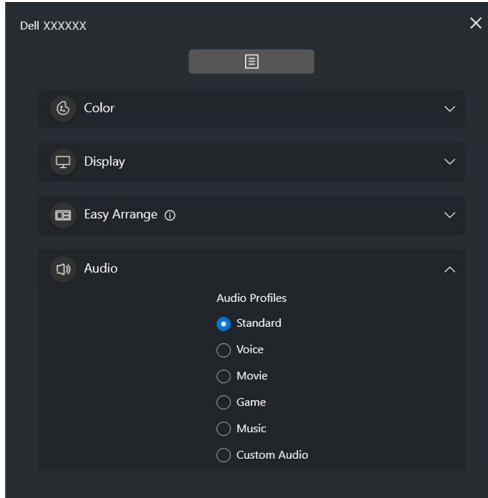
Easy Arrange

A list of the recommended or recently used layouts and easy memory profiles are displayed for quick selection, as shown in the following image. The **Custom Layout** function allows you to save the current window arrangement on screen as a custom layout.



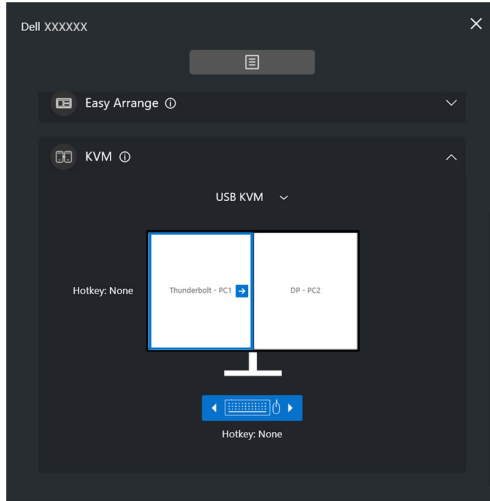
Audio

For monitors that support **Audio Profiles**, you can select the preferred profile from the **Audio** tab.



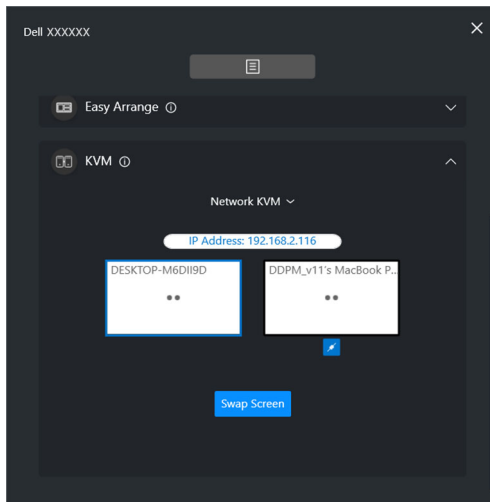
KVM

After setting up the KVM, you can switch keyboard and mouse between computers. See [Setting up the USB KVM](#) to use the **Setup wizard**.



Network KVM

From the **KVM** tab, select **Network KVM** from the drop-down menu. This menu provides quick access features based on the current Network KVM status. See [Setting up the Network KVM](#) section to use the **Setup wizard**.

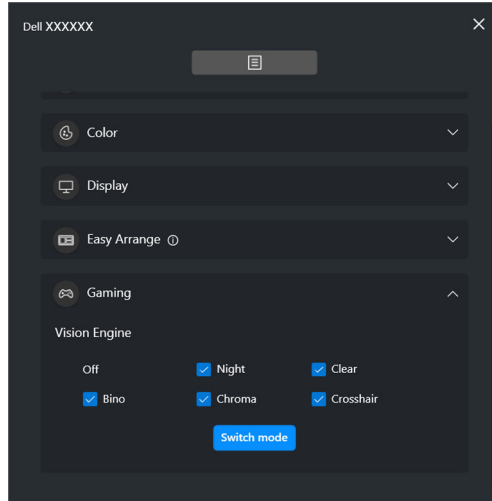


Feature	Function	Description
No Setup	Setup Now	Click Setup Now to bring up the Network KVM setup screen.
Single Display	Switch PC	When PBP is turned off, click Switch PC to switch the video input between computers.
	Swap Screen	When PBP is on, swap the video input by one of the following methods: <ul style="list-style-type: none"> • Move the cursor to the monitor block and click the arrow that appears. • Drag and drop one monitor block to another monitor block.
Multiple Displays	Swap Screen	<ul style="list-style-type: none"> • Move the cursor to the computer block and click the arrow that appears. • Drag the computer icon to arrange horizontal position.



Gaming

For the monitors that support vision engine, you can select and switch the Vision Engine modes from the **Gaming** function.



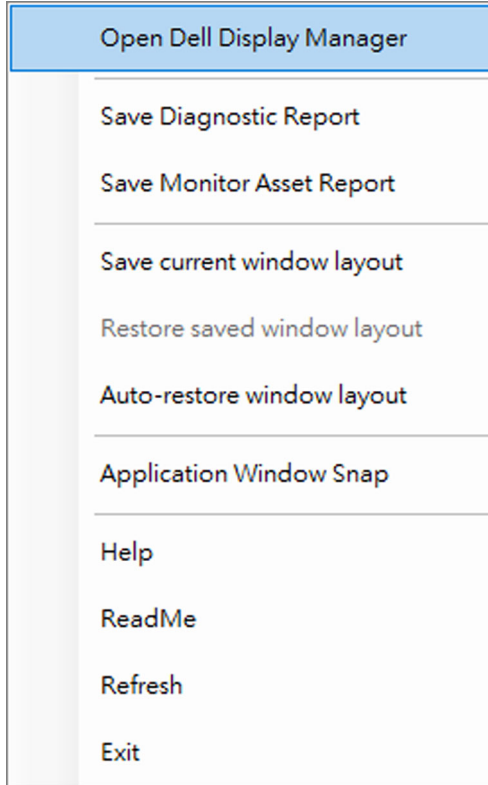
Feature	Function	Description
Quick access to DDM	Shortcut key to launch the Menu Launcher box	<ul style="list-style-type: none">• Configure your preferred hotkey (for example, Alt+M) to launch the Menu Launcher.• To customize your preferred hotkey, select Personalize.
	Select the monitor when multiple monitors are connected or drag the UI to the monitor you want to control	<ul style="list-style-type: none">• If you have more than one monitor connected, you can select the monitor from the drop-down list or simply drag the UI to the monitor you want to control.• When the monitor is selected, the monitor icon with the model name appears on the respective monitor screen to indicate the selected monitor.• Press Alt+M to bring up the Menu Launcher of the monitor where the mouse cursor is placed.• If you have more than one monitor connected, press the configured hotkey for a selected monitor where the mouse cursor is positioned.



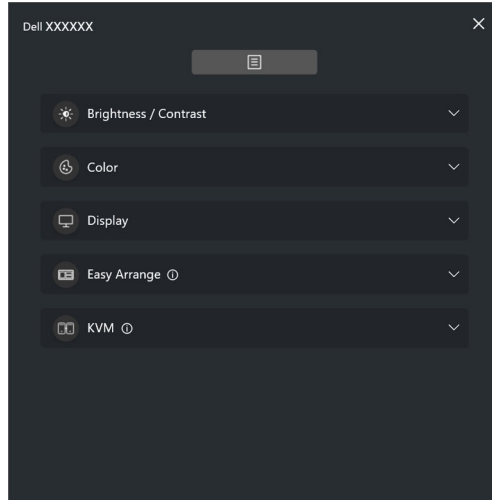
Main menu

Launch DDM by one of the following methods:

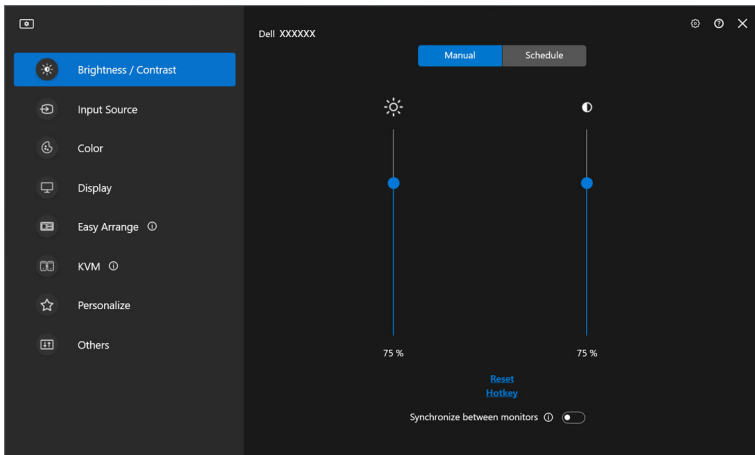
- On the system taskbar, right-click the **DDM** icon, and select **Open Dell Display Manager**.



- Click the menu icon on the **Menu Launcher** to launch the main menu.

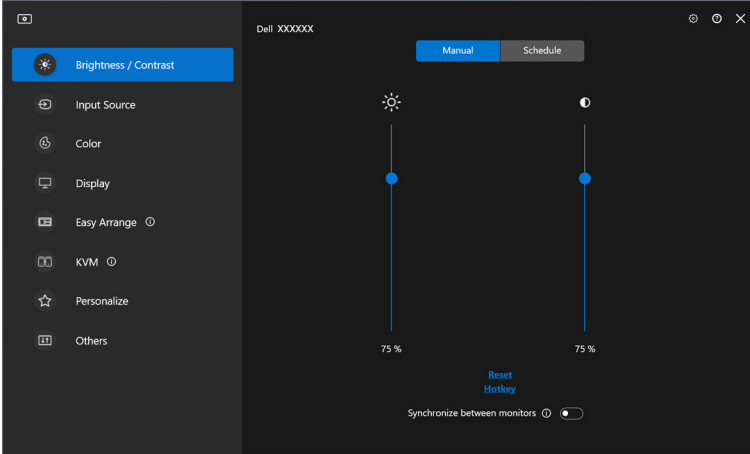


The menu system provides a set of menu and submenu to adjust the DDM functions.




Adjusting the brightness and contrast


On the DDM menu, select **Brightness/Contrast** to change the brightness and contrast levels.




Feature	Function	Description
Brightness/ Contrast	Manual	Adjust the brightness and contrast of the monitor manually.
	Schedule	Adjust the brightness and contrast gradually according to day/night profile that you have configured.
	Auto	<ul style="list-style-type: none">Automatically adjust the brightness or color temperature by monitor ambient light sensor when corresponding option is enabled.You can specify one primary monitor to sync brightness and/or color temperature to other monitors.
	Hotkey	Assign shortcut key to adjust brightness and contrast.
	Synchronize between monitors	Enable this function to apply the brightness, contrast, and color preset control to the connected monitors.



 **NOTE:** The synchronization of monitor control is available only when two or more monitors with the same brightness/contrast unit are connected.

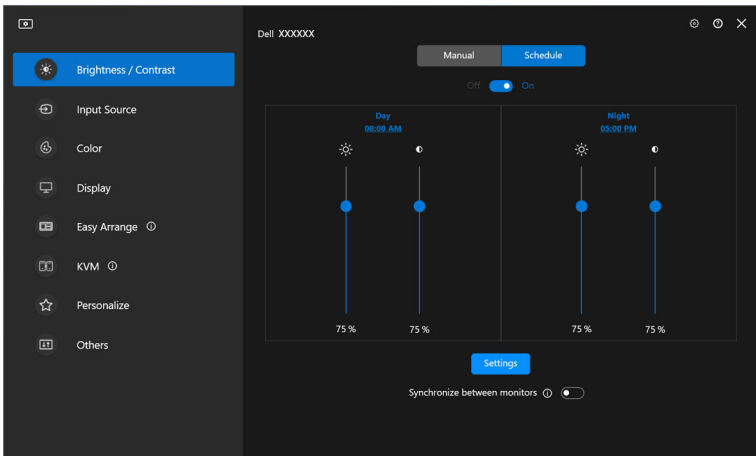
 **NOTE:** The minimum value of contrast setting is set to 25% to maintain the visibility on the screen.

 **NOTE:** Manual adjustment of **Brightness** and **Contrast**, **Auto Brightness**, and **Auto Color Temperature** functions are disabled when **Smart HDR** or **Dolby Vision** is activated and HDR content is displayed.

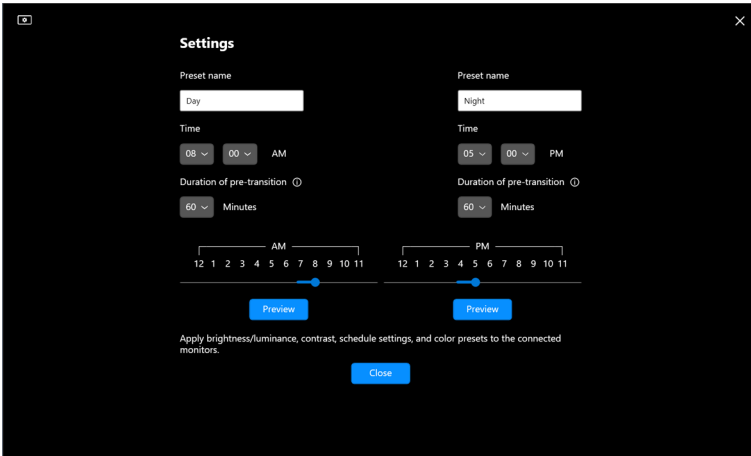
Setting the schedule for brightness and contrast


Select the **Schedule** tab to set the brightness and contrast schedule according to day/night profile that you have configured.

1. Select the **Schedule** tab in the **Brightness/Contrast** menu. Adjust the brightness and contrast level by moving the sliders up or down. The default profile values follows the monitor current settings. Click **Settings** button to configure the profile timing or preview the profile transition effect.

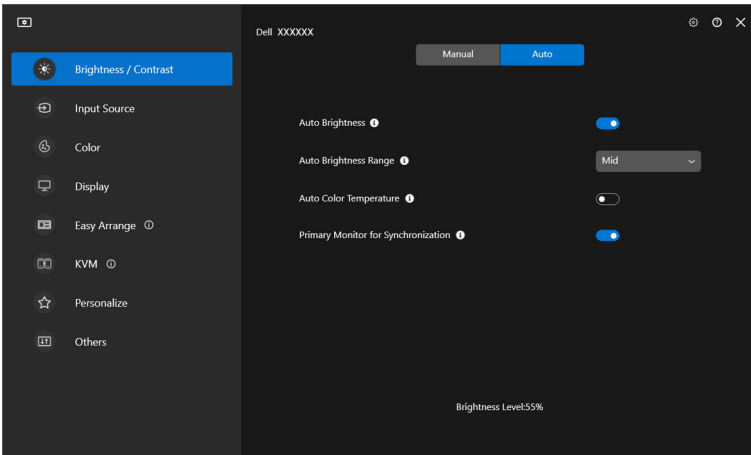


2. Adjust the starting time and duration for **Day** and **Night** time. Click **Close** to save and exit the menu.




 **NOTE:** The schedule function is available on monitors that are not equipped with an ambient light sensor.

Setting the Auto function for brightness and contrast



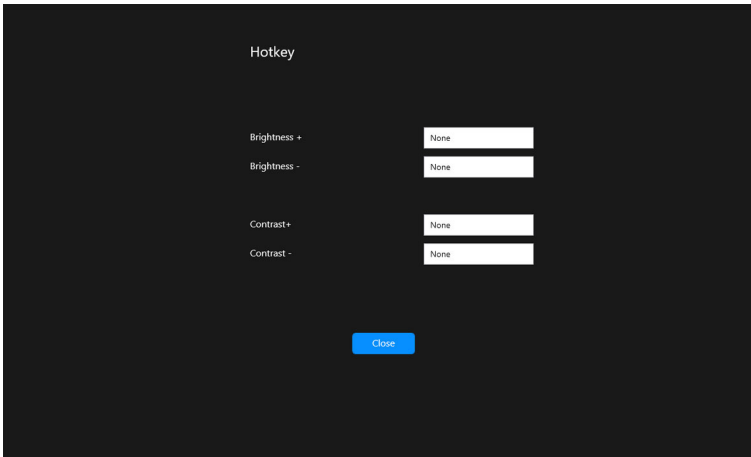
Feature	Function	Description
Auto	Auto Brightness	Turns on the Auto Brightness and the monitor Brightness setting automatically adjust according to the ambient light.
	Auto Brightness Range Level	When Auto Brightness is turned on, adjust the Auto Brightness Range Level of the Auto Brightness . NOTE: When Auto Brightness is turned off, this function is not available.
	Auto Color Temperature	Turns on Auto Color Temperature and the monitor RGB color settings automatically adjust according to the ambient light.
	Primary Monitor for Synchronization	Turns on Primary Monitor for Synchronization if you have multiple Dell monitors that support this function connected, and you want the other monitors to adjust their Brightness or RGB settings according to the ambient light condition detected by the primary monitor. NOTE: When Auto Brightness and Auto Color Temperature are both turned off, Primary Monitor for Synchronization is not available.

 **NOTE:** The Auto function is available on monitors equipped with an ambient light sensor.



Assigning shortcut keys

Click **Hotkey** in the **Brightness/Contrast** menu, assign shortcut key to adjust brightness and contrast.



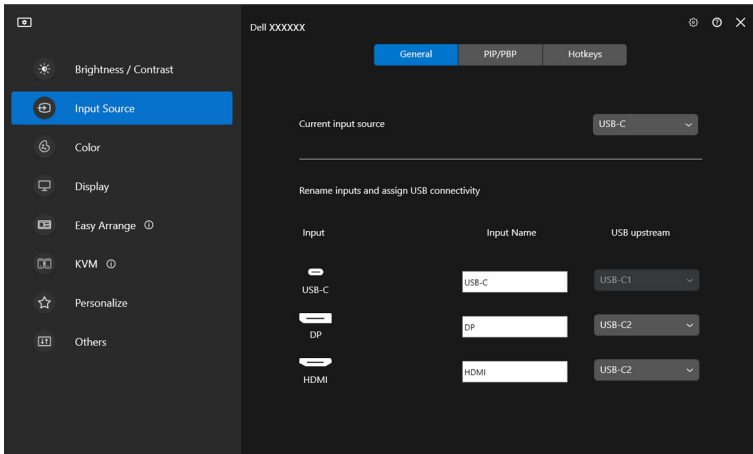
If multiple monitors are connected, the configured hotkeys will be synchronized across the monitors. To trigger the brightness/contrast or luminance adjustments, move the mouse over the desired monitor.




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.

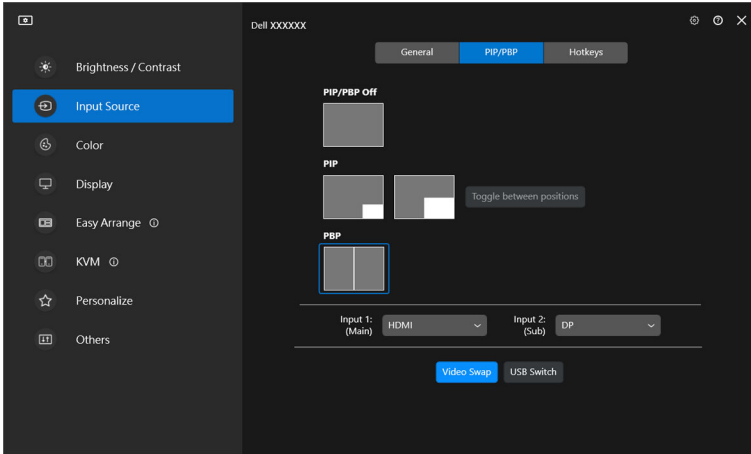


 **NOTE:** For more information, See your monitor user guide for the available inputs.

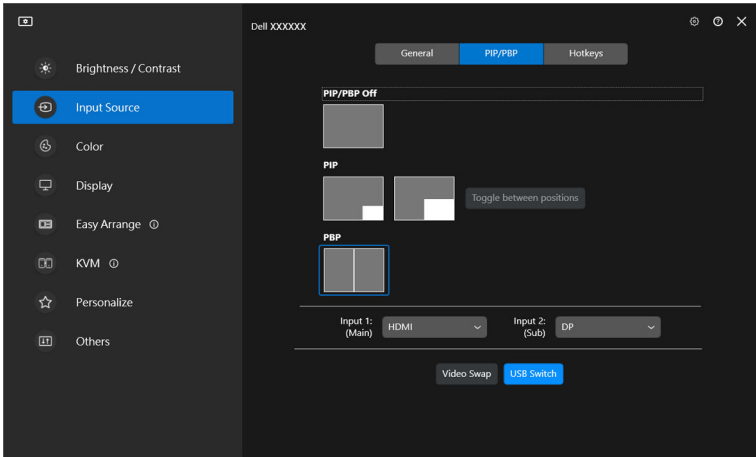



Configuring the PIP/PBP mode

1. Click **PIP/PBP** to enable the split screen function on the supported models.
2. Click **Toggle between positions** to change the PIP position.
3. From the **Input 1** drop-down list, select the main input, followed by selecting the sub-input from the **Input 2** drop-down list to change the main or sub inputs.
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.

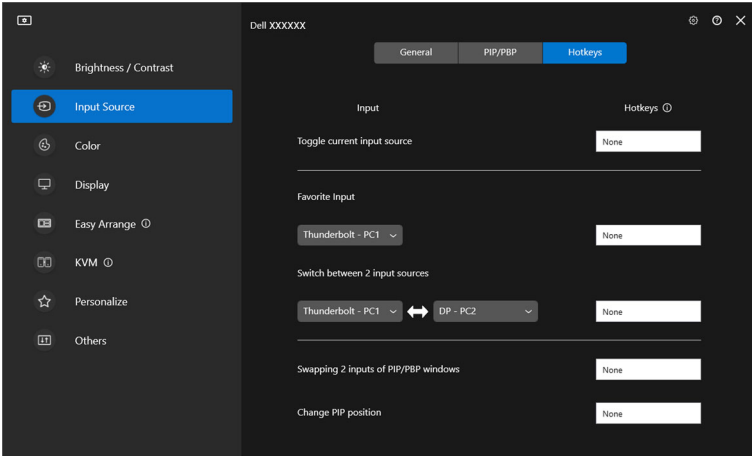


 **NOTE:** For more information, See your monitor user guide for the available PIP/PBP functions.

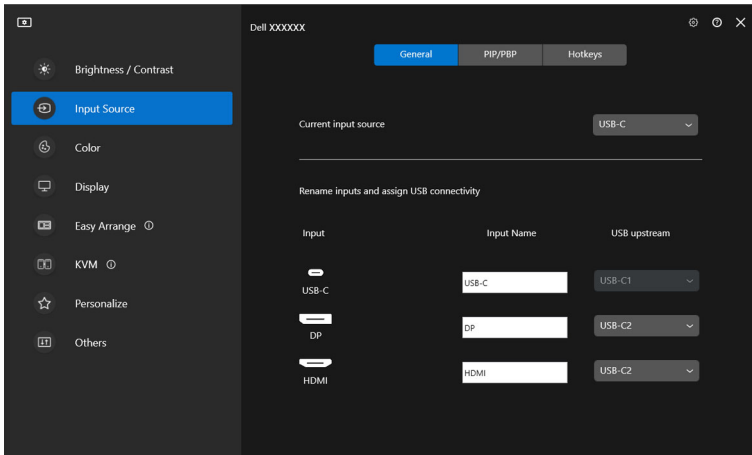


Assigning shortcut keys


You can assign shortcut keys for quick access to the **Input Source** functions.




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



Feature	Function	Description
Hotkeys	Toggle current input source	Configure your preferred hotkey (for example, Alt+C) to toggle the input sources.
	Favorite input	Configure your preferred hotkey to toggle to your favorite input source.
	Switch between 2 input sources	Configure your preferred hotkey (for example, Alt+I) to toggle between the two frequently used input sources.
	Swapping 2 inputs of PIP/PBP windows	Configure your preferred hotkey (for example, Alt+W) to swap the PIP/PBP main and sub-input.
	Zoom In/Out PBP 4 windows	Configure your preferred hotkey (for example, Alt+Z) to zoom in/out the PBP window.
	Change PIP position	Configure your preferred hotkey (for example, Alt+Q) to change the position of PIP.
	UnderScan	Configure your preferred hotkey (for example, Alt+A) to enable or disable underscan. NOTE: The underscan function is supported only on the following models: <ul style="list-style-type: none"> ◆ Dell U4320Q ◆ Dell U4323QE

 **NOTE:** For more information, see your monitor user guide for the available PIP/PBP functions.

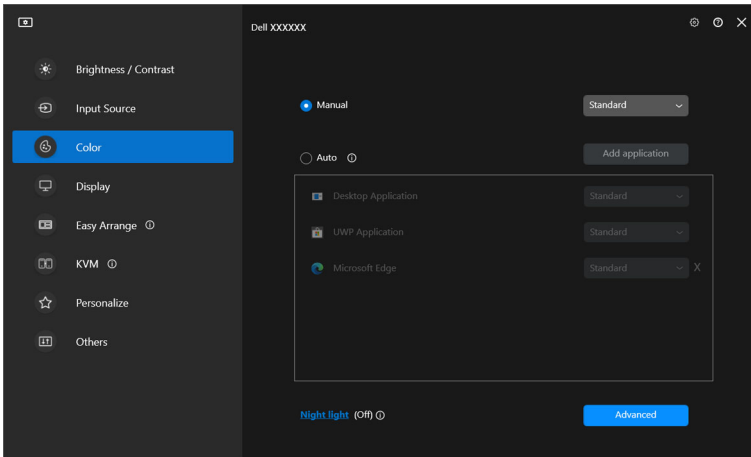
 **NOTE:** If there are multiple monitors connected, the configured hotkeys will be synchronized across the monitors for ease of use. To trigger the function for the selected monitor, move the mouse to the monitor and press the hotkey.



Setting the monitor color preset mode

The **Color** menu allows you to associate color preset mode with an application. When you select the **Auto Mode**, the DDM automatically switches to the corresponding color preset mode whenever the associated application is activated. The color 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, click **Add application** to select applications or drag it from the **Windows Programs/Desktop** and drop to the current list. Select the color preset mode from the drop-down list for each application to associate preset to the applications.

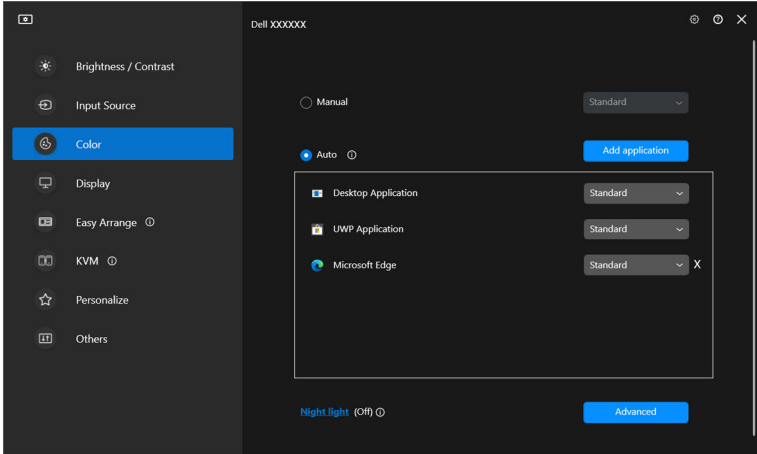


Feature	Function	Description
Color	Manual	Select the color preset mode manually from the user interface.
	Auto	<ul style="list-style-type: none">• Enable this function to activate the color preset mode automatically when the associated application is selected as the active window.• Click the drop-down list to assign a preset mode to an application.
	Night light	Change the night light setting.

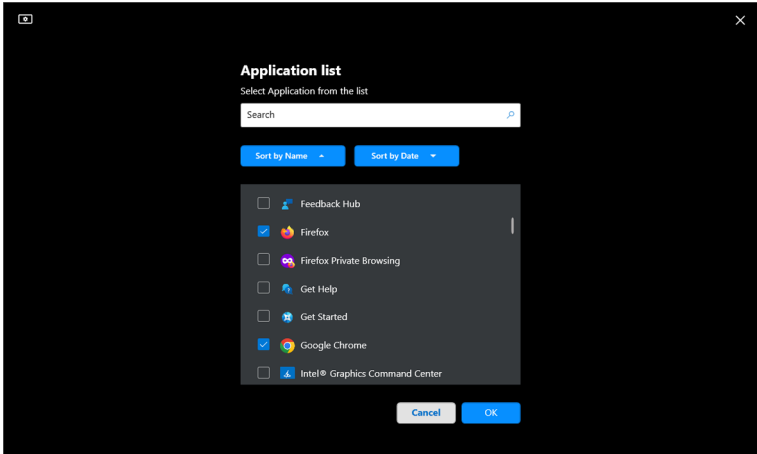


Auto change color preset when using specific application

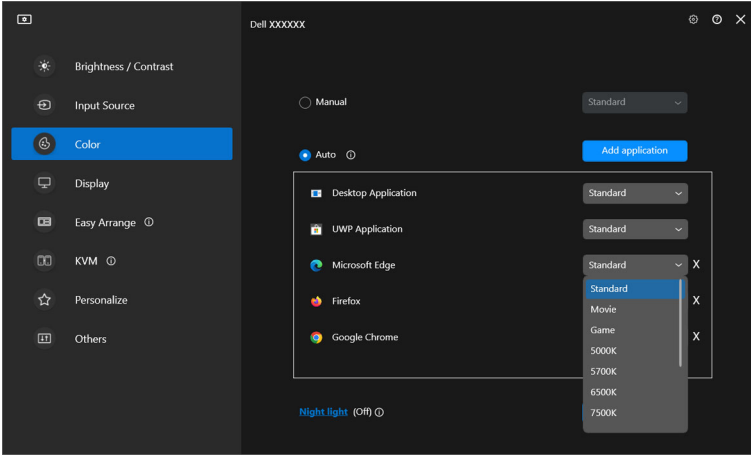
1. Select **Auto**.
2. Click **Add application**.



3. Select desired applications and click **OK**.



4. Select desired color preset when using the application.



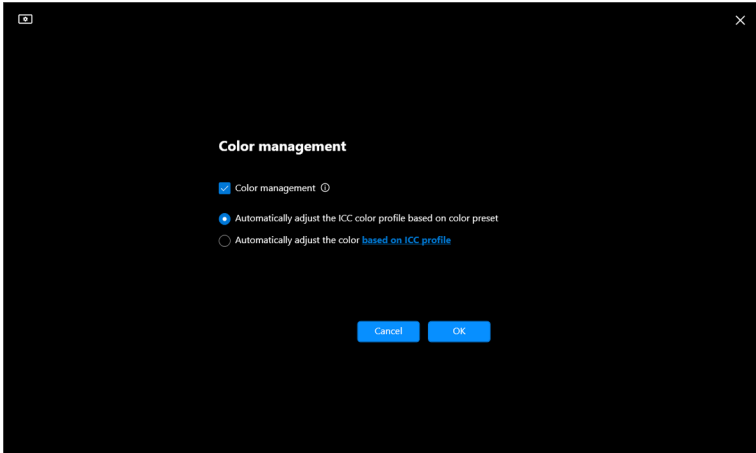
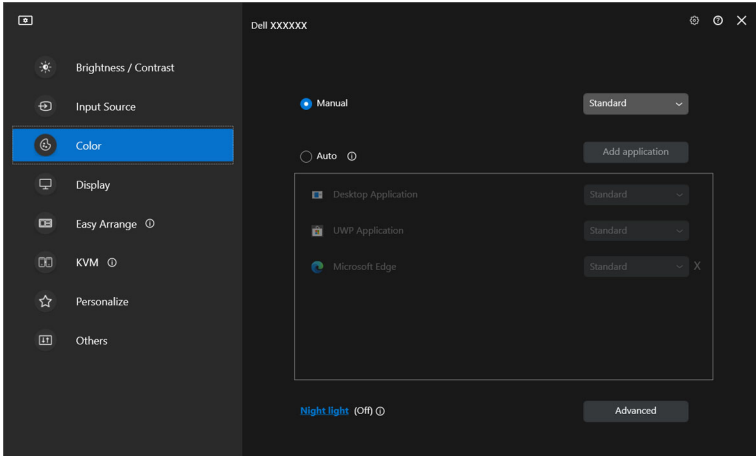
NOTE: The color preset mode assignments for batch files, scripts, shortcuts, and non-executable files, such as zip archives or packed files are not supported.



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 by pressing **Advanced** button in the **Color** menu. You can choose **Automatically adjust the ICC color profile based on color preset** or **Automatically adjust the color based on ICC profile**.



Automatically adjust the ICC color profile based on color preset

The corresponding ICC profile in Windows is changed when you change the color preset from the monitor OSD menu.

Automatically adjust the color based on ICC profile

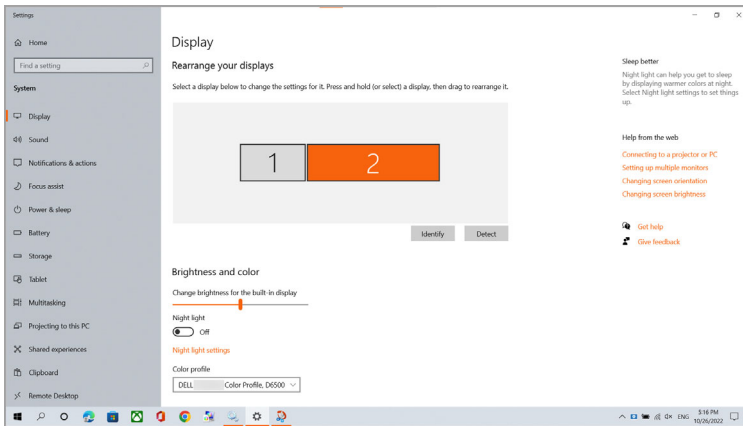
The corresponding color preset is set in the monitor when you change the ICC profile in Windows. You can click the ICC profile link to add the color profile installed for the monitor.



NOTE: Currently, this function is not supported when display is set to **show only on external monitor**.

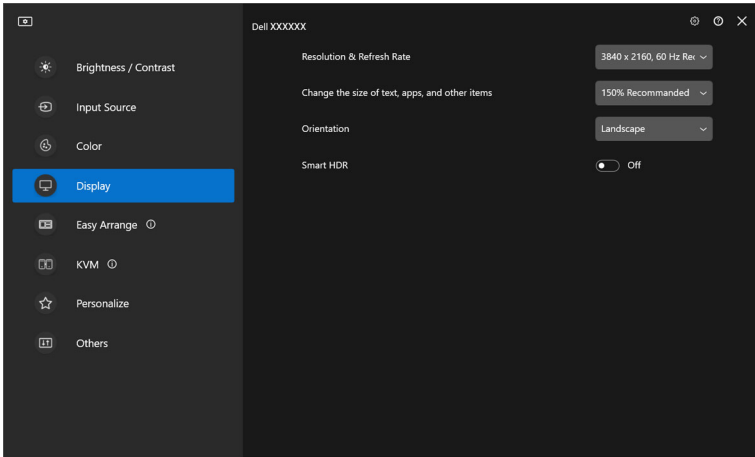
Changing the ICC/ICM profile in Windows

Select a color profile from the **Color Profile** drop-down list in **Display** settings.




Adjusting monitor display settings

On the DDM menu, select **Display** to change common monitor settings.



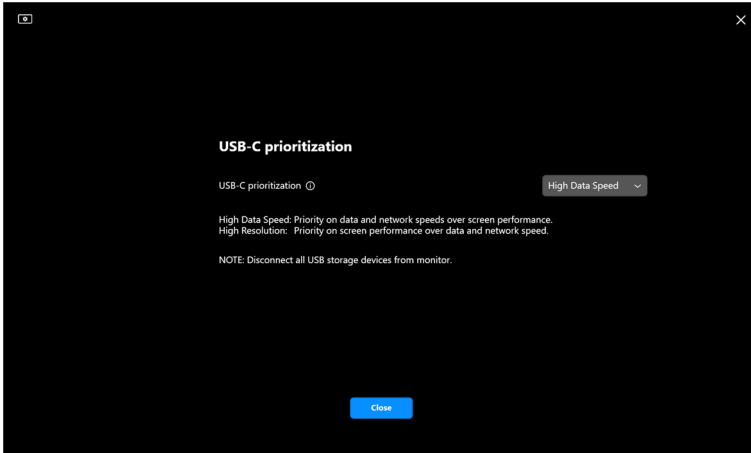
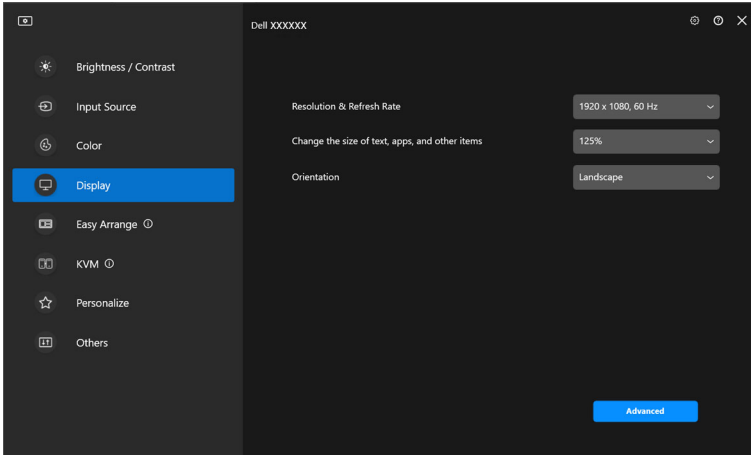
Feature	Function	Description
Display	Resolution & Refresh Rate	Adjust the resolution and refresh rate of the display setting.
	Change the size of text, apps, and other items	Scale the user interface component up or down.
	Orientation	Change the orientation of the monitor operating system display. NOTE: For monitors that support changing orientation from DDM, the monitor OSD orientation setting will change accordingly.
	Smart HDR	Turn on/off HDR of the monitor and the display settings.


 **NOTE:** The Smart HDR function is only available for monitors that support this function.



USB-C prioritization

From the **Display** menu, press **Advanced** to set the preferred **USB-C prioritization** option.



 **NOTE: USB-C prioritization is only available for monitors that support this function.**



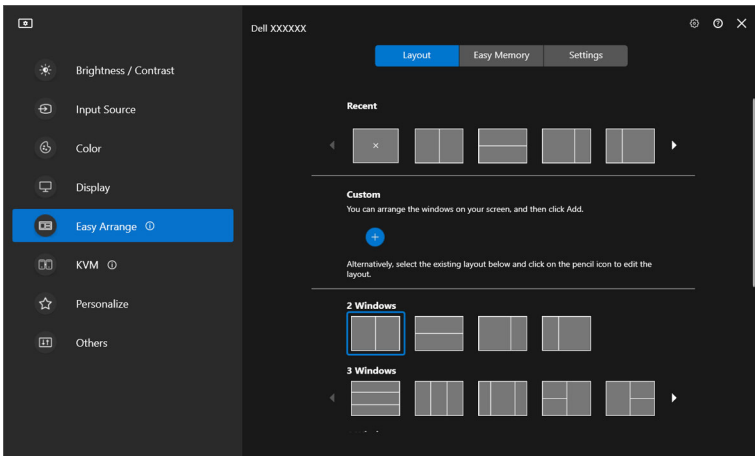
Organizing windows with Easy Arrange

The **Easy Arrange** menu simplifies the way applications are displayed on windows on your monitor.

Layout

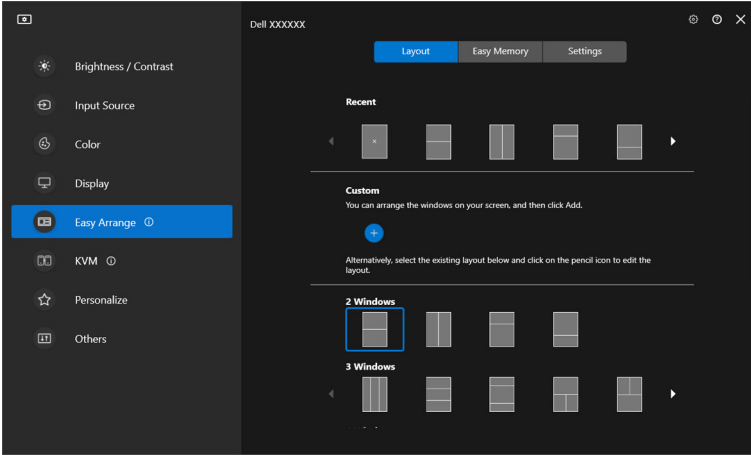
Perform the following steps to organize the windows:

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 it in the zone. The application snaps to the selected zone.



Landscape mode of the **Easy Arrange** layouts



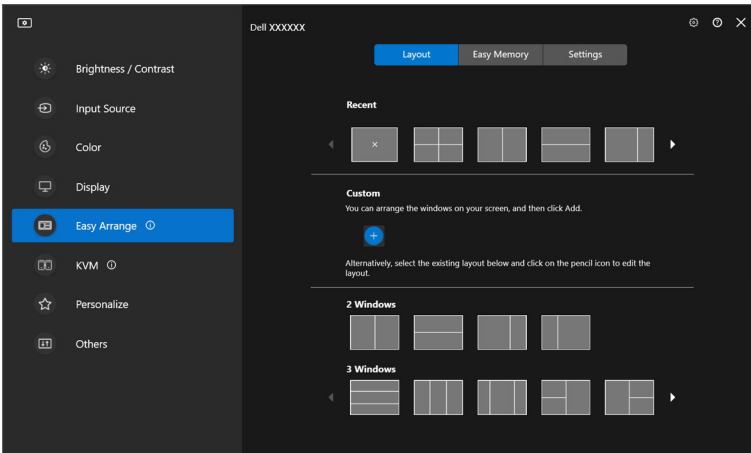


Portrait mode of the **Easy Arrange** layouts are displayed when you rotate the monitor

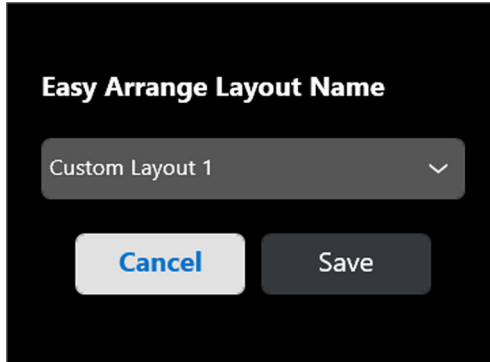
Customized layout

You can add a new customize layout to your preference. Perform the following steps to add a new customize layout:

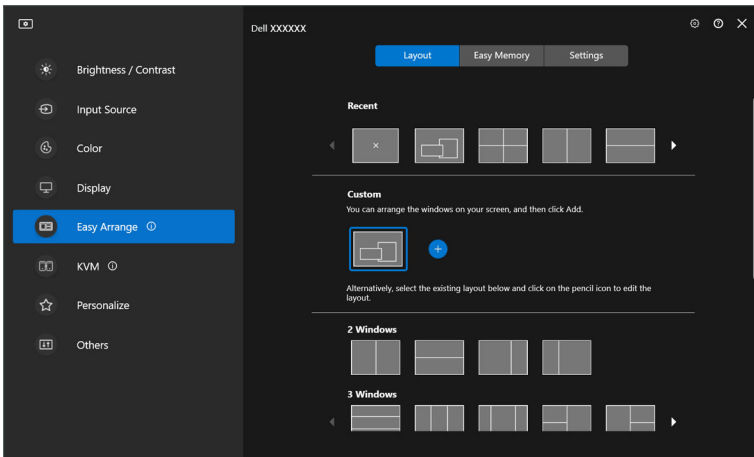
1. Arrange the windows on your screen, then click the **+** icon. The layout will be set according to your windows arrangement.



2. On the save dialog, choose an layout name for the new layout.

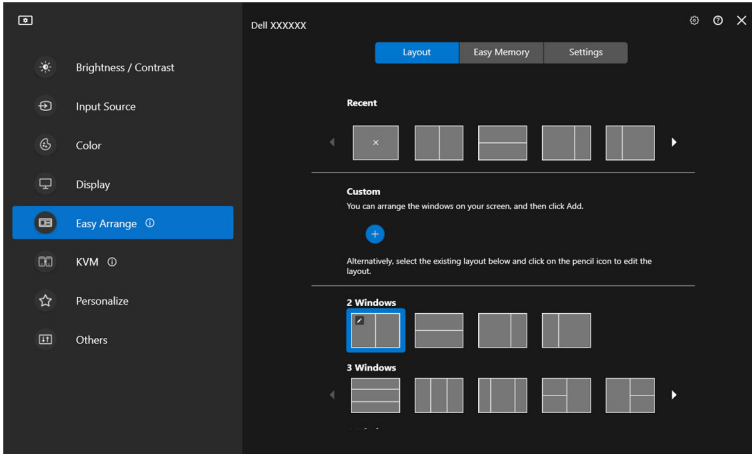


3. Click **Save** to complete customization.

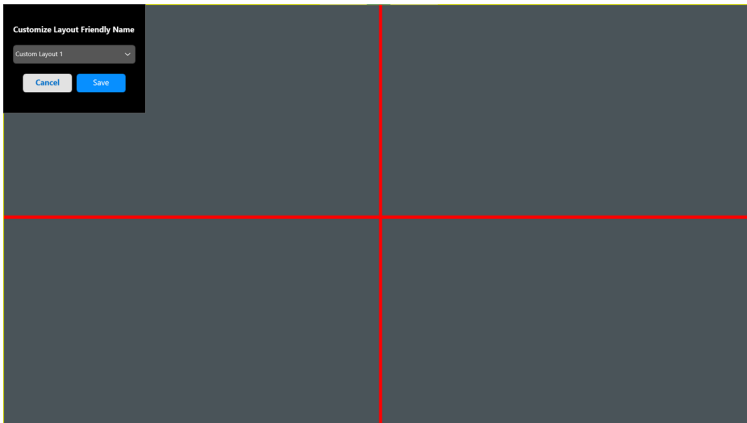


You can also edit any existing layout to your preference. Perform the following steps to customize an existing layout:

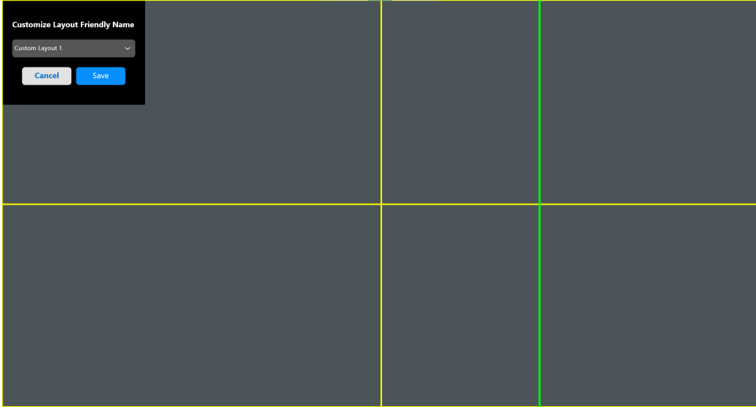
1. Hover the mouse cursor over the layout to be customized, and click the pen icon.



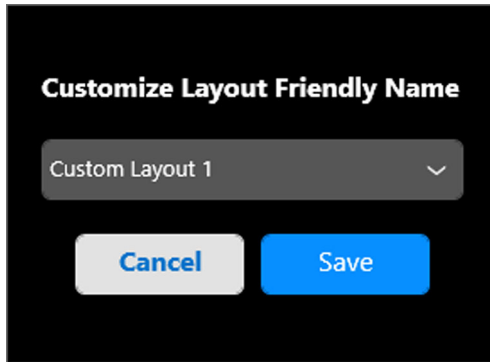
2. The layout with RED grid lines appear on screen. Press on the RED grid line to adjust the layout.



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



4. On the save dialog, choose an layout name for the new layout.



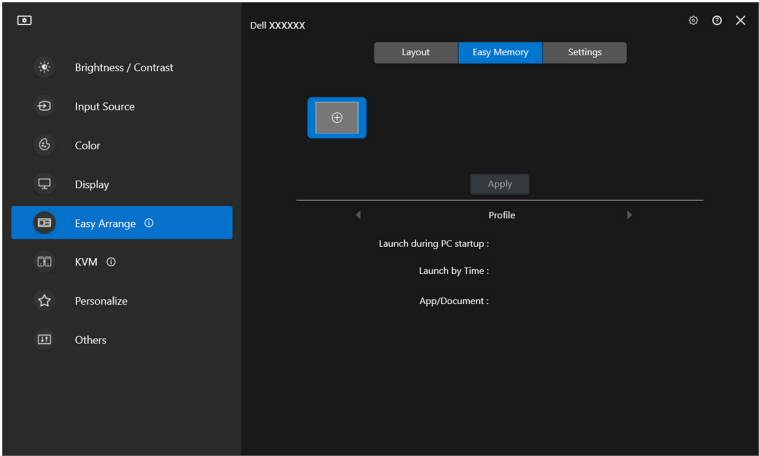
5. Click **Save** to complete customization.



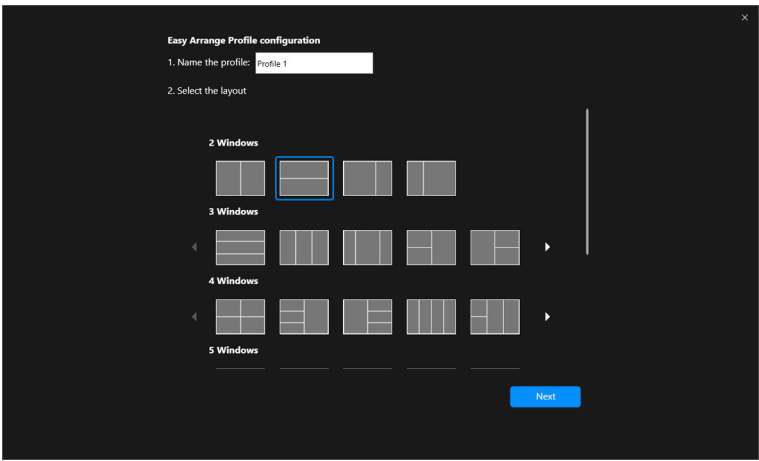
Easy Memory

Easy Memory allows user to save application or files in their respective partition into different profiles and restore them manually, by scheduled time or at system start-up. Perform the following steps to create profile and launch it:

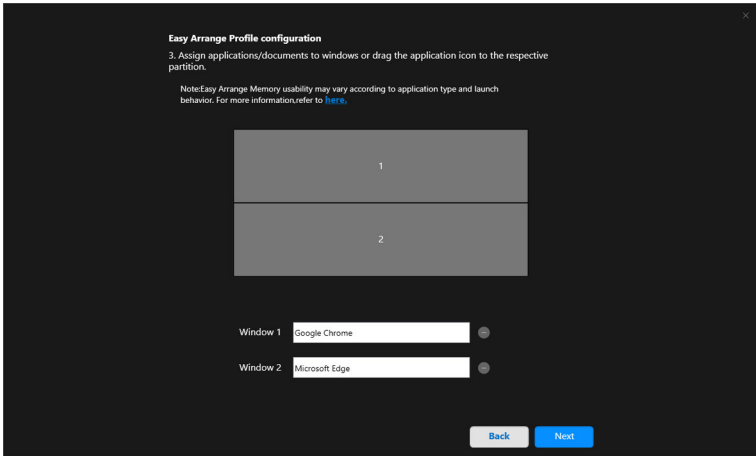
1. Click the **+** icon to create a new profile.



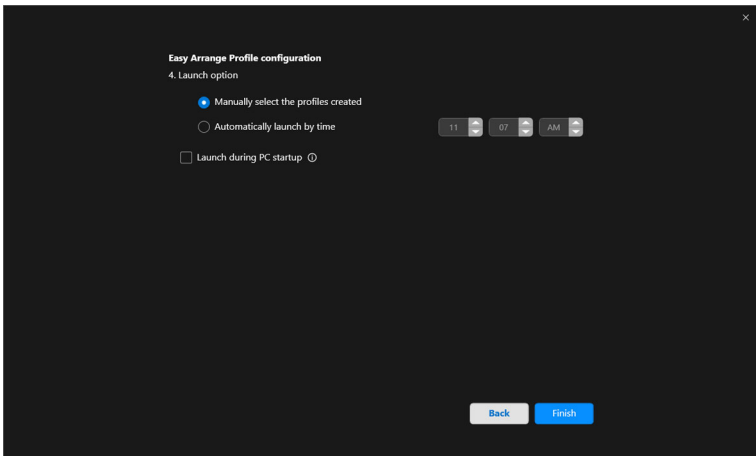
2. Input the profile name and select a layout. Click **Next**.



3. Assign application or file to be shown in each partition by clicking **+** or by dragging the file into partition. Click **Next**.



4. Configure the time to launch the profile and click **Finish**.



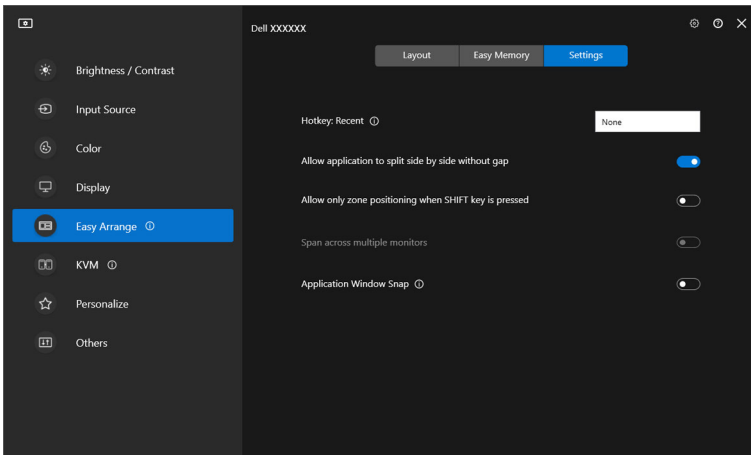
Easy Arrange Memory usability may vary according to application type and launch behavior. **Easy Memory** works with general productivity apps such as Microsoft Office, Adobe, Web browsers and more.

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

Settings

Configure the personal preferences.



Feature	Function	Description
Easy Arrange	Hotkey: Recent	Configure a hotkey (for example, Alt+R) to select recently used layouts. You can also change to your preferred hotkey here.
	Allow application to split side by side without gap	Enable this function to allow application snap side by side without a 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.
	Application Window Snap	Snap any application into a split screen layout easily by dragging into the partition.

-  **NOTE:** If an application window cannot fit in the zone that is defined by Easy Arrange, the application may not display 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.



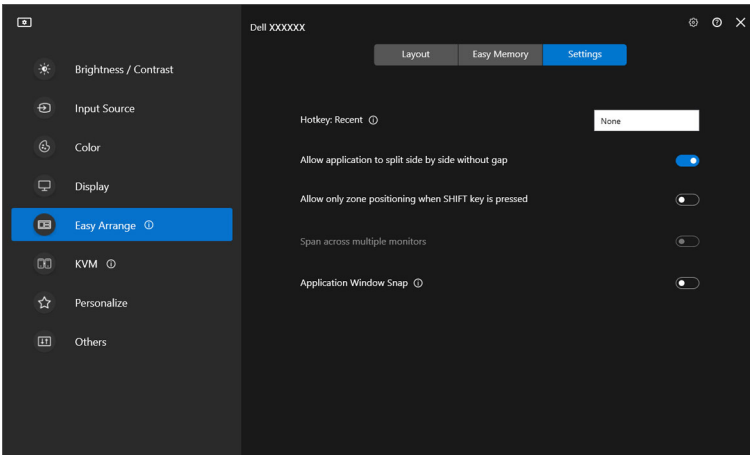
Using the Application Window Snap

The **Application Window Snap** is designed to enable application placement on any screen quickly. When this function is enabled in DDM, 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.

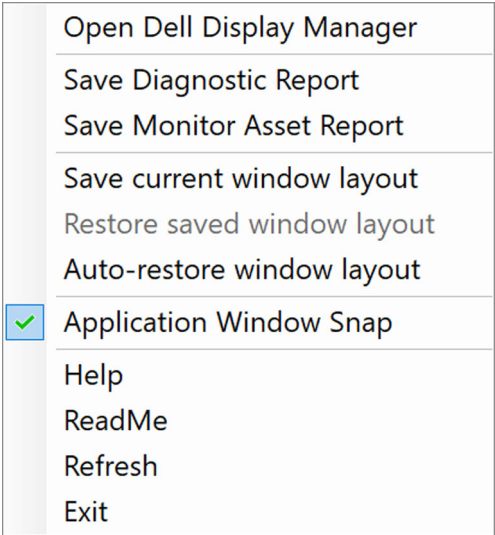
When this function is turned on, it replaces the **Easy Arrange** option such that the user can snap their application conveniently to the respective monitor and zone in the four most recently used **Easy Arrange** layouts.

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

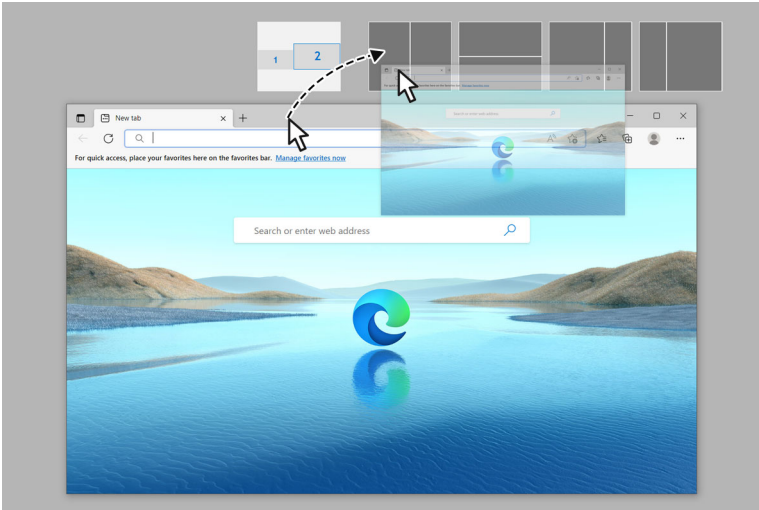
- Launch DDM, go to **Easy Arrange** menu, and enable the **Application Window Snap** function.



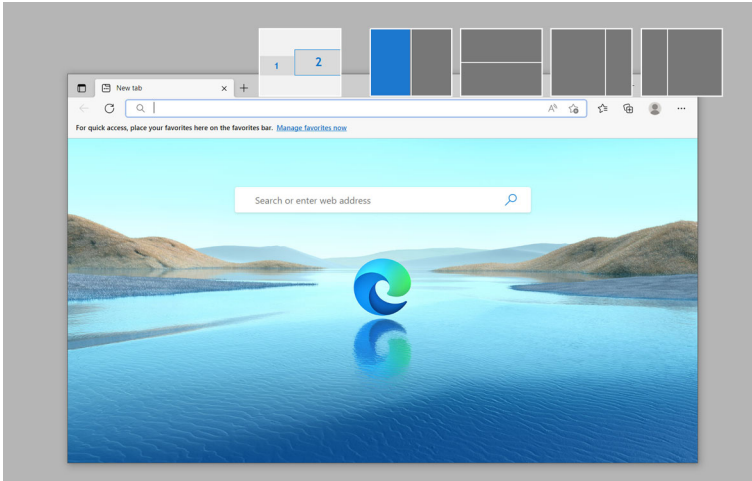
- Right-click the DDM icon on the status bar, and select **Application Window Snap** to enable the function.



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



- The application will be snapped into the select zone.

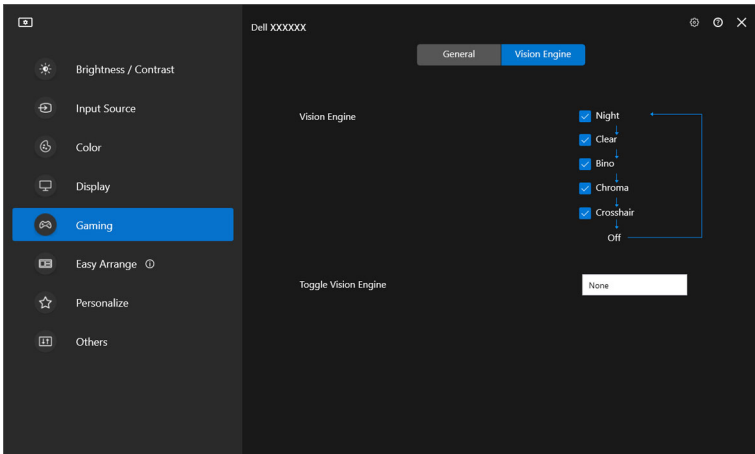
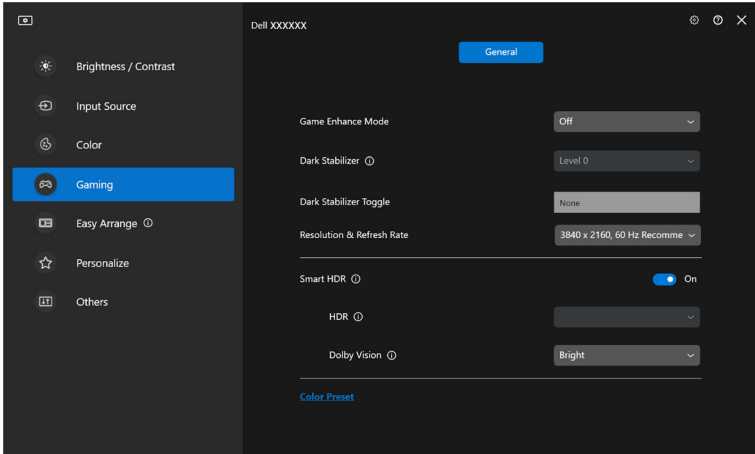


You may turn this function off from the **Easy Arrange** menu when you want to use **Span across multiple monitors**.




Configuring the gaming settings

You can configure the **Gaming** menu that is available only on Alienware and Dell Gaming monitors.



Feature	Function	Description
General	Game Enhance Mode	Select the game enhance mode from the drop-down list.
	Response Time	Select the response time from the drop-down list.
	Dark Stabilizer	Select the dark stabilizer from the drop-down list.
	Dark Stabilizer Toggle	Configure your preferred hotkey (for example, Alt+S) to toggle the dark stabilizer levels. You can also change to your preferred hotkey.
	Smart HDR	Toggle Smart HDR on or off. When Smart HDR is on, select the HDR mode or the Dolby Vision mode from the drop-down list.
	Color Preset	Click Color Preset for more color options.
Vision Engine	Vision Engine	Select one or more vision engines that you can use when playing games.
	Toggle Vision Engine	Configure your preferred hotkey (for example, Alt+T) to toggle the Vision Engine . You can also change to your preferred hotkey.

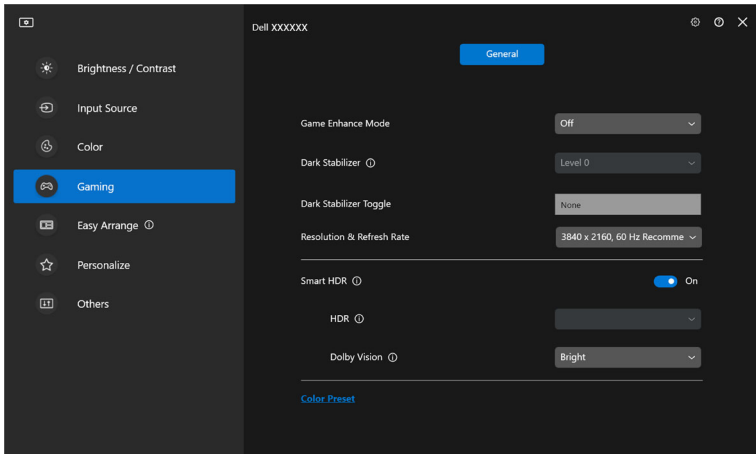
 **NOTE:** The Gaming menu functions and available options vary depending on the model of the monitor.




Dolby Vision

Dolby Vision allows you to set the Dolby Vision HDR mode to:

- **Bright:** Compliant with Dolby Vision Bright mode settings.
- **Dark:** Compliant with Dolby Vision Dark mode settings.
- **Game:** The mode will be automatically activated once the Dolby Vision games are detected. Also, you can select this mode to enable Dolby Vision for gaming.



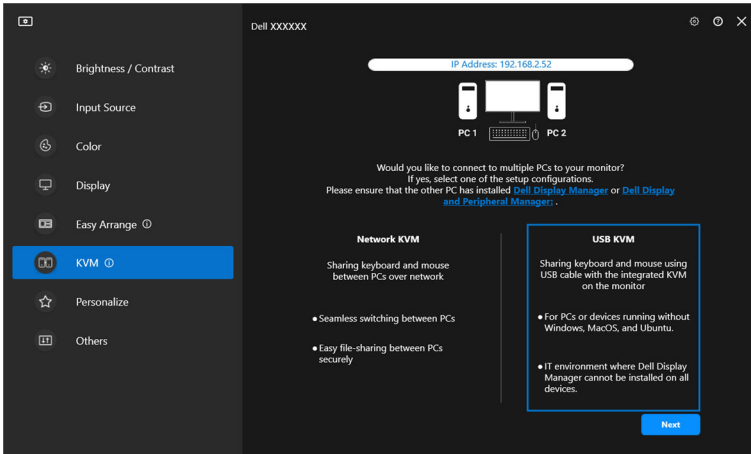
 **NOTE:** The feature is disabled when there is no Dolby Vision content displayed, or Smart HDR is set to Off, or Custom Color HDR (under Smart HDR) is selected.



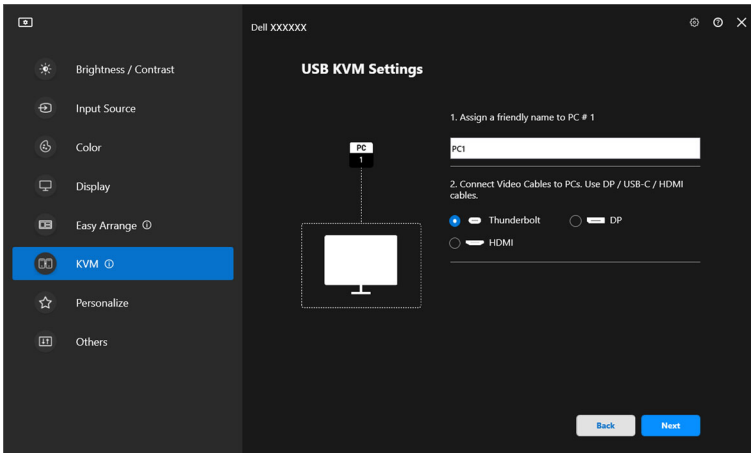
Setting up the USB KVM

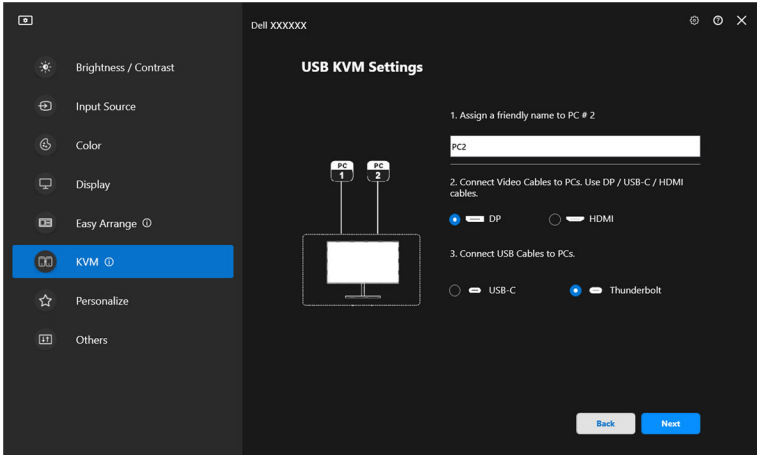
Monitors with USB KVM support allow connected computers to share keyboard and mouse during setup.

To setup, select **USB KVM**, click **Next**, and follow the on-screen instructions to set up the computers that are connected to the monitor.

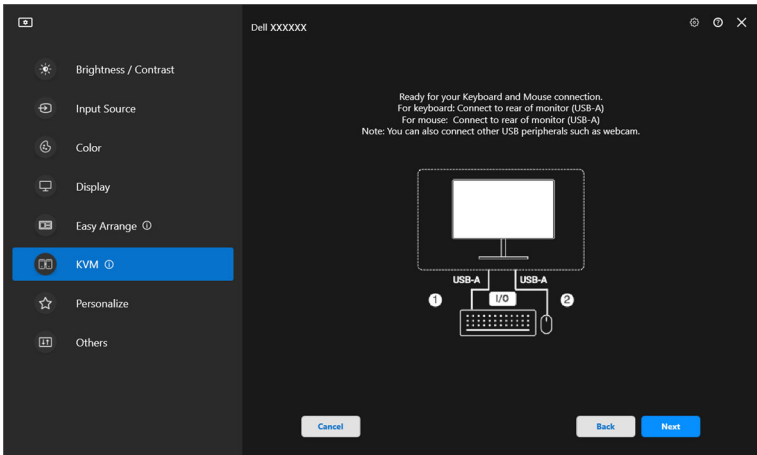


1. Pair the input sources with their connectors and assign preferred names.

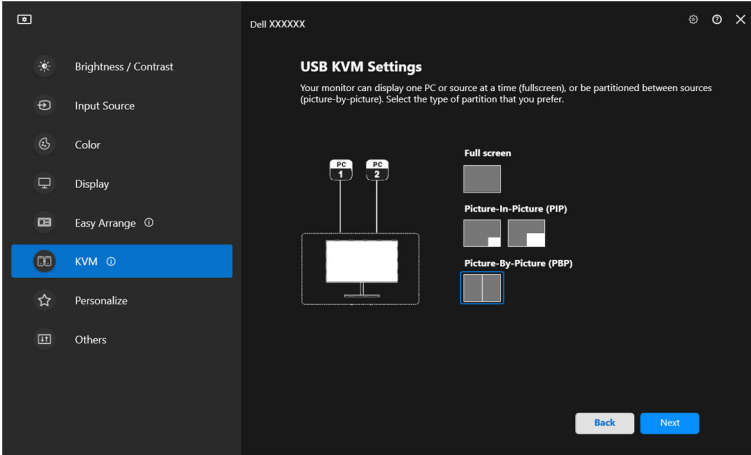




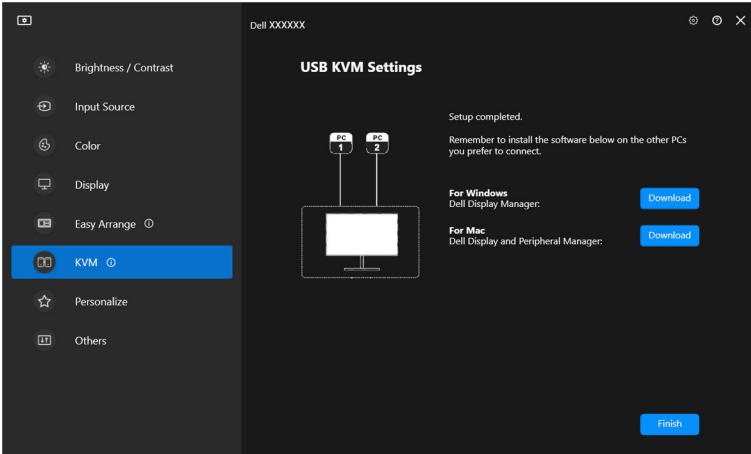
2. Connect keyboard and mouse to the monitor.




3. Select a preferred layout.



4. Click **Download** to download **Dell Display Manager (Windows)** or **Dell Display and Peripheral Manager (Mac)** for other computers you wish to connect. Finally, click **Finish** to save and exit KVM setup.

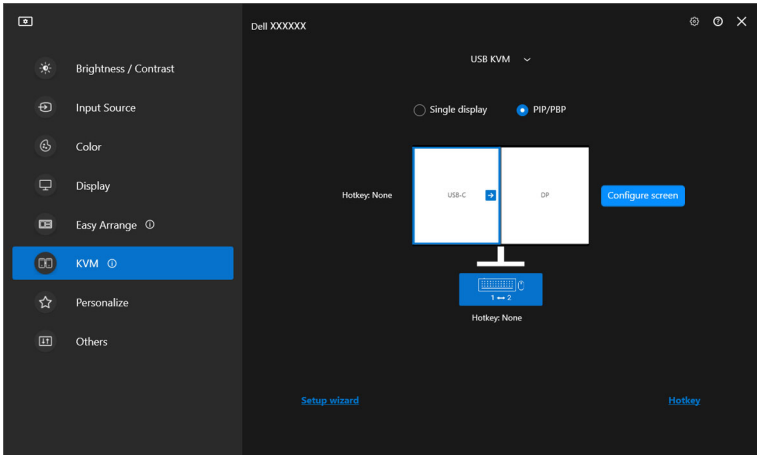
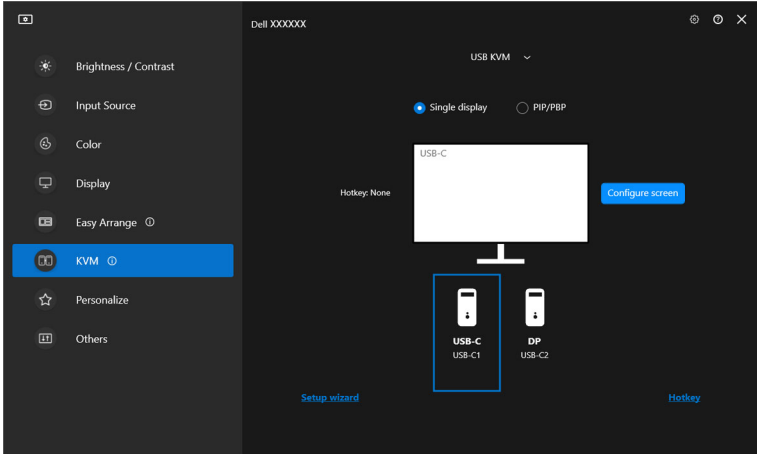


 **NOTE:** DDM communicates with your monitor even when the monitor is displaying video from another computer. You can install Dell Display Manager (Windows) or Dell Display and Peripheral Manager (Mac) on the computer you frequently use, and control input switch from it. You can also install Dell Display Manager (Windows) or Dell Display and Peripheral Manager (Mac) on other computers connected to the monitor.



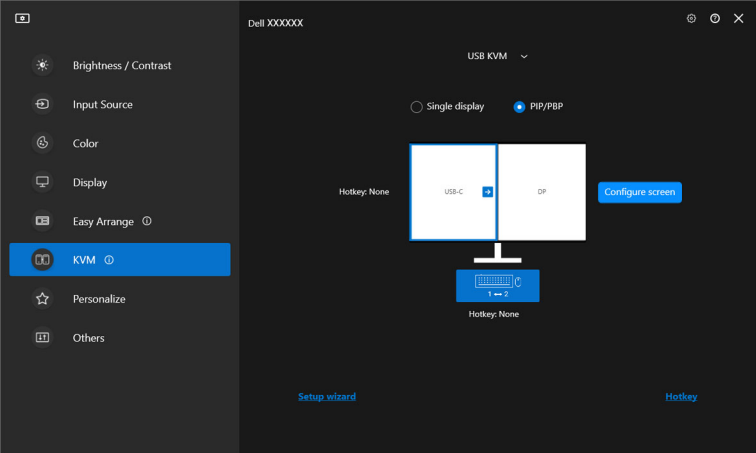
Changing USB KVM configuration

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



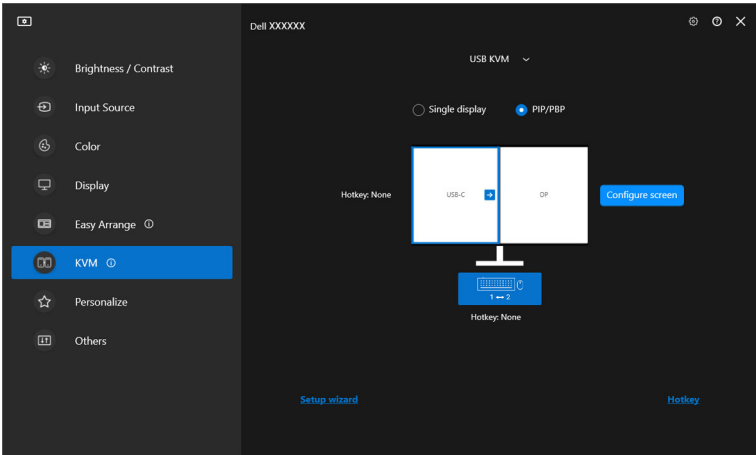
Feature	Function	Description
Single display	Change video input	Change current video input by clicking the desktop computer icon or press hotkey .
PIP/PBP	Video swap	Swap video input of main/sub by clicking the arrow or press hotkey (only available in PIP or PBP side by side layout).
	USB switch	Click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

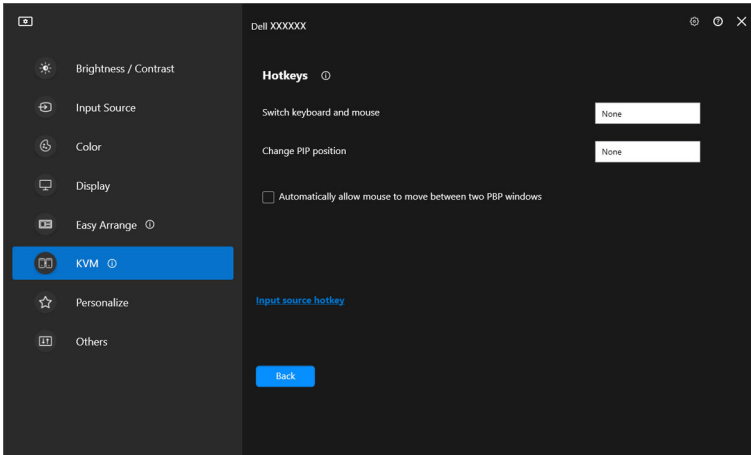
1. Click **Configure screen** to enter the **KVM configure screen** page and change the screen layout.






2. Click **Hotkey** to enter the **Hotkeys** page and configure KVM hotkeys.





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


Feature	Function	Description
Hotkeys	Switch between computers	Configure your preferred hotkey (for example, ALT+P) to switch between the computers in single display mode.
	Switch keyboard and mouse	Configure your preferred hotkey (for example, ALT+U) to switch keyboard and mouse between computers in PBP or PIP mode.
	Change PIP position	Configure your preferred hotkey (for example, Alt+Q) to change the PIP position.
	Automatically allow mouse to move between two PBP windows	Check to enable the keyboard and mouse switching from one computer to another computer by sliding across the edge when PBP mode is turned on
	Input source hotkey	Click Input source hotkey for more hotkey configuration.




Setting up the Network KVM

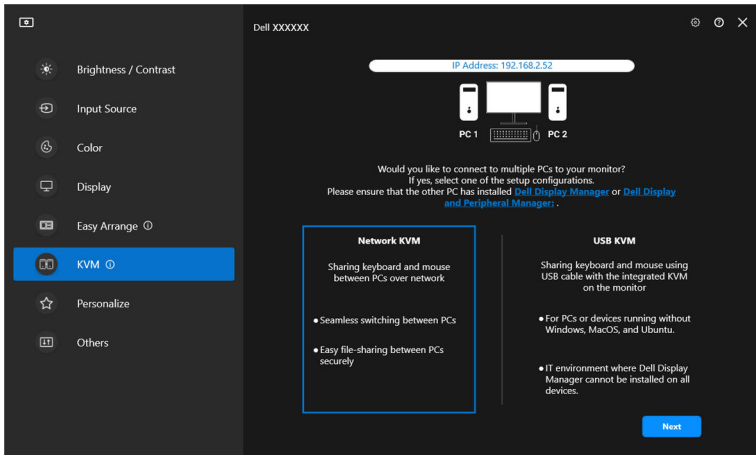
For monitors that support the **Network KVM** function, any computer can share its connected keyboard and mouse with other computers that are connected to the same network. It also allows file transfer between computers through the network.


The **Network KVM** is available in the KVM wizard. Click the **Network KVM** block and follow the on-screen instructions to setup **Network KVM**.

 **NOTE:** The **Network KVM** is only available for selected monitors that support this function.

 **NOTE:** Disconnect **Network KVM** before switching to another user. **Network KVM** will reconnect to the current cluster when **Network KVM** is turned on, when the computer wakes from suspension, when connecting to a supported monitor, or when network configuration changes. Access data for each user is saved separately.

1. Select the **Network KVM** block and click **Next** to start the setup.

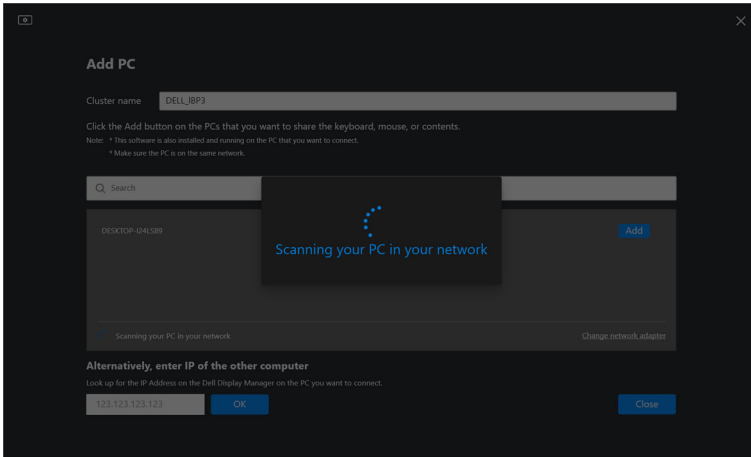


 **NOTE:** If DDM or DDPM is not installed on the target computer, click **Dell Display Manager (Windows)** or **Dell Display and Peripheral Manager (Mac)** to access Dell support page to download the application for the intended computer. Ensure that you complete all items on the checklist.

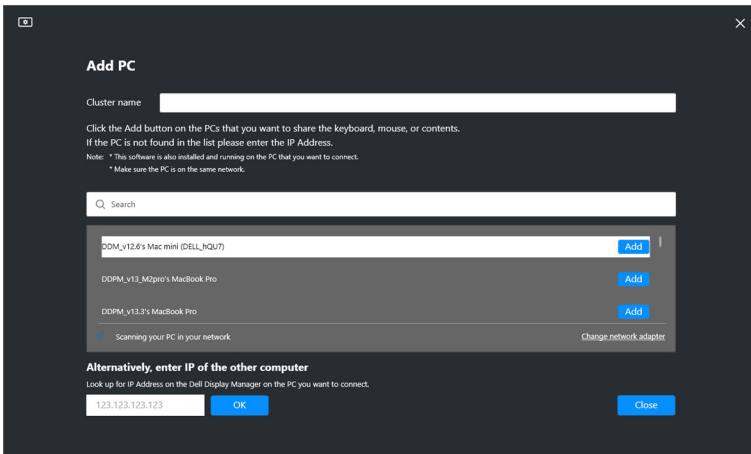


2. Network KVM scans for all computers that are in the same subnet to determine the best mode for the setup.

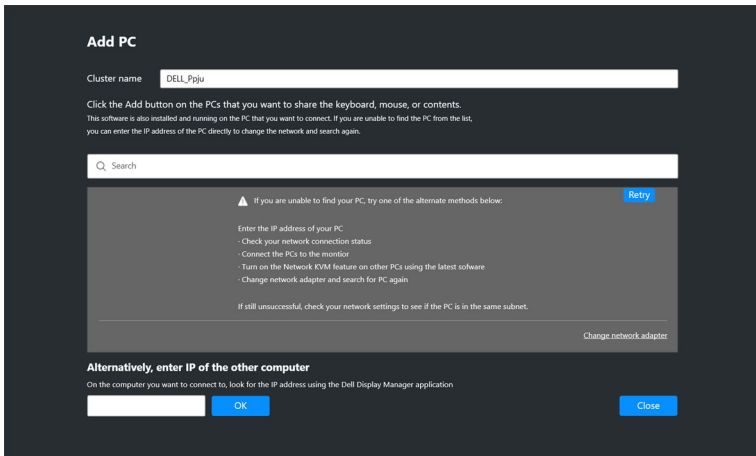
- If there is only one monitor available, and all computers in the subnet are connected to it, **Network KVM** selects **Single display** mode and connects them automatically. Proceed to the **Single display mode**.




- If there are computers in the subnet that are connected to different monitors, **Network KVM** displays the **Add PC** page. Click **Add** to connect the computer.

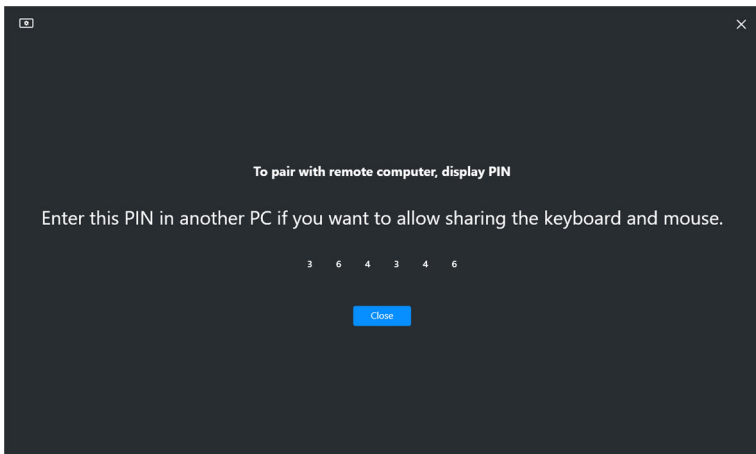


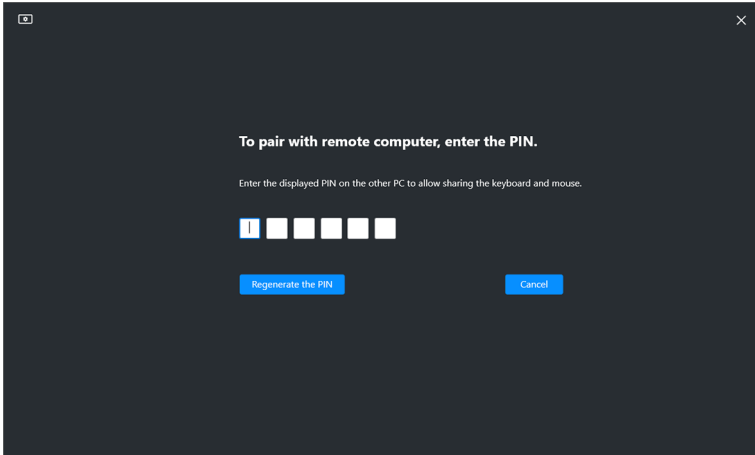
- If the scan does not identify any available computers, follow the on-screen instructions for troubleshooting, then click **Retry** to initiate another scan.



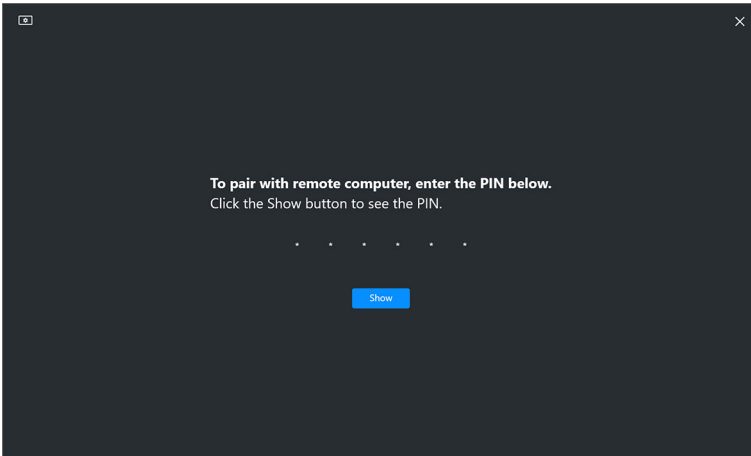
 **NOTE:** If the computer you wish to add is still not found, click **Change Network Adapter** to change the scanning adapter. You can also click **Enter IP** to manually input IP to establish connection.

3. When connecting to a computer with a different monitor for the first time, a PIN appears on the remote computer that you are connecting to. Enter the PIN on the local computer to continue the connection process.





 **NOTE:** If the local computer is connected to another remote computer, the screen prompts user to click **Show** to display the PIN code.




4. When the remote computer is connected, the computer is shown as **Added**.



5. Network KVM selects best mode of setup depending on status of connected computers.

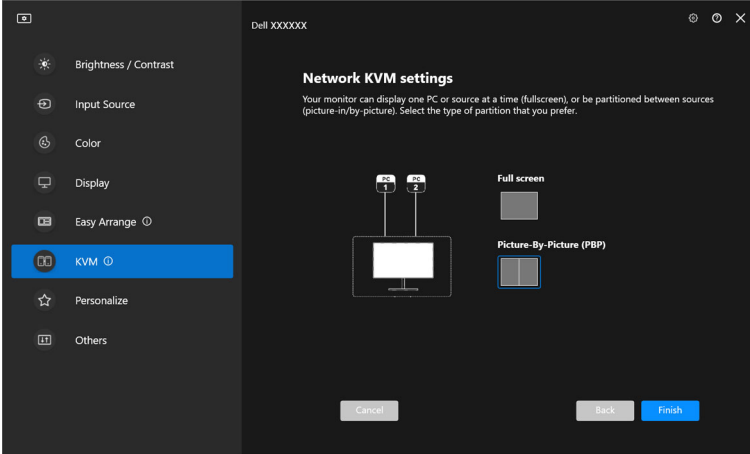
Computer and monitor connection	Description
All computers are connected to the one and only monitor.	The Network KVM sets in the Single display mode.
Connects to a computer which is not logged-in.	
Connects to a computer which is connected to more than one monitor.	The Network KVM sets in the Multiple display mode.
Connects to a computer which is connected with another monitors	

 **NOTE: Network KVM** enables computer control before logging into or out of Windows. It disconnects after login/logout and reconnects when **Network KVM** is available again, causing a delayed connection during the login/logout process.



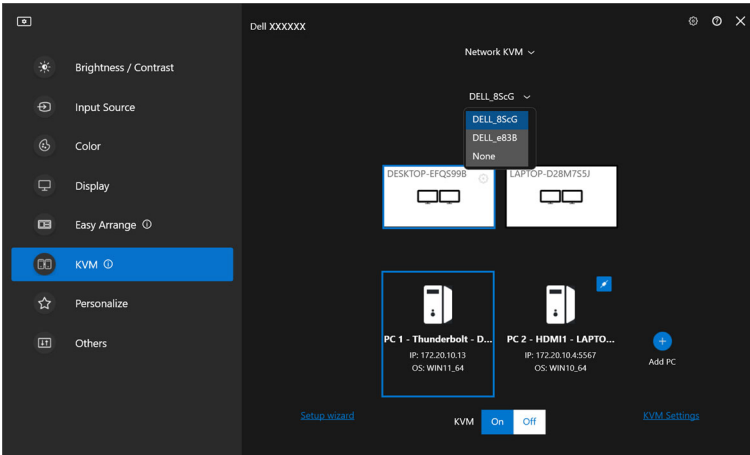
Single display mode

For **Single display** mode, select a preferred PBP layout and click **Finish** to complete the setup.



NOTE: Network KVM supports full screen and PBP, but does not support PIP.

Network KVM automatically saves up to five recently used clusters. Select a recent cluster from the drop-down list to resume or edit previously saved cluster.




NOTE: For managing recent clusters, See [Setting up the Network KVM configuration](#).




Using the Network KVM


The connected computers act as one **Cluster** to run KVM functions. Each **Cluster** may contain up to a maximum of four computers.

Feature	Function	Description
Cluster	Keyboard and mouse sharing	Share keyboard and mouse input with connected computers, but only one computer is in control at any given time. NOTE: When using a high DPI mouse, you may experience delayed response from remote computers due to bandwidth limitations. NOTE: Certain key combinations, function keys, specialized keys, and touch bar keys are not supported for controlling remote computers.
	Mouse crossing	The mouse cursor can cross to other connected computers. The crossing point is determined by KVM settings.
	Clipboard sharing	Allows you to copy clipboard text, image, or files to other connected computers.* NOTE: Cut and Paste is not supported on remote computers.
	Drag and drop	Allows you to drag and drop text or files to other connected computers.*

 **CAUTION:** Dell Display Manager enables secure content and file sharing between computers with end-to-end encryption. However, it does not function as anti-malware software, providing no scanning or protection against malicious files during transfers. It is strongly recommended to install anti-malware or other security tools before utilizing File and Content Transfer in Network KVM. If you prefer not to share files between computers, you can navigate to KVM Settings > Manage Cluster to turn off this feature.



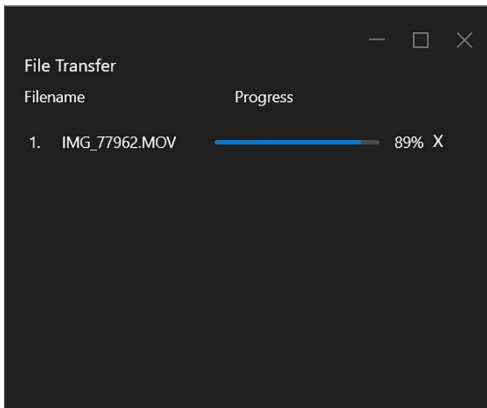
 **NOTE:** You have the option to adjust the mouse crossing point through laptop screen arrangement. If there is a screen positioned between the crossing points in a monitor setup with PBP mode, the mouse might be unable to move to that screen. In such instances, Network KVM may automatically rearrange your monitor positions.


 **NOTE:** The established **Cluster** may not resume connection after **Network KVM** is turned back on from the off state, after the main computer is wake from suspension, or after connecting to a supported monitor. In this case, you may manually switch the cluster from the drop-down list, or you may manually connect the offline computer from the **Network KVM** main page.

* See below table for supported Copy and Paste and Drag and Drop actions.

	Copy and Paste	Drag and Drop
Text (editor)	Supported	Supported
File (folder)	Supported	Supported
Image (editor)	Supported	Not supported
File (editor)	Not supported	Not supported

When copying files to another computer, a **File Transfer** dialog appears. You can track current transfer progress, view error, or cancel the transfer.




 **NOTE:** Filenames with characters that are forbidden under Windows operating system are not supported.



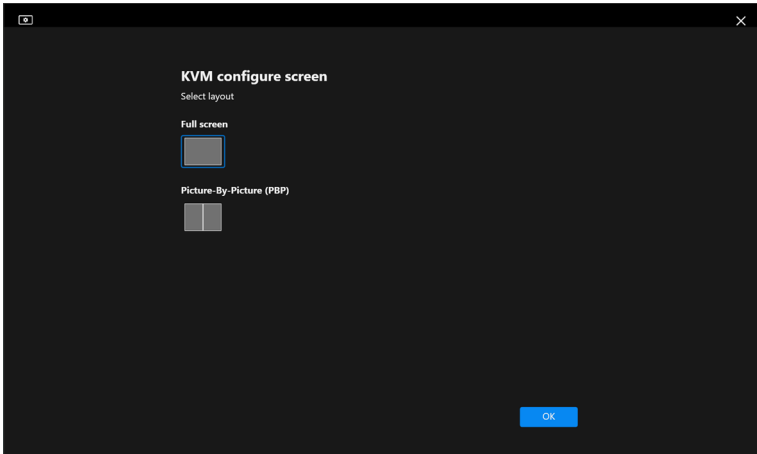
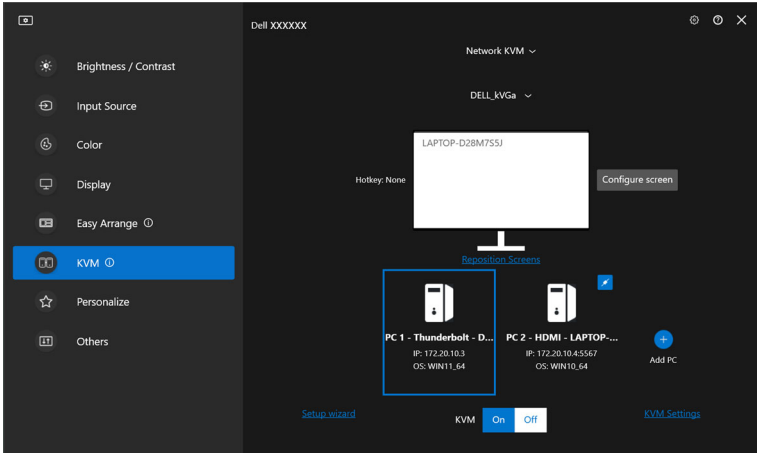
Cluster overview

Network KVM displays current cluster overview after setup is complete.

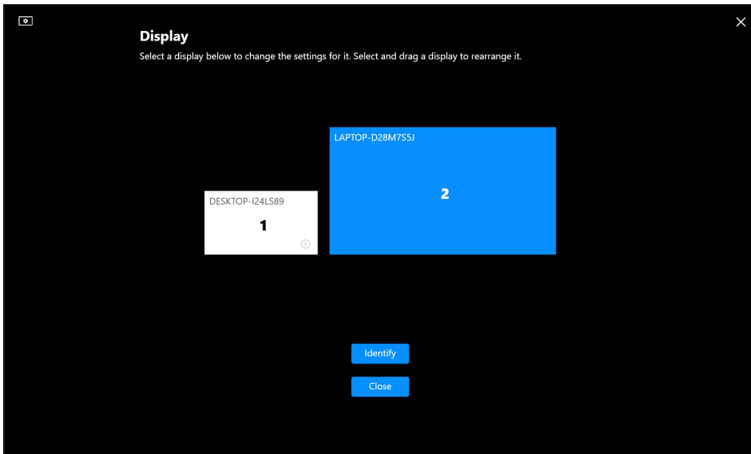
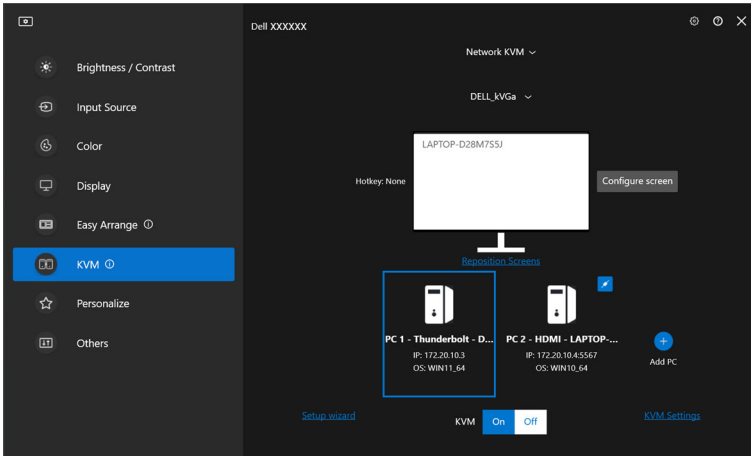
 **NOTE:** Network KVM overview may vary depending on the type of setup.

Single display (PBP Off)

- Click **Configure screen** to enter the **KVM configure screen** page and change the screen layout.



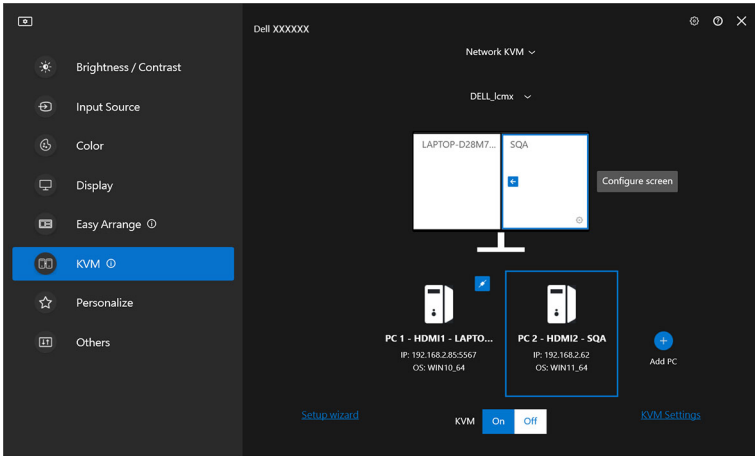
- Click **Reposition Screens** to enter the **Display** page and swap computer positions.




Feature	Function	Description
Reposition Screens	Swap screen	Drag and drop the monitor block to arrange horizontal position. The blue, enlarged block is the monitor that is connected to the currently active computer.
	Identify	Click Identify to show the assigned designation number of each computer connected to the monitor.



Single display (PBP On)

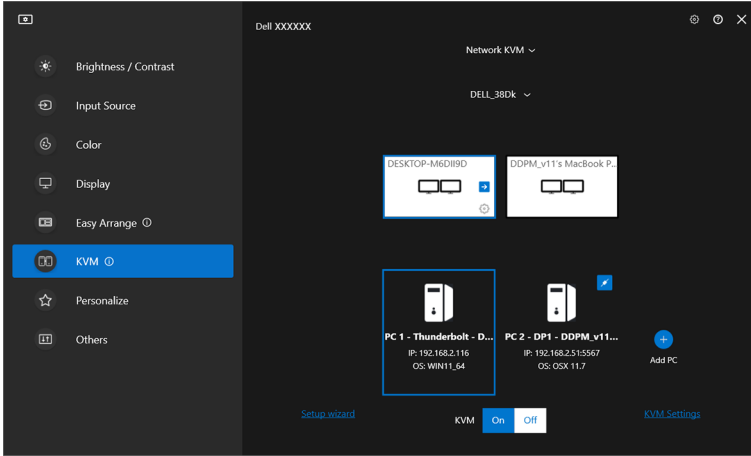


Feature	Function	Description
Single display	Video swap	<ul style="list-style-type: none"> • Move the cursor to the monitor block and click the arrow that appears. • Drag and drop one monitor block to another monitor block.




 **NOTE:** For switching computer hotkey, See [Setting up the Network KVM configuration](#).



Multiple Displays

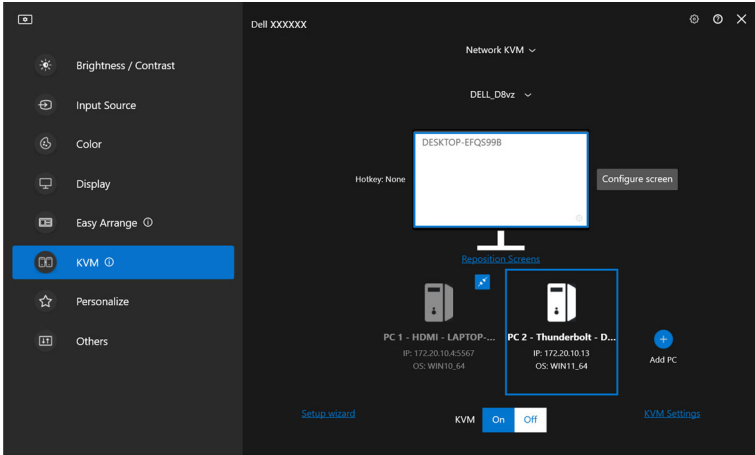


Feature	Function	Description
Multiple displays	Swap screen	<ul style="list-style-type: none"> Move the cursor to the monitor block and click the arrow that appears. Drag and drop one monitor block to arrange horizontal position.

-  **NOTE:** Review the display settings on each computer in your operating system to assess the layout of multi-displays and settings.
-  **NOTE:** You can connect and control up to four computers in a **Network KVM** setup.
-  **NOTE:** If **DDM** is unable to read PBP position through DDC/CI, **Network KVM** automatically selects multiple displays setup, which arranges computers in horizontal positions instead of monitor PBP positions.



System overview



Information of all computers on a cluster is displayed at the bottom of the **KVM** menu. The local computer has a blue border. The connected computers are shown in white, while disconnected computers are shown in gray.

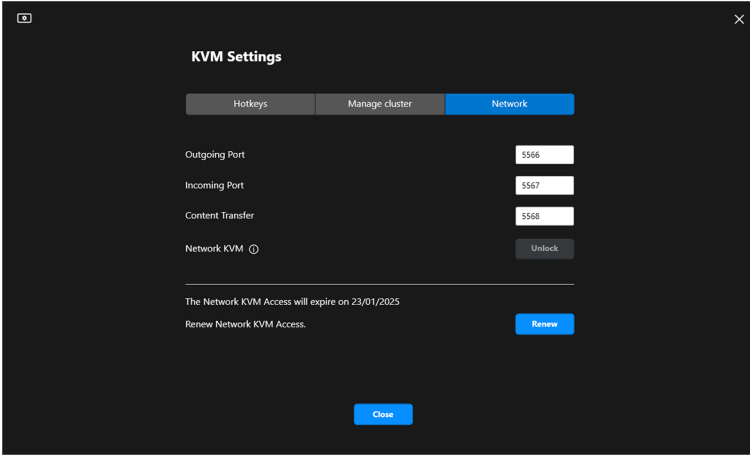
Feature	Function	Description
System overview	Connect	<ul style="list-style-type: none"> Right-click the computer block to display menu, then click Connect to reconnect a disconnected computer. Click the connect button to reconnect a disconnected computer.
	Disconnect	<ul style="list-style-type: none"> Right-click the computer block to display menu, then click Disconnect to disconnect a connected computer. Click the disconnect button to reconnect a disconnected computer.
	Delete	Right-click the computer block to display menu, then click Delete to remove the computer from the cluster.
	Switch PC	In Single display mode with PBP Off, click Switch PC to switch video input between computers.



Setting up the Network KVM configuration

You can change the **Network KVM** configuration by using the **KVM Settings** on the bottom-right of the **KVM** menu.

Network

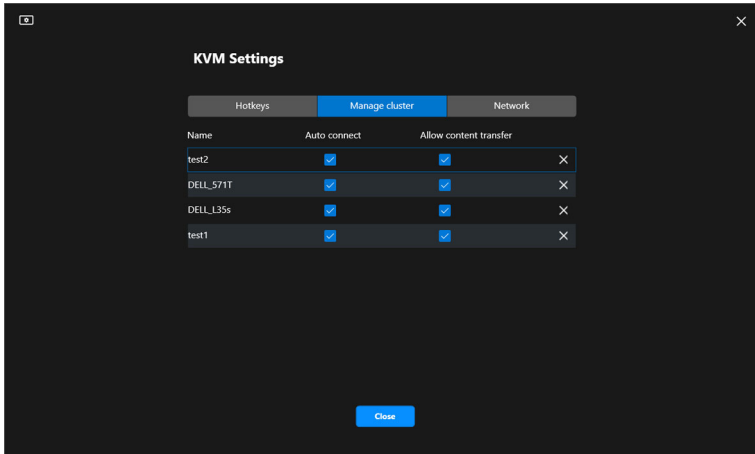


Feature	Function	Description
Network	Ports (Outgoing Port, Incoming Port, Content Transfer)	Allows you to setup network and file transfer ports. The port number must be between 1024 and 49151. Each port must be distinct from all others.
	Network KVM	When Network KVM detects abnormal activities, it automatically locks the network feature for security purposes. Toggle the switch to unlock.
	Network KVM Access expiry date	To enhance security, Network KVM expires the access files every year. After your access expires, you must setup the cluster again.
	Renew Network KVM Access	For security purposes, if your access is compromised, you can renew the access. After renewing the access, you will have to authenticate your remote computers again.




Managing clusters

You can change the configuration of five most-recent clusters.

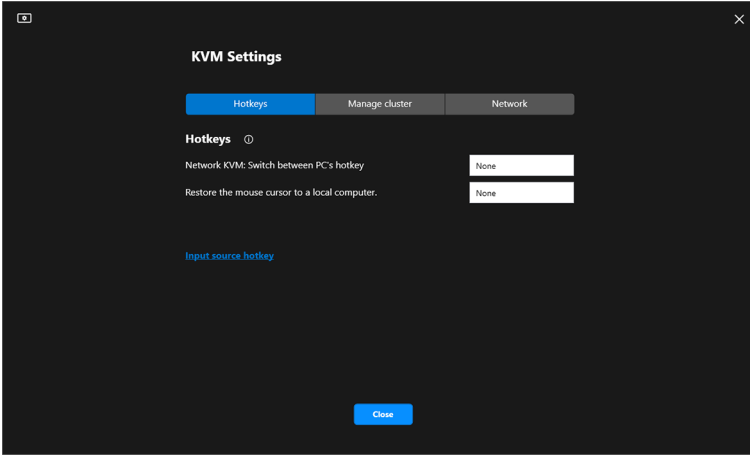


Feature	Function	Description
Manage Cluster	Rename cluster	Click the name or the pencil button to edit cluster name.
	Delete cluster	Click the delete button to delete cluster.
	Auto connect	Select the check-box to automatically resume cluster at DDM startup.
	Allow content transfer	Select the check-box to allow sharing clipboard and files.

 **NOTE:** The settings for content transfer and auto connect follow the cluster creator's initial setting and can be modified in **KVM settings**. The settings are synced with other connected computers in the same cluster.



Hotkeys



Feature	Function	Description
Hotkeys	Network KVM: Switch between PC's hotkey	Press this hotkey to switch between computer sources in Single display mode.
	Restore the mouse cursor to a local computer.	Move the control back to the primary monitor of the computer which the keyboard is connected. The mouse pointer returns to the center of the primary monitor. NOTE: If the primary monitor of the computer is not active, Network KVM will switch the monitor input source to the computer.
	Input source hotkey	Assign hotkey to switch input sources.

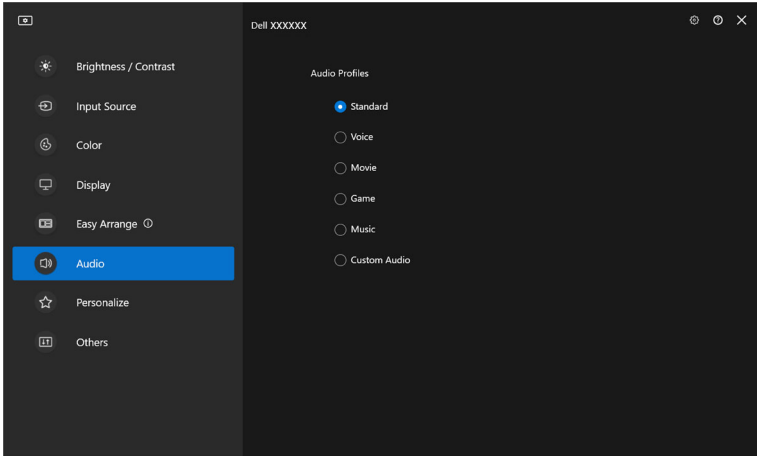


NOTE: Hotkey settings in Network KVM sync automatically with all connected computers in the cluster.



Configuring the audio settings

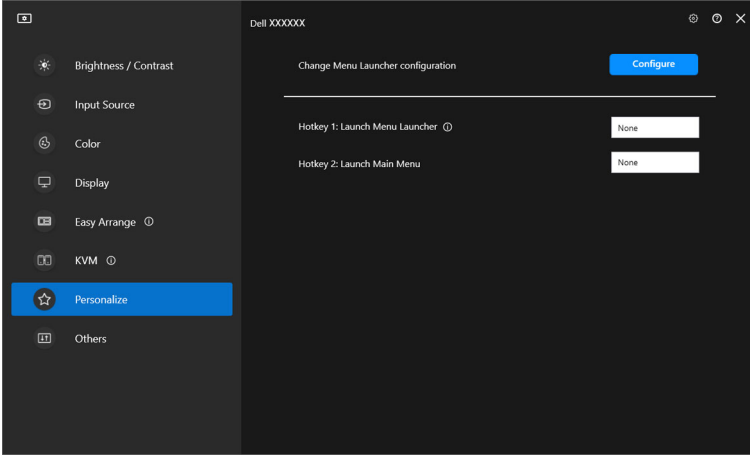
From the **Audio** menu, set the preferred **Audio Profiles** for your monitor.



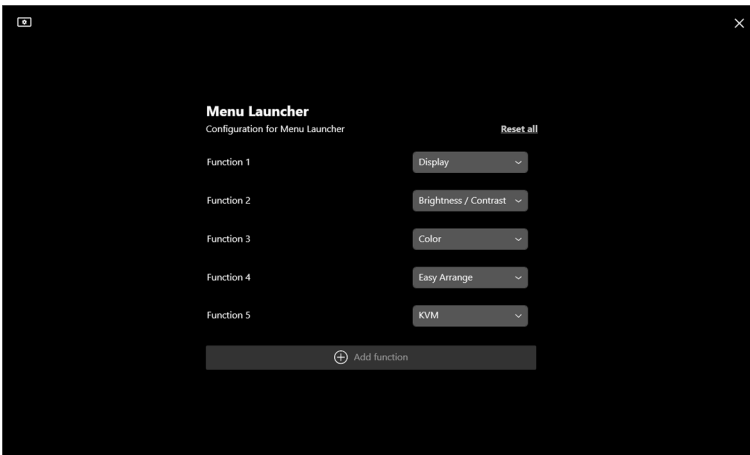
Personalize settings

Changing Menu Launcher configuration

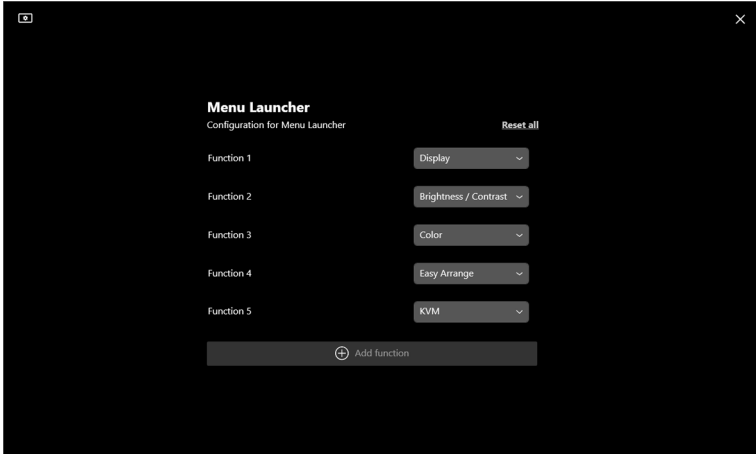
1. Click **Configure** to change the quick access function on **Menu Launcher**.




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



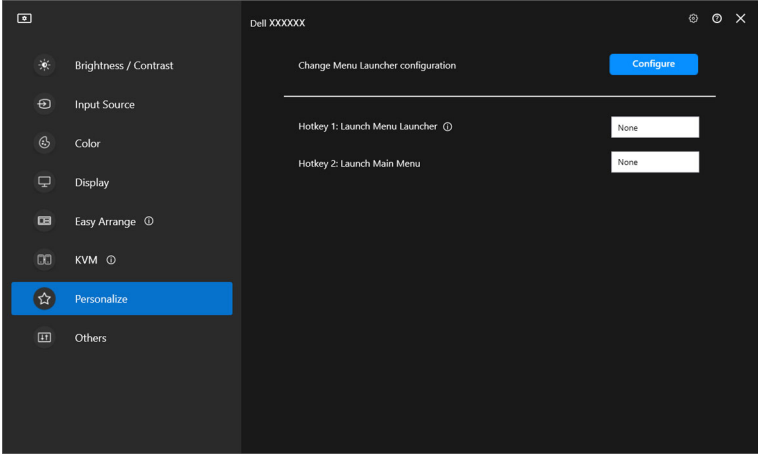
3. Click **Reset all** to reset the functions of **Menu Launcher**.



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



Changing Launch DDM Hotkey configuration

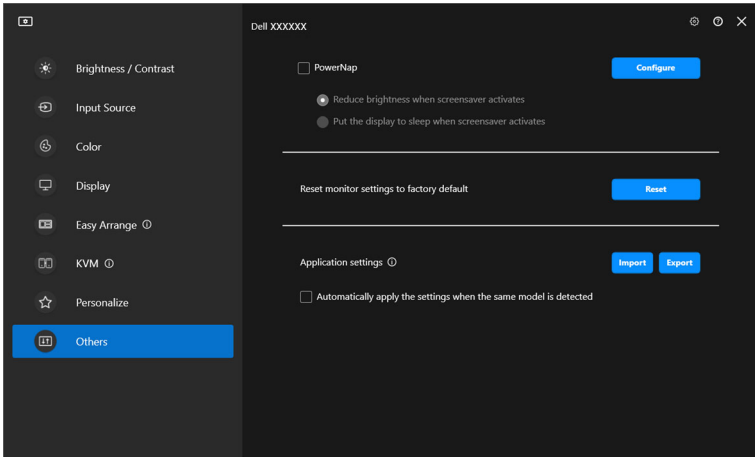



Feature	Function	Description
Personalize	Launch Menu Launcher	Configure a hotkey (for example, ALT+M) to bring up the Menu Launcher box of the monitor where the mouse cursor is currently located.
	Launch Main Menu	Configure a hotkey (for example, ALT+D) to bring up the Main Menu of the monitor where the mouse cursor is currently located.



Applying energy conservation features

On the supported Dell models, **PowerNap** energy conservation options are available under **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.

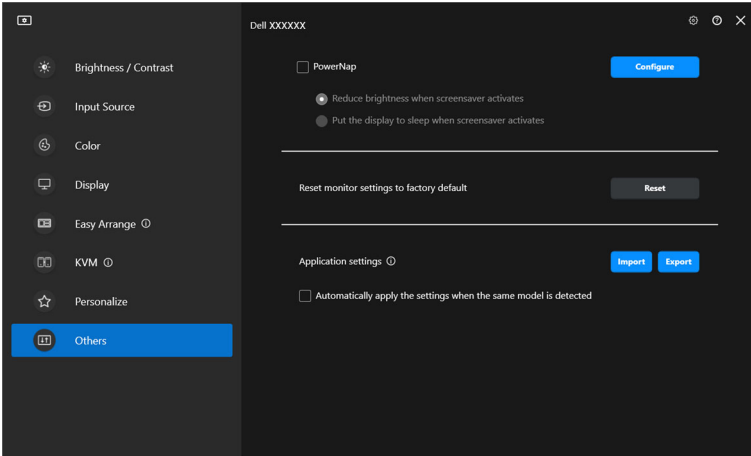


 **NOTE:** PowerNap option is disabled in PBP or PIP to prevent disruption of the normal activities.



Resetting monitor settings

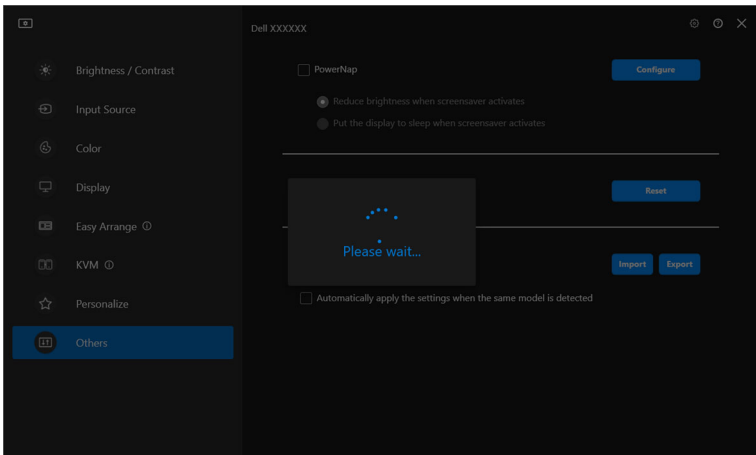
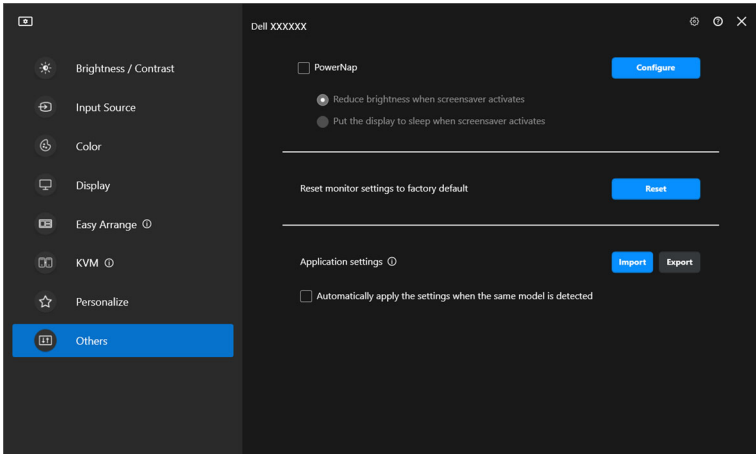
Click **Reset** to reset all monitor settings under **Others** menu.

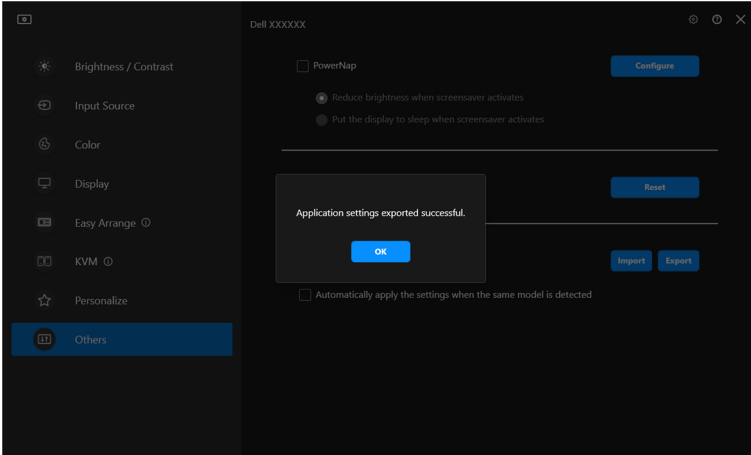


Import/Export application settings

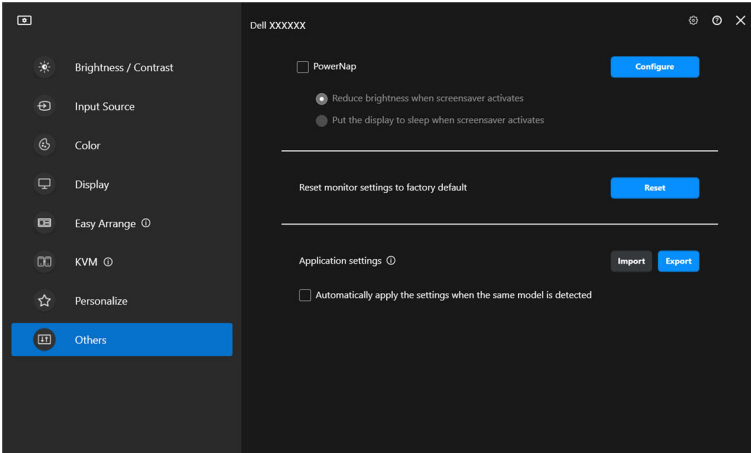
You can use this function to export the monitor settings from one monitor and import into another monitor of the same model.

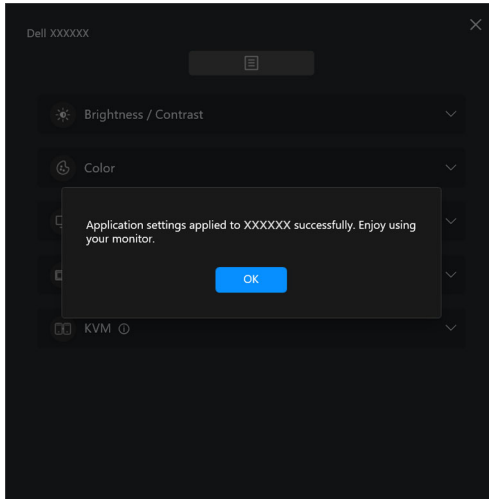
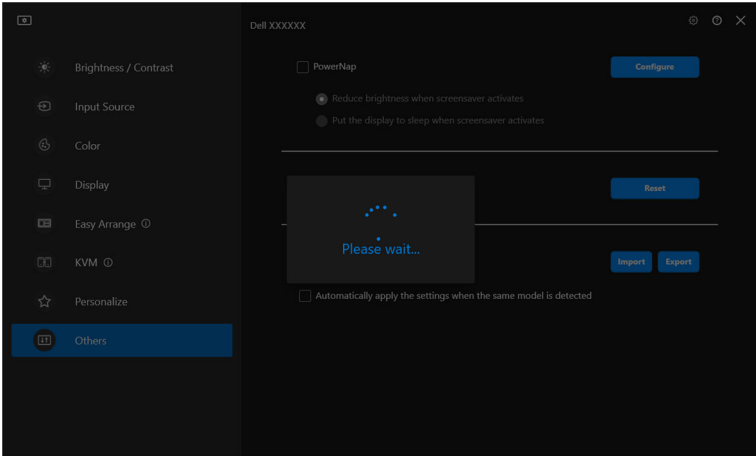
1. Click **Export** to store a copy of the application and monitor settings of selected monitor to a file, and click **OK** when export is successful.



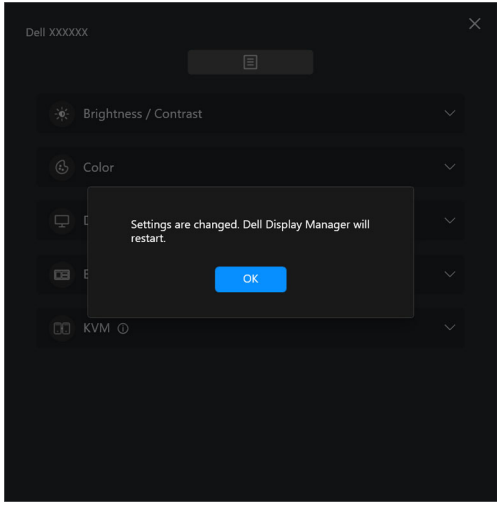


2. To import the settings from a previously exported file, click **Import** and select the file. The monitor settings will be applied to all of the connected displays of the same model.



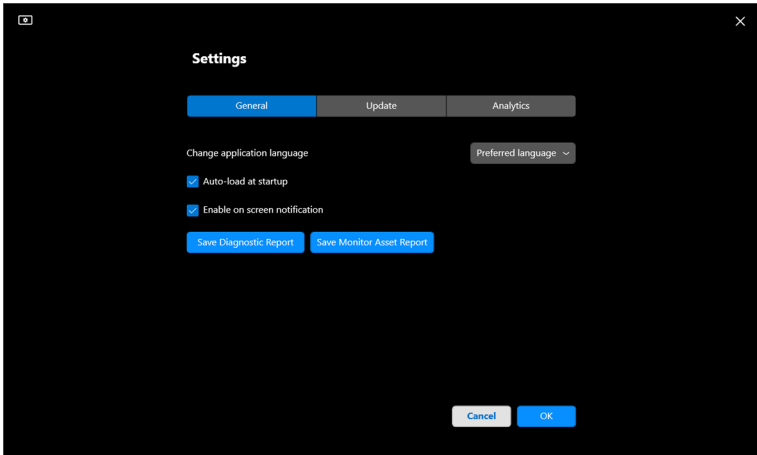
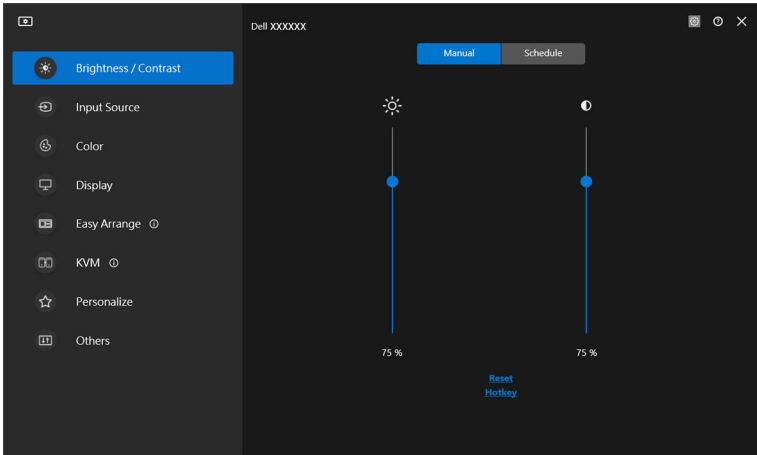


3. DDM will restart after the file is imported.



Additional settings

There are additional DDM settings available under **Settings**. Click **Settings** icon to make setting adjustments.

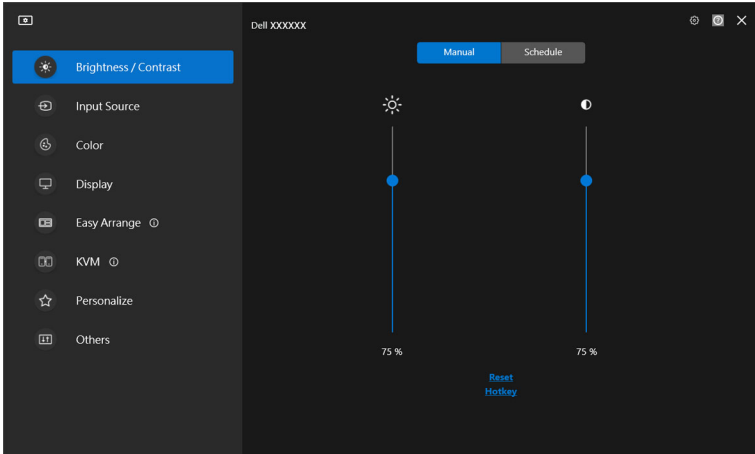


Feature	Function	Description
General	Change application language	Apply preferred language to DDM. The default preferred language is the first language on the preferred language list, which follows the Windows language configuration.
	Auto-load at startup	Launch DDM when the computer starts up.
	Enable on screen notification	Allow DDM to show notification message.
	Save diagnostic report	Click Save Diagnostic Report to save the diagnostic report. The report contains system and monitor related information along with DDM runtime logs.
	Save monitor asset report	Click Save Monitor Asset Report to save monitor asset report. The report contains monitor Extended Display Identification Data (EDID) information for all connected monitors.

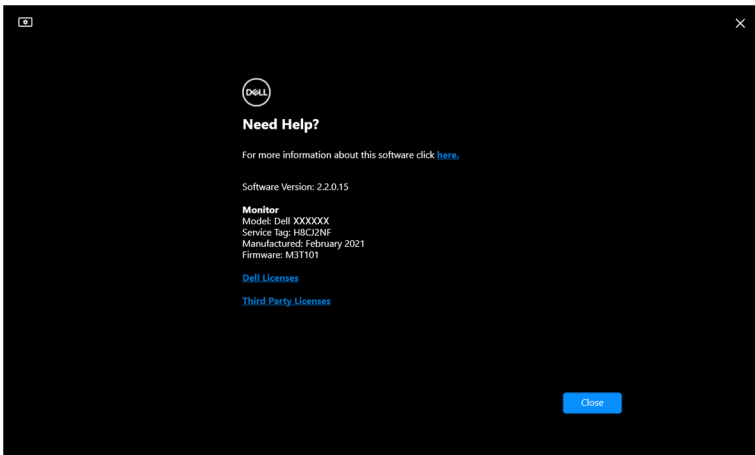


Help

There are additional software and monitor information available in **Help**. Click the “?” icon to access the **Help** screen.






You can obtain software information by clicking **here**. You can also obtain model name, service tag, manufactured date, and firmware information of the monitor. Click **Close** to exit the **Help** screen.

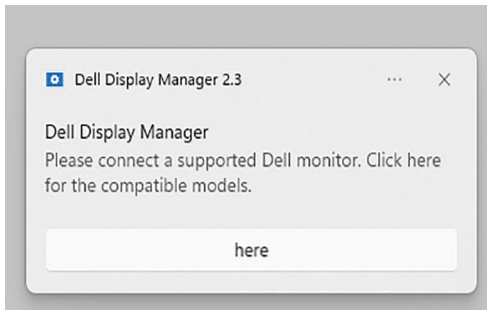



Troubleshooting

Understand the different states of DDM

Feature	Function	Description
DDM icon	Searching 	Searching for the supported monitors.
	Connected 	The supported monitors are connected. NOTE: You can right click to refresh if your supported monitor is not listed in the DDM drop-down menu.
	Unable to connect 	Either there are no supported monitors connected or there is communication error in connecting your monitor. See reasons for unable to detect monitor in the section below.

If DDM does not work on your monitor, you will see the following icon and message in the status menu.



 **NOTE:** DDM works only on selected Dell-branded monitors and is not supported on the monitors from other manufacturers.



Dell monitors not supported by DDM

DDM may not work with the following monitors:

- Dell monitor models not included in DDM for Windows supported list. For more information, see <https://www.dell.com/support/ddm>
- Monitors not listed in DDM for Windows support list. Virtual and wireless monitors do not support DDC/CI

Unable to detect supported Dell monitor

In the following scenarios, Dell Display Manager might not be able to communicate with the monitor.

1. The primary monitor has turned on Multi-Monitor Sync (MMS).
2. The monitor is busy with color calibration.
3. The monitor has **Screen Partition** turned on.
4. DDC/CI is turned off.

If DDM cannot identify or establish communication with a compatible Dell monitor, follow these steps to troubleshoot:

1. Make sure the video cable or USB upstream cable is properly connected to your monitor and your computer. Ensure all the connectors are correctly connected to the ports.
2. Check the monitor OSD to ensure **DDC/CI** is enabled.

Unable to connect to Network KVM

If you encounter difficulty connecting to a remote computer through **Network KVM**, follow these troubleshooting steps:

1. Verify the firewall settings and confirm that all Dell Display Manager items are enabled.
2. Ensure that all applications permitted to communicate through Windows Defender Firewall are selected.
3. Reach out to your network administrator and confirm that all network ports (default 5566, 5567, 5568) are open for both inbound and outbound communication.



Network KVM switches to another cluster

Network KVM unexpectedly switches to another cluster during normal use. This is because **Network KVM** binds the connected monitor to a cluster when:

- user creates a cluster.
- user selects a cluster.

For optimum usage, **Network KVM** attempts to resume connection with the cluster that has the highest priority. If connection fails, **Network KVM** goes down in order and attempts to connect with another cluster. When this happens, you can manually select the cluster you wish to use from the KVM menu.

Compatibility between application installed on your system

DDM is backward compatible with previous version. Recommended to always use the latest DDM version.

Getting more information about troubleshooting

You can **Save Diagnostic Report** or **Save Monitor Asset Report** to provide more information to Dell service center for troubleshooting.

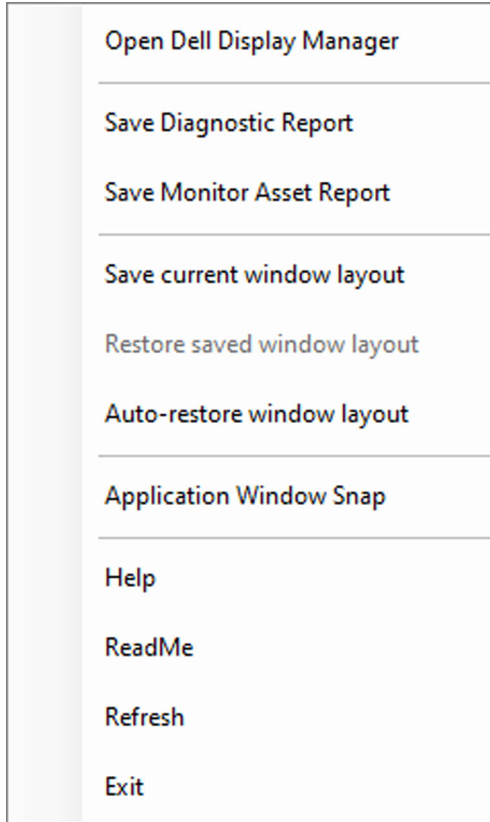
Save Diagnostic Report

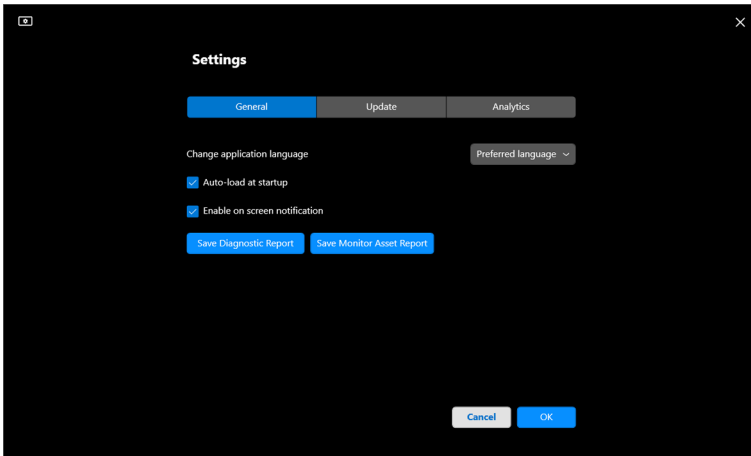
Right click DDM icon and select **Save Diagnostic Report** or click the **Save Diagnostic Report** button from **Settings**. The report contains system and monitor related information along with DDM runtime logs.



Save Monitor Asset Report

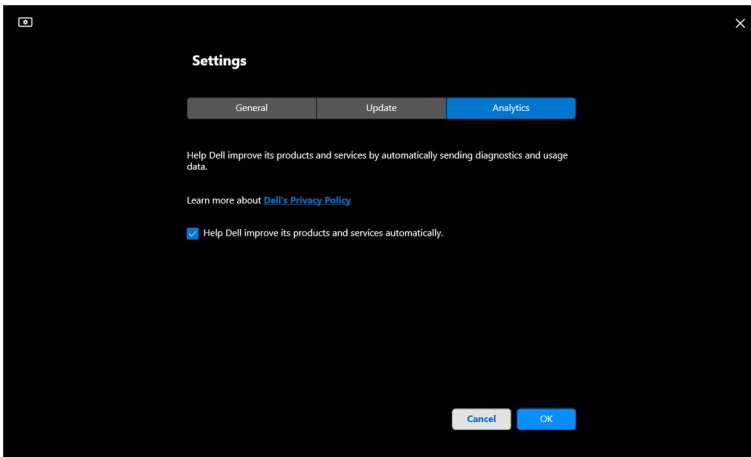
Right click DDM icon and select **Save Monitor Asset Report** or click the **Save Monitor Asset Report** button from **Settings**. The report contains monitor Extended Display Identification Data (EDID) information for all connected monitors.





Improve DDM

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 helps to improve Dell products and services.

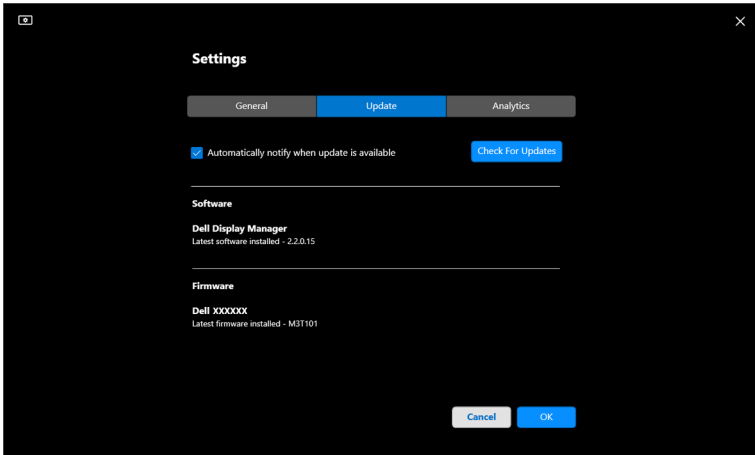


Updating DDM software and monitor firmware

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

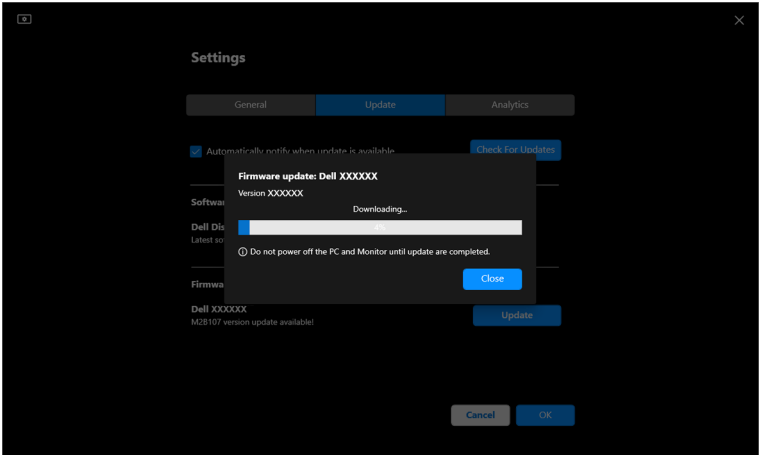
Click **Update** in **Settings** to update the DDM software or monitor firmware.

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

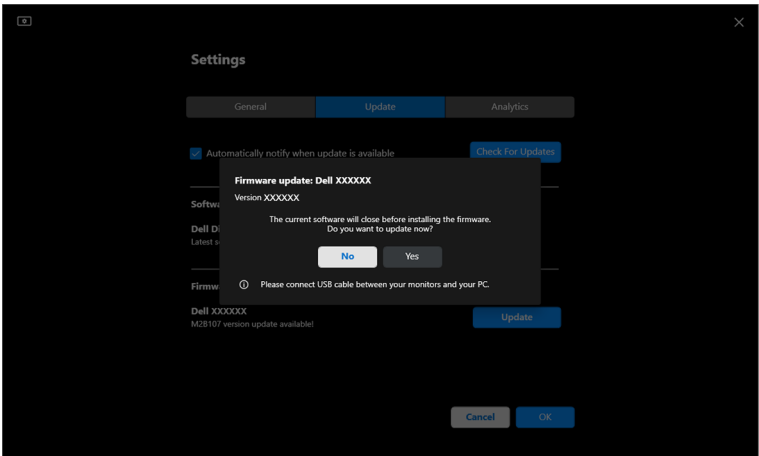


Updating the monitor firmware

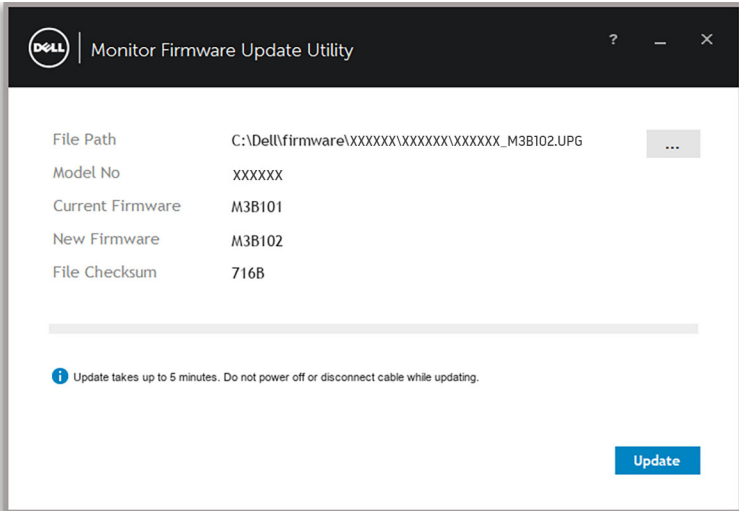
1. Click **Update** in **Settings** to update monitor firmware. The download progress bar will appear once the process begins.



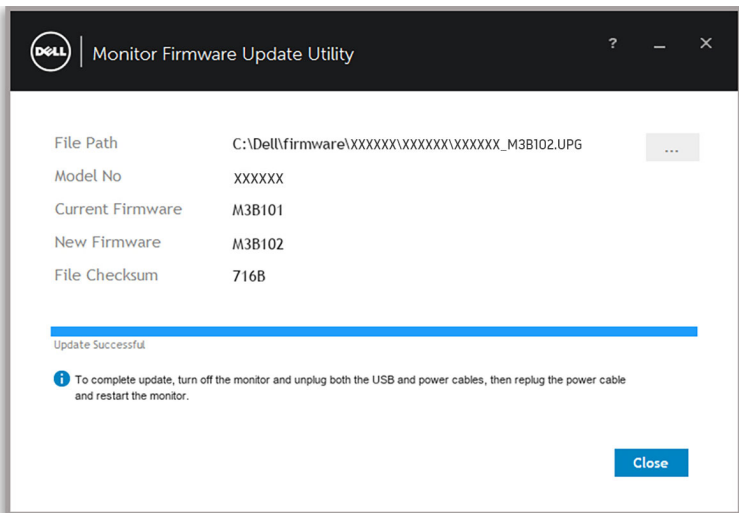
2. After download is complete, a dialog box appears to prompt for confirmation. Follow the on-screen instruction to disconnect all other monitors before clicking **Yes**.



3. The **DDM** will be temporarily unavailable, and **Monitor Firmware Update Utility** will appear and start to update automatically.




4. After update is complete, the **Monitor Firmware Update Utility** will close automatically.



 **NOTE:** The **Monitor Firmware Update Utility** will update all monitors with the same model in order.



 **NOTE:** DDM will launch automatically after monitor firmware update is complete.

