Samsung Display Manager

User Manual

Samsung Display Manager is a program for easy, integrative control of a wide range of monitor functions.

Screen settings, split screen, smart monitor control, multi-monitor color match, firmware update, and many other functions can all be controlled with Samsung Display Manager.

Even in complex environments where multiple monitors are used, Samsung Display Manager provides work efficiency through custom user settings.

SAMSUNG

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1 Overview of Samsung Display Manager

1-1 About Samsung Display Manager

Samsung Display Manager is an integrative monitor control program. It allows control of a wide range of functions, including basic picture settings, split screen, smart monitor control, color match, input change, KVM, and firmware update.

Samsung Display Manager makes the use of multiple monitors convenient, and supports all Samsung monitors, including smart monitors.

Key features

To use the functions, they must be supported by the monitor in use.

Split Screen and Fit Window Automatically

- A screen can be split into 2 to 6 vertically or horizontally. Drag and drop an app window to fit it automatically.
- The user can adjust split screen resolutions. A quick split guide is displayed when windows are moved to enable intuitive use.

Smart Monitor Control

- Samsung smart monitors on the same network can be automatically detected and connected.
- Mouse control can be switched between the PC and a smart monitor simply by moving the cursor to the edge of the screen. Source change, return to Home, and volume adjustment do not require a remote control.

The below functions are available on Samsung regular monitors only.

Game and Picture Mode Setup

- Picture mode can be set for different apps. Options such as virtual aim point, response time, and lighting effects are available to complement gaming.

Color Match

- When multiple Samsung monitors are used, the color settings of the reference monitor can be applied to other monitors for color quality consistency.

PIP/PBP Display

- This function displays two sources on the screen simultaneously. One source can be displayed on the main screen and the other on the sub-screen (Picture-in-Picture), or the screen can be split to display the sources side by side (Picture-by-Picture).

Other Functions

- Firmware update: The user can manually select and update a firmware file.
- MAPT: With monitors equipped with an Ethernet port, a monitor MAC address can be changed to a PC MAC address to optimize network connection.
- Import/export monitor setup: A monitor setup can be saved as a file for easy import and export.
- Prevent OLED burn-in: Automatically reduces the brightness of permanent parts of the screen, such as the taskbar, to prevent OLED burn-in from extended use.

1-2 User Requirements

Operating System

- **Windows 10 (32/64 bit)**, **Windows 11**, or **macOS 12.0** or higher is required. This user manual is written for **Windows 10**.

Monitor

- Samsung regular monitors released in 2023 and later (DDC-CI and firmware update functions required)
- Samsung smart monitors

Languages

- Deutsch, English, Español, Français, Italiano, Magyar, Polski, Português, Русский, Svenska, Türkçe, 日本語, 한국어, 简体中文, Українська

Supplier's Website

- Homepage: www.samsung.com

Requirements

- .Net Framework 4.8 must be installed to use SDM.

1-3 Open Source License

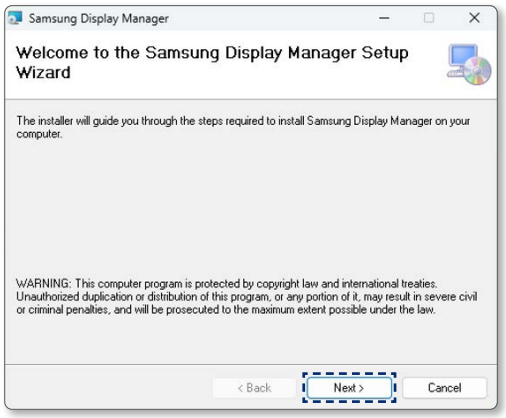
Open sources used by this software can be checked in the link below. (https://opensource.samsung.com)

2 Installing/Uninstalling Samsung Display Manager

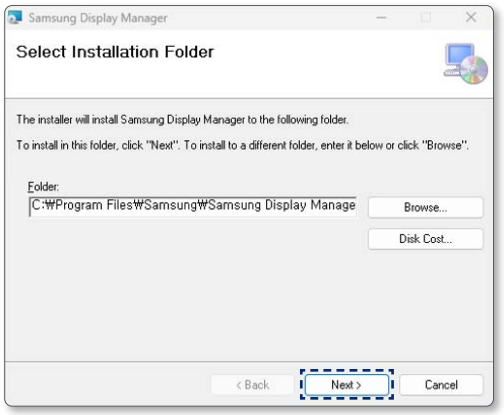
2-1 Installing Samsung Display Manager

1 Double-click the **Samsung Display Manager** installation file.

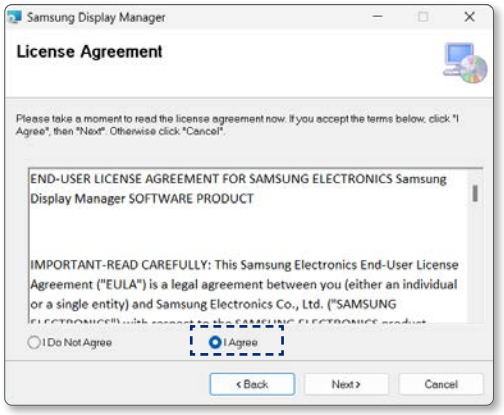
2 Click **Next** in the displayed Setup Wizard window.



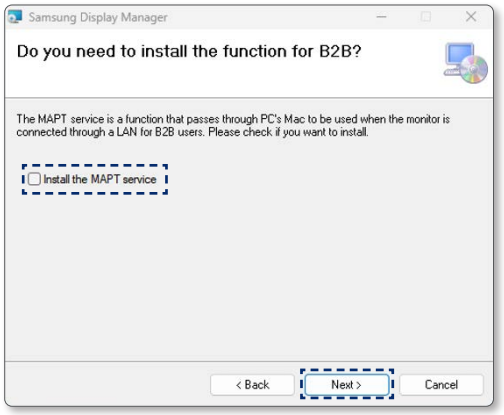
3 Specify the folder to install the program and click **Next**.



4 Select "**I Agree**" and click **Next**.

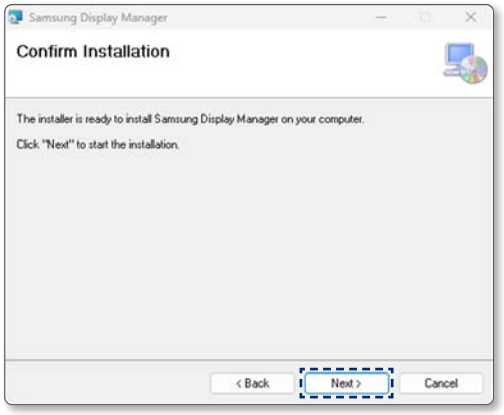


5 To use the MAPT service (a function which forwards a PC's MAC address to allow a B2B user to connect a monitor by LAN), enable **Install the MAPT service** and click **Next**.
If the MAPT service is not needed, click **Next** without enabling the function.

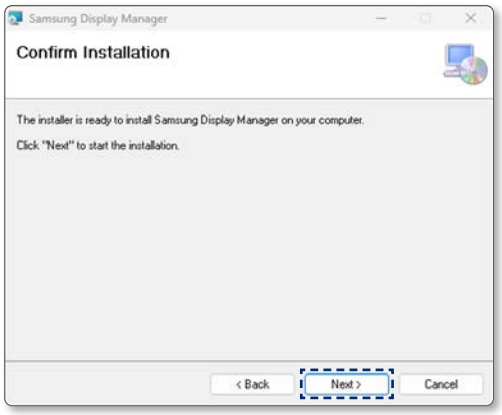


- For more information about the MAPT function, see Changing a Monitor's MAC Address to a PC's MAC Address.

6 Click **Next**.



7 Click **Close** to complete the installation.



8 On completion of installation, the **Samsung Display Manager** execution icon is shown on the desktop. To start the program, double-click the icon.



2-2 Uninstalling Samsung Display Manager

If trouble is encountered with the installed program, quit **Samsung Display Manager** and delete the program as follows.

1 Select **Start** → **Settings** → **Apps**, and find **Samsung Display Manager** under **Apps and features**.

2 Click **Samsung Display Manager**, then click **Uninstall**. Click **Yes** to start program uninstall.

3 Running/Quitting Samsung Display Manager

3-1 Running the Samsung Display Manager

Double-click the **Samsung Display Manager** icon on the desktop, or click the **Start** button and select **Samsung Display Manager** on the list of installed apps.

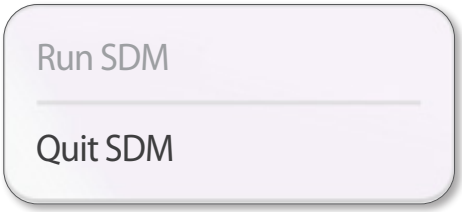
Samsung Display Manager (SDM) is executed, the monitors in use are automatically detected, and a number is displayed at the centers of the connected monitors.

3-2 Minimizing to the System Tray

Clicking the  icon on the SDM window minimizes the SDM app to the system tray without quitting the app.

3-3 Quitting the Samsung Display Manager

Right-click the SDM icon ( ) in the system tray (notification area), and click **Quit SDM**.



4 The Functions

4-1 Types of Connected Monitors and Available Functions

SDM can detect and connect up to 4 monitors. The functions available depend on the type of connected monitors.

Refer to the table below.

Type of connected monitor	Available functions
Samsung smart monitors	Floating Menu, Split Screen
Samsung regular monitors	Floating Menu, Split Screen, Picture Setup, Game, KVM, PIP/PBP (PIP/PBP), General
Other manufacturers' monitors	Split Screen only

4-2 Controlling Samsung Smart Monitors

User Requirements

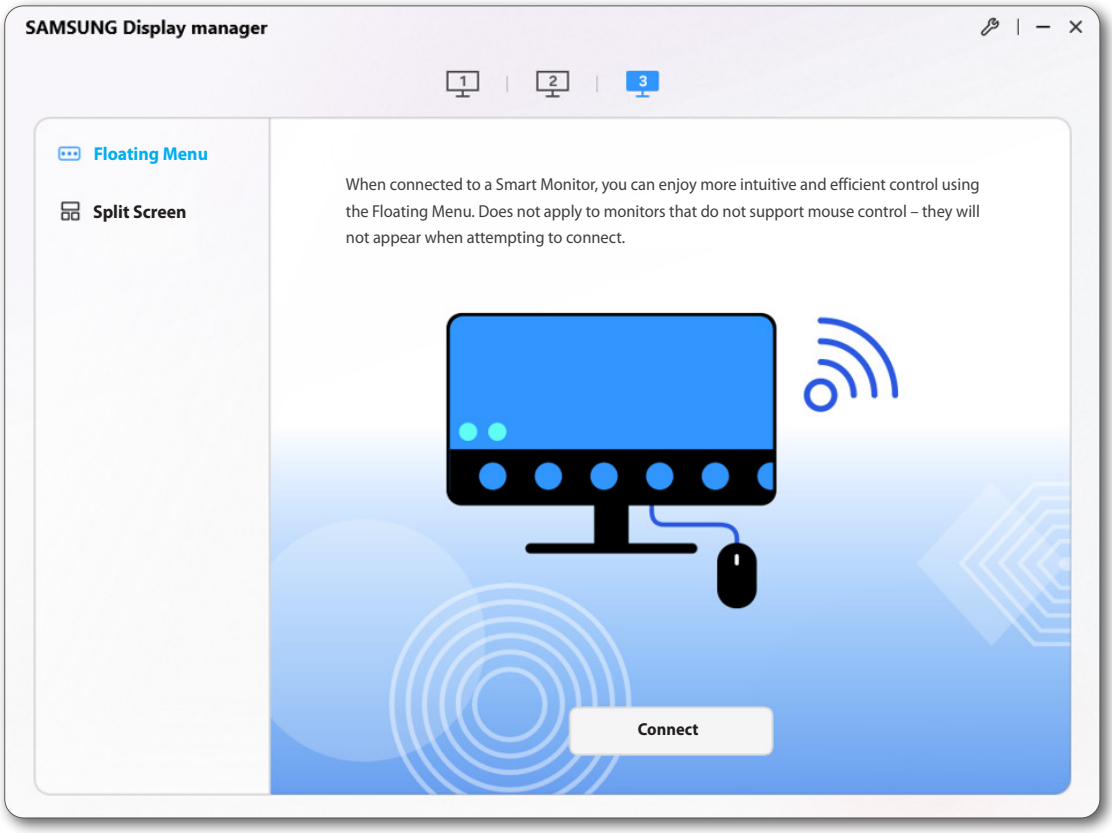
- A smart monitor that supports mouse control must be added to SDM.
- Ensure that at least one smart monitor is in use.
- The smart monitor and the SDM-installed PC must be connected on the same wireless network.
- To use multiple PCs, install SDM on each PC.
- First, connect a USB mouse to the smart monitor. Then, connect the smart monitor to the PC by a USB-B or USB-C cable. Now, select the source on the smart monitor.
- This feature only supports USB input devices and does not support Bluetooth input devices.
- This feature may not be supported on some smart monitors.

Registering a smart monitor and configuring its settings

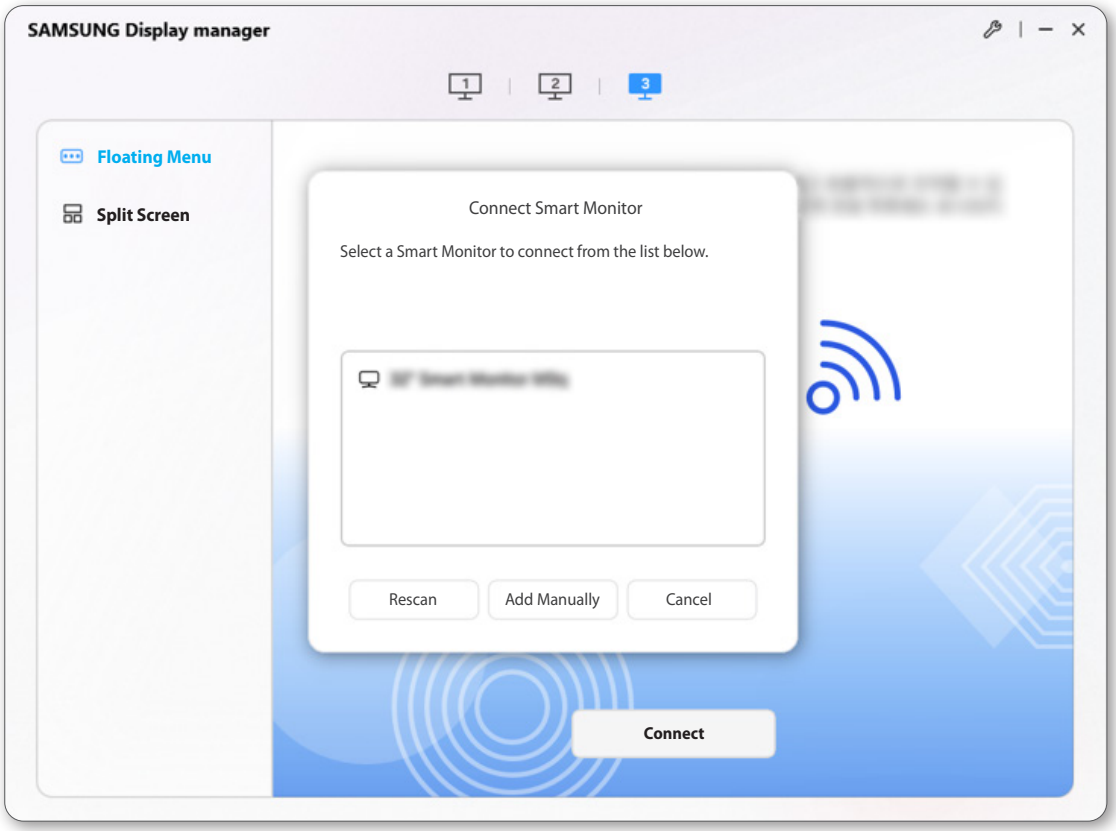
1 Run SDM. SDM automatically detects connected monitors and assigns numbers to the monitors.

2 On the SDM screen, click the number of the smart monitor to add.

3 Click **Connect**. SDM scans for nearby smart monitors.



4 Select the smart monitors to connect from the list of found devices.

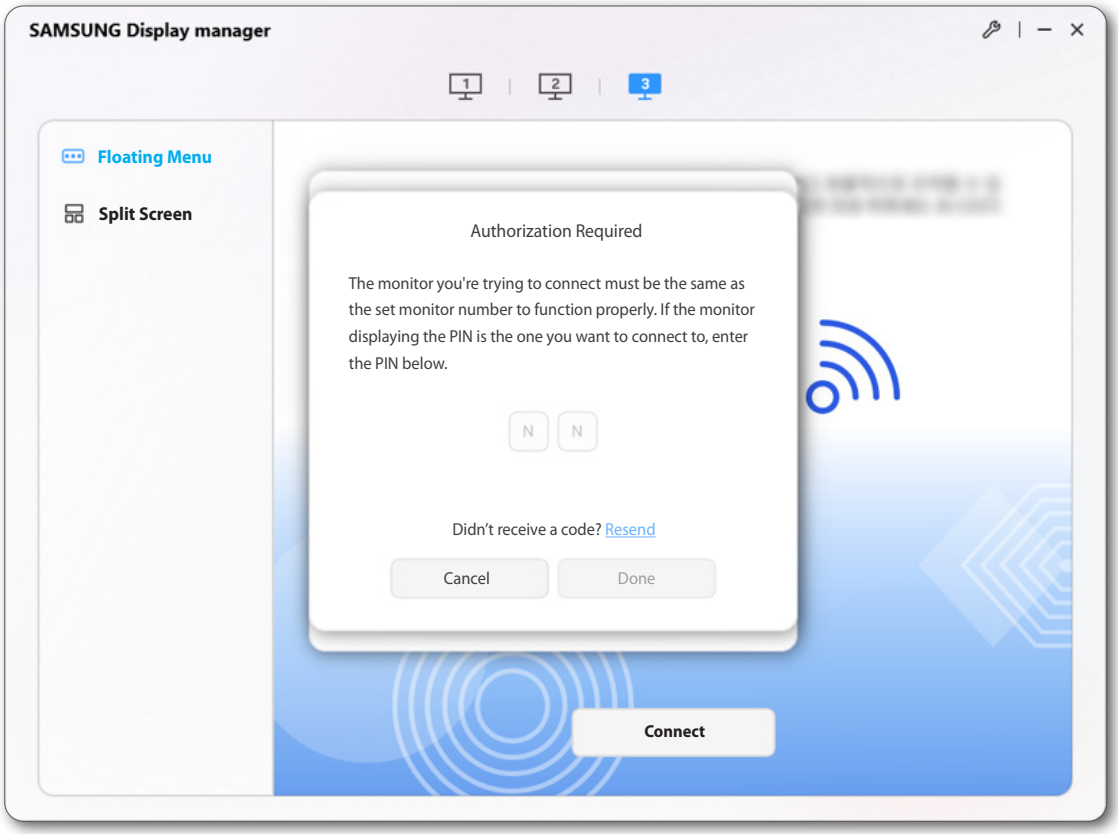


Note

- If smart monitors are not found, click **Rescan** or **Add Manually** and try connecting the smart monitors.
- Smart monitor search may not work well if the Network discovery feature is turned off on the computer. Check that the below setting is enabled on the PC.
  (**Settings** > **Network & Internet** > **Advanced network settings** > **Network and Sharing Center** > **Change advanced sharing settings** > **Turn on network discovery**)

5 Enter the PIN displayed on the smart monitor to connect on the Authorization Required window.

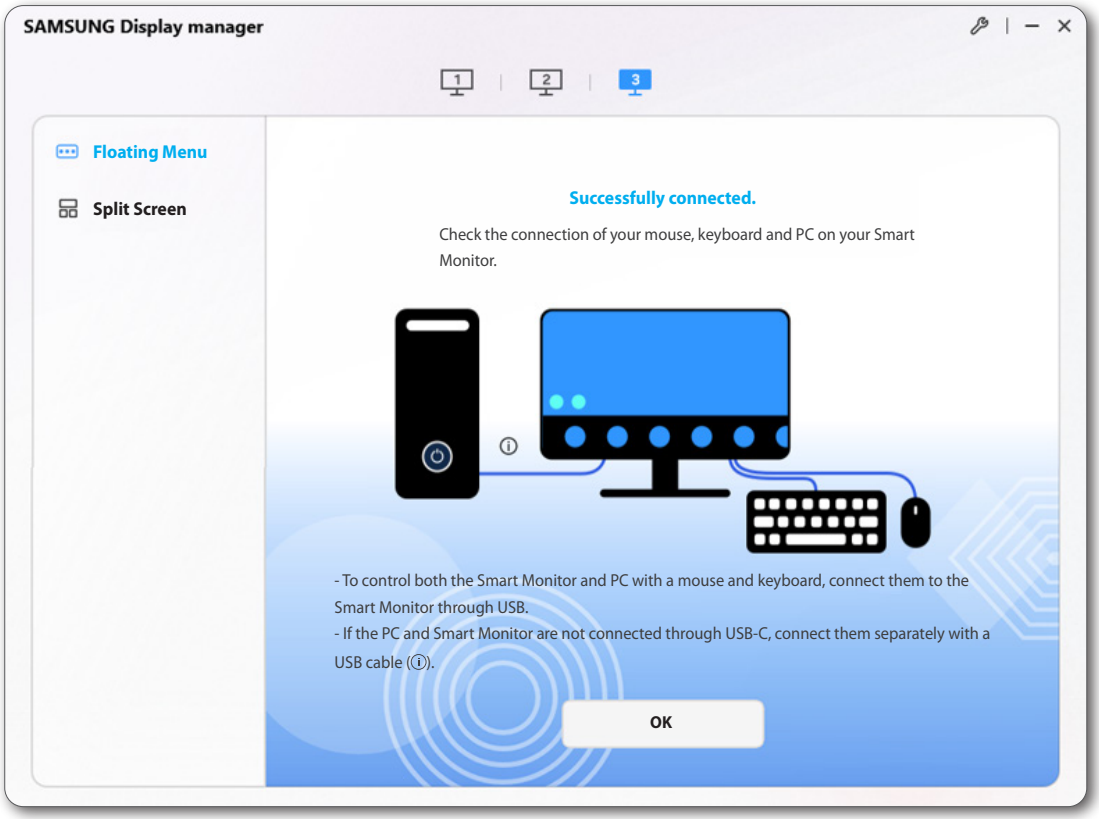
6 Click **Done**.



Note

- PIN may not appear on some models.

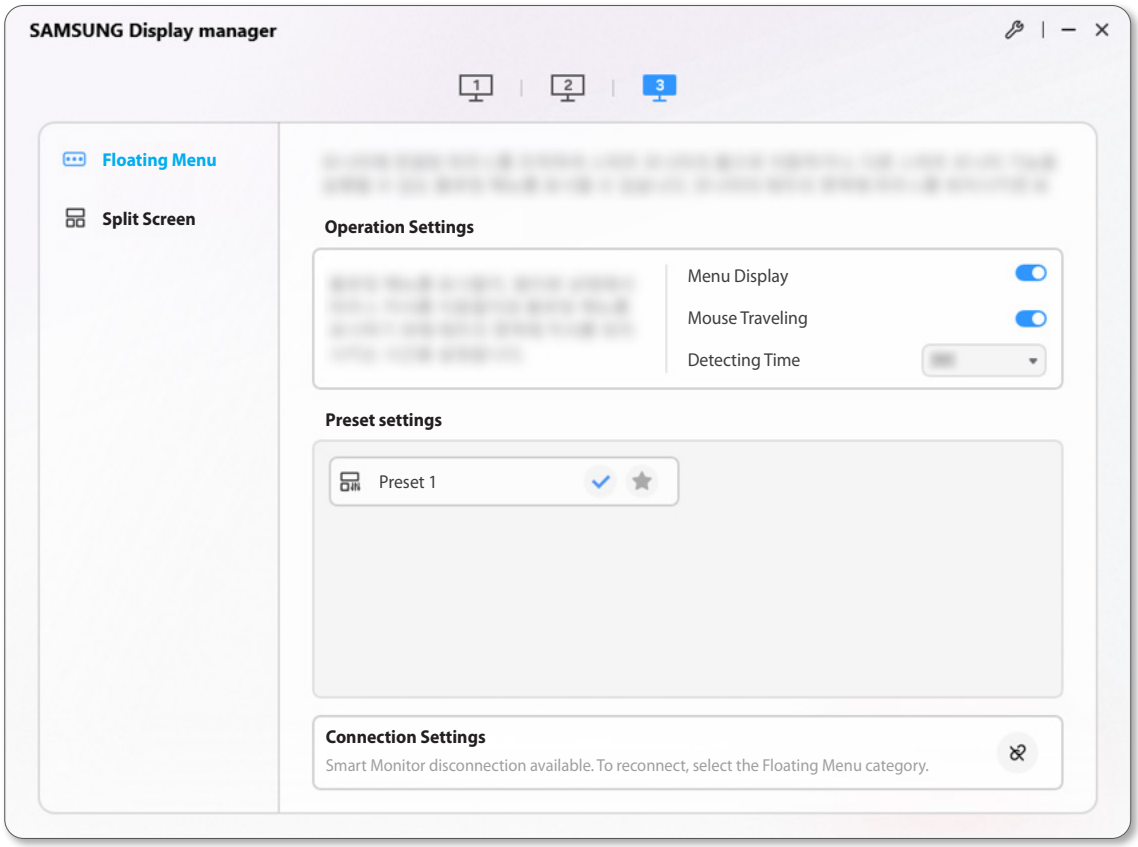
7 Smart monitor registration is complete.



Disconnecting Smart Monitors

1 Select the smart monitor to disconnect from SDM.

2 Select **Floating Menu** on the left panel, and click the icon in **Connection Settings**. The smart monitor is disconnected.



Note

- To reconnect a disconnected smart monitor, add it to SDM again. See Registering a smart monitor and configuring its settings on how to add smart monitors to SDM.

Controlling the smart monitor mouse

When only one source is used

1 Leave the mouse pointer on the border of the screen for a specified amount of time.

2 Menus appear after the specified period of time elapses.

Note

- The menus may appear differently from the screenshots, depending on the model.



1 Home

2 Connected Devices

3 All Settings

4 Volume

5 Game Bar

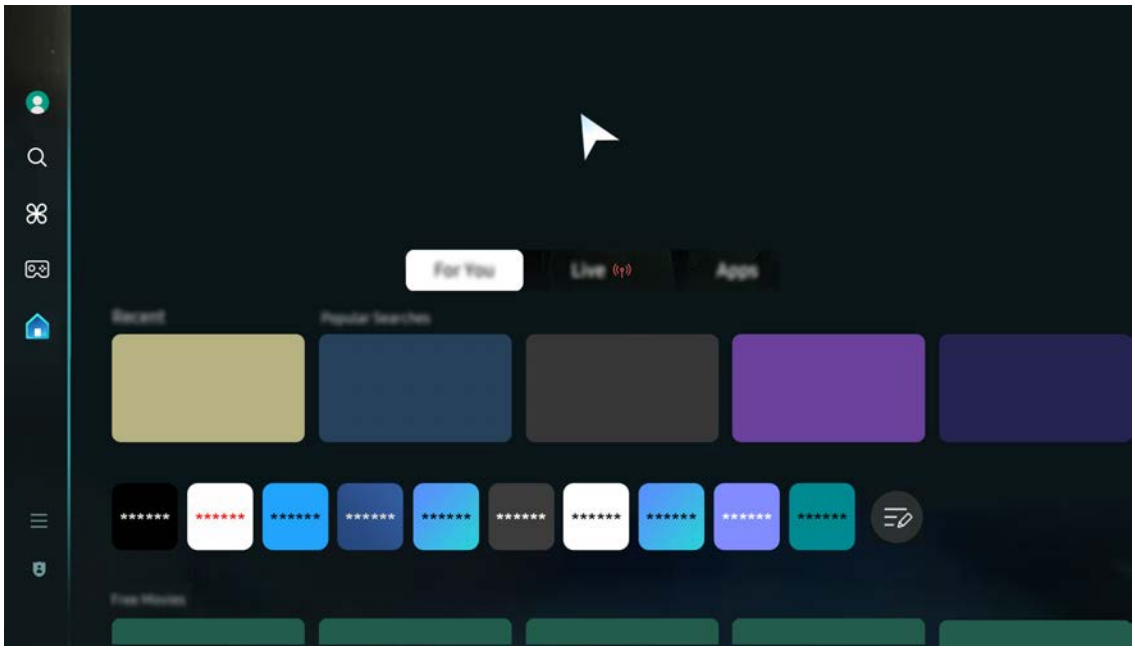
6 User Add-ons

Note

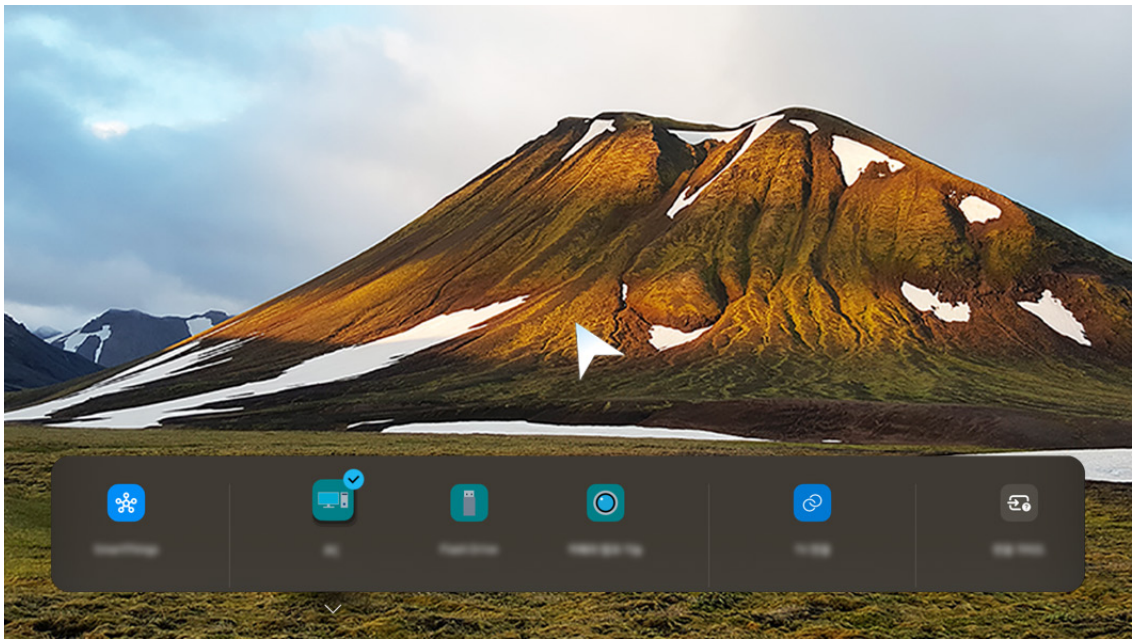
- Displayed user add-ons are functions set in **Preset settings**. To learn about the **Preset** function, see Preset Settings.

7 Edit

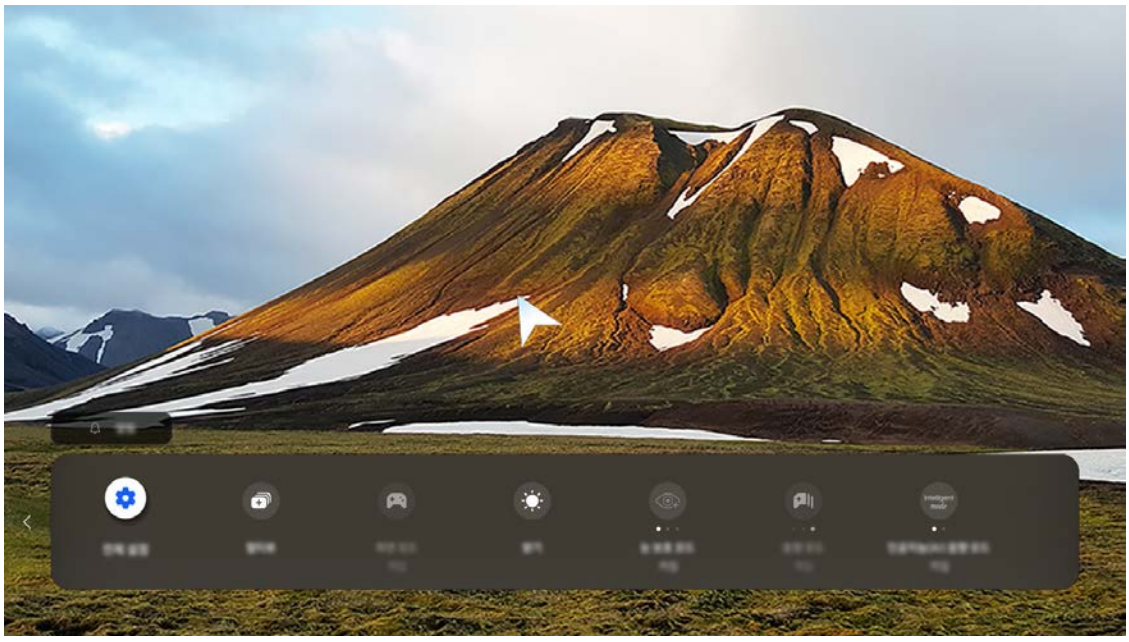
3 Select the **Home** icon on the menu to directly access the **Home** screen of the connected monitor. The mouse switches to the smart monitor.



4 Select the **Connected Devices** icon on the menu to directly access the **Connected Devices** of the connected monitor.



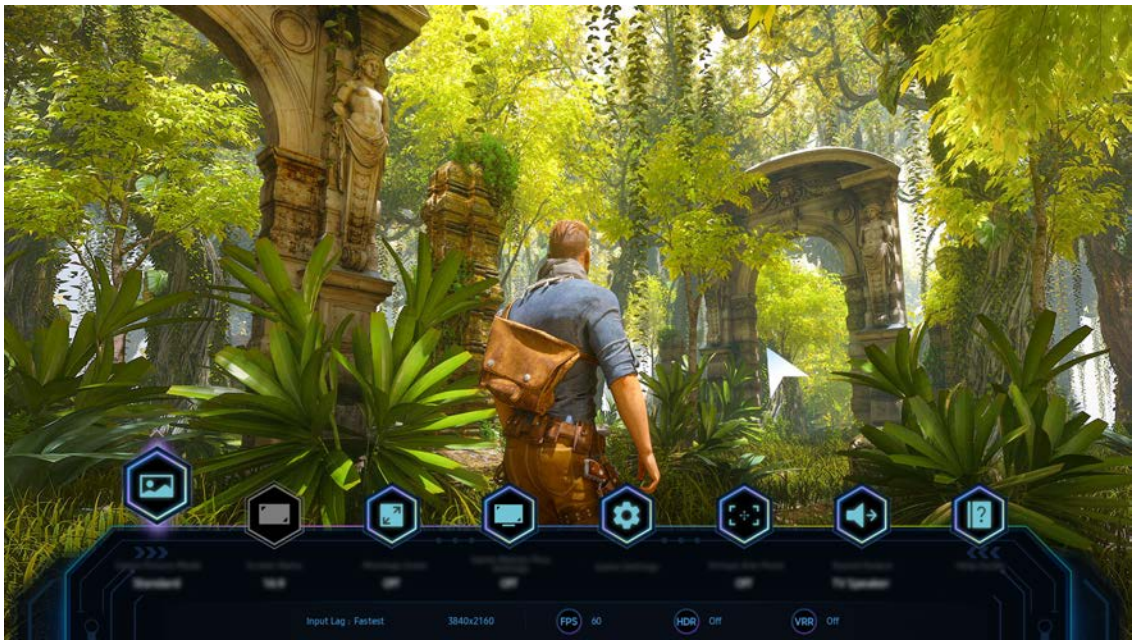
5 Select the **All Settings** icon on the menu to directly access the **All Settings** screen of the connected monitor.



6 Select the **Volume** icon on the menu to directly adjust the **Volume** of the connected monitor.



7 Select the **Game Bar** icon on the menu to directly access the **Game Bar** of the connected monitor. To use this function, **Game Mode** must be enabled in the monitor settings.

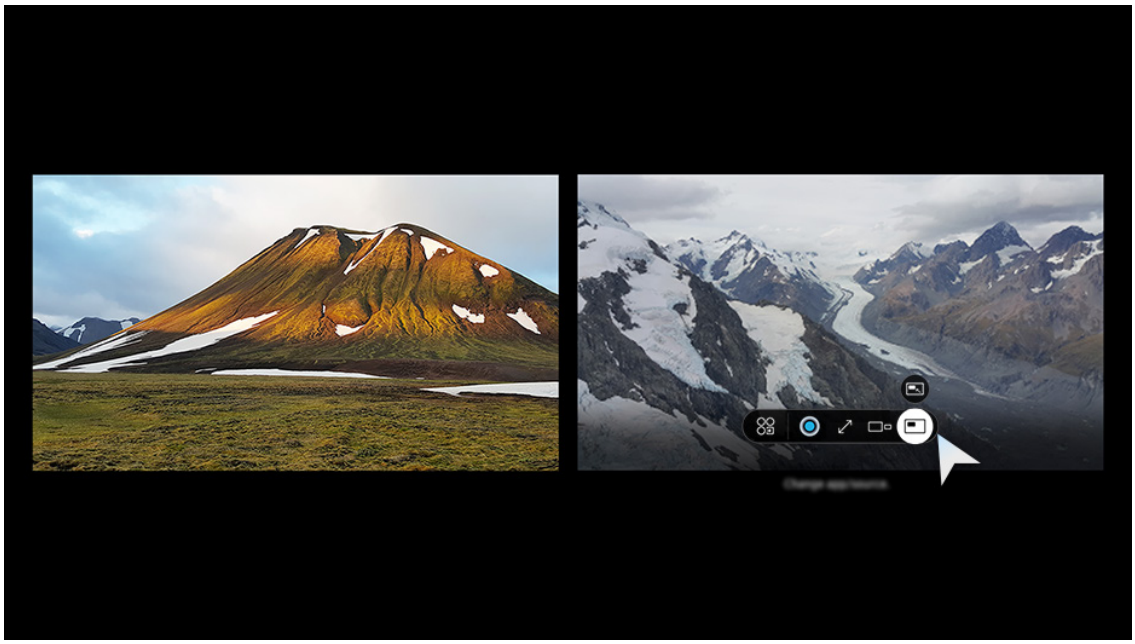


8 Selecting the User Add-on button on the menu displays the Floating Menu functions set on the Preset.

When multiple sources are used

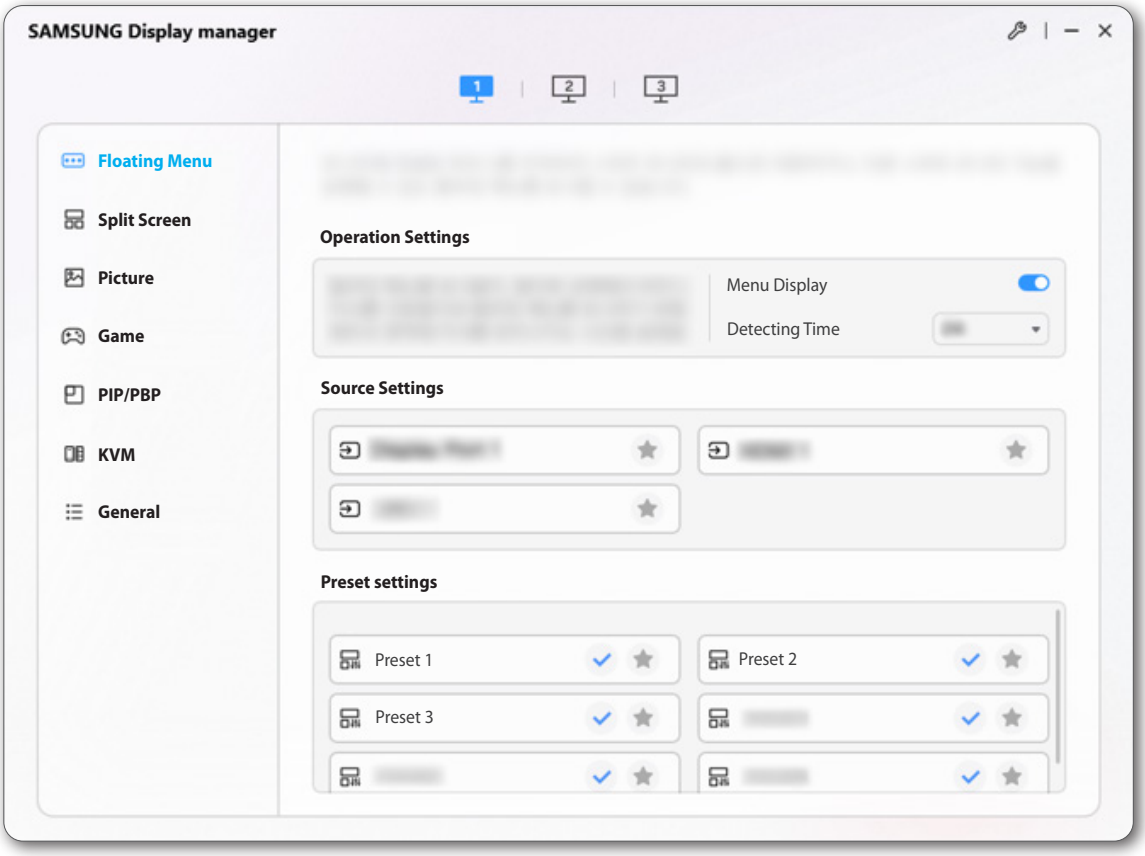
1 Leave the mouse pointer on the border of the screen for a specified amount of time.

2 The mouse connection switches to the smart monitor after a specified amount of time elapses.



4-3 Common Functions of Samsung Monitors

The below screen is displayed when SDM is run on a Samsung smart or regular monitor.



Using the Floating Menu

When a Samsung monitor is connected, moving the cursor to the edge of the screen displays the Functions menu as a popup and settings can be made. The displayed menu is a floating menu.

Use the floating menu to access the Home screens of smart monitors and control regular monitors' functions.

Keep the cursor on the edge of the screen. The floating menu is displayed. See Registering a smart monitor and configuring its settings on how to connect smart monitors to SDM.

Note

- This function only works with Samsung monitors.
- With Samsung regular monitors, this function can be used without making any settings.
- How the menu appears and is used varies by monitor type.
  - Samsung smart monitors: The **Home** screen can be accessed, sources can be selected, and the floating menu can be used to control smart monitors instead of the remote control.
  - Samsung regular monitors: Sources can be selected, and **Preset** functions can be set.

Operation Settings

Menu Display	Use the switch to display or hide the floating menu. The floating menu displayed can vary by connected monitor type.
Mouse Traveling	This function is supported by smart monitors only. When controlling the PC in multi-view on a smart monitor, move the cursor to the edge of the screen to switch between monitors. Use the switch to enable or disable this function.
Detecting Time	Set the minimum time for recognizing the cursor placed on the screen edge.

Displaying the Floating Menu

1 Run SDM.

2 Select **Floating Menu** on the menu panel on the left, and enable the **Menu Display** switch.

3 Place and keep the cursor on the edge of the screen for the detecting time set by the user to display the floating menu.

- Cursor on top/bottom edge of screen: Horizontal floating menu displayed
- Cursor on left/right edge of screen: Vertical floating menu displayed

Note

- When both Samsung smart and regular monitors are connected, the Floating Menu is displayed according to individual monitor settings.
- When the floating menu is displayed on a smart monitor, selecting **Home** on the displayed Floating Menu switches to **Home** mode, allowing the Home screen to be controlled by mouse.

Preset Settings

Frequently used functions can be added to the floating menu.

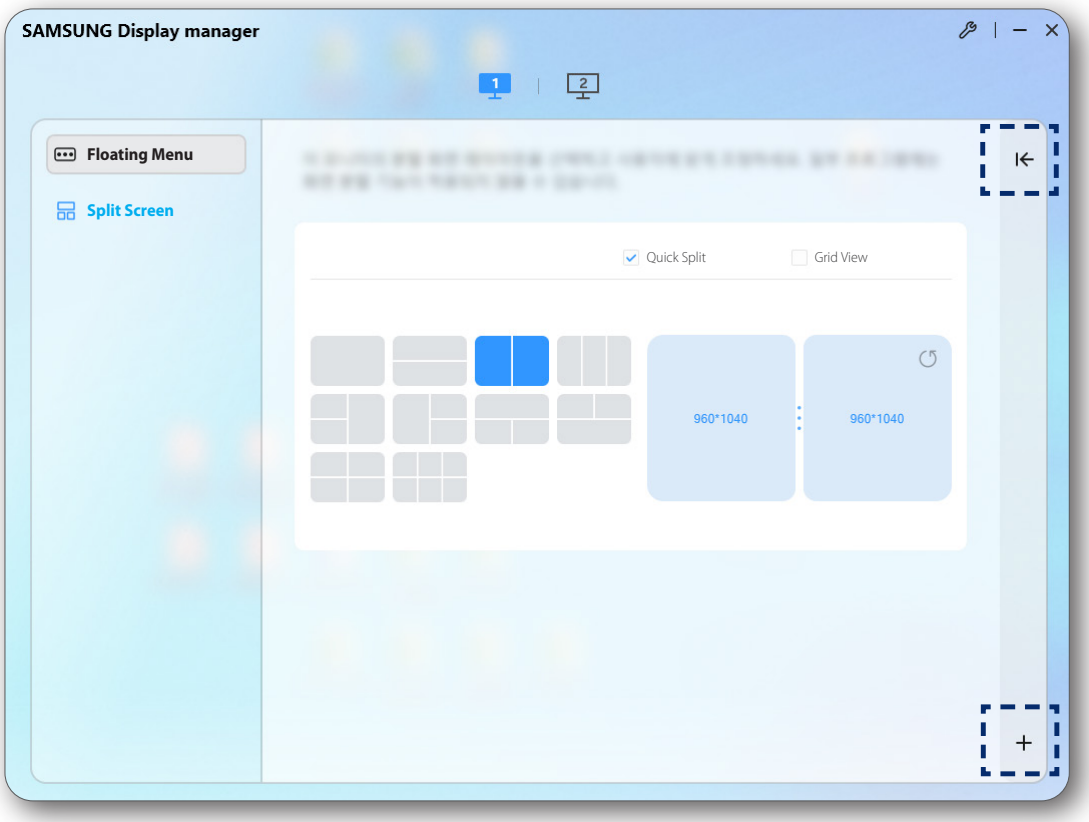
Note

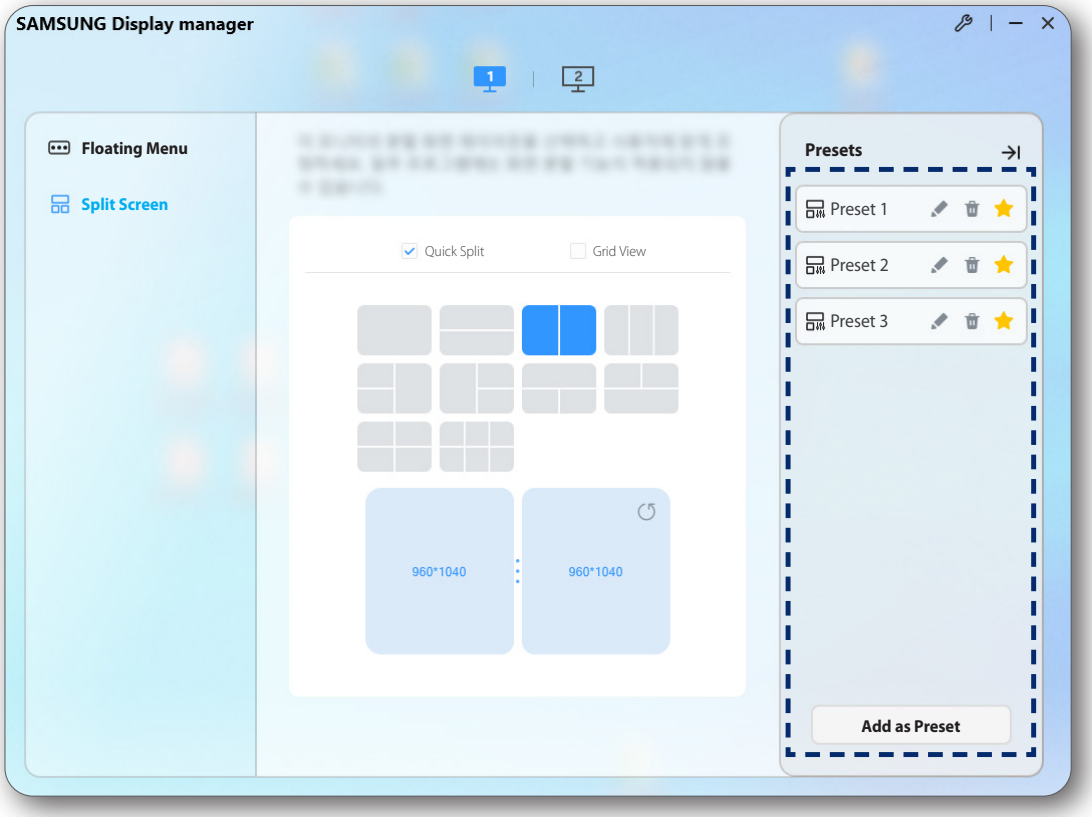
- The floating menu displayed differs for Samsung smart and regular monitors.

Preset Settings for Samsung Smart Monitors

The split screen function can be set as a preset.

1. Open SDM, and select a Samsung smart monitor.
2. On the left panel of the SDM screen, select **Split Screen**.
3. Select + (**Add as Preset**) on the Preset bar on the right to set the Split Screen function as a preset. To add 2 or more functions as presets, select |← and select **Add as Preset**. The functions are added as presets.




SAMSUNG Display manager
1
2
Floating Menu
Split Screen
Quick Split
Grid View
960*1040
960*1040
Presets
Preset 1
Preset 2
Preset 3
Add as Preset

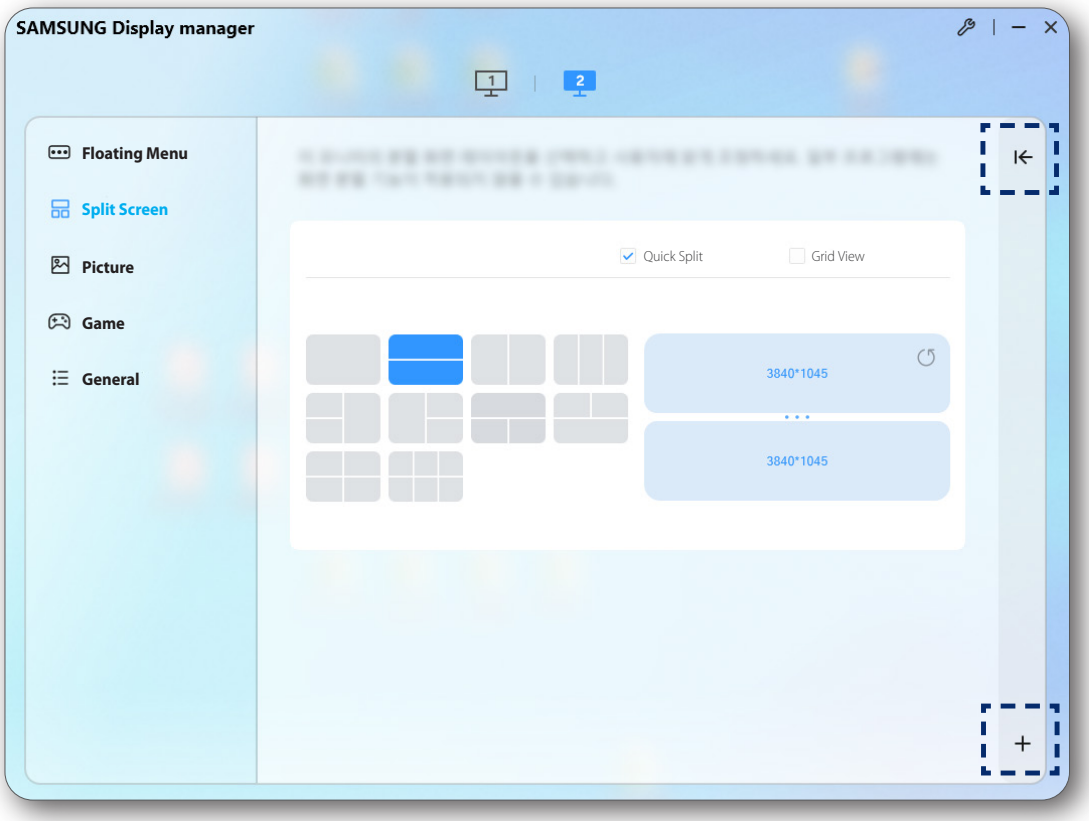
Preset Settings for Samsung Regular Monitors

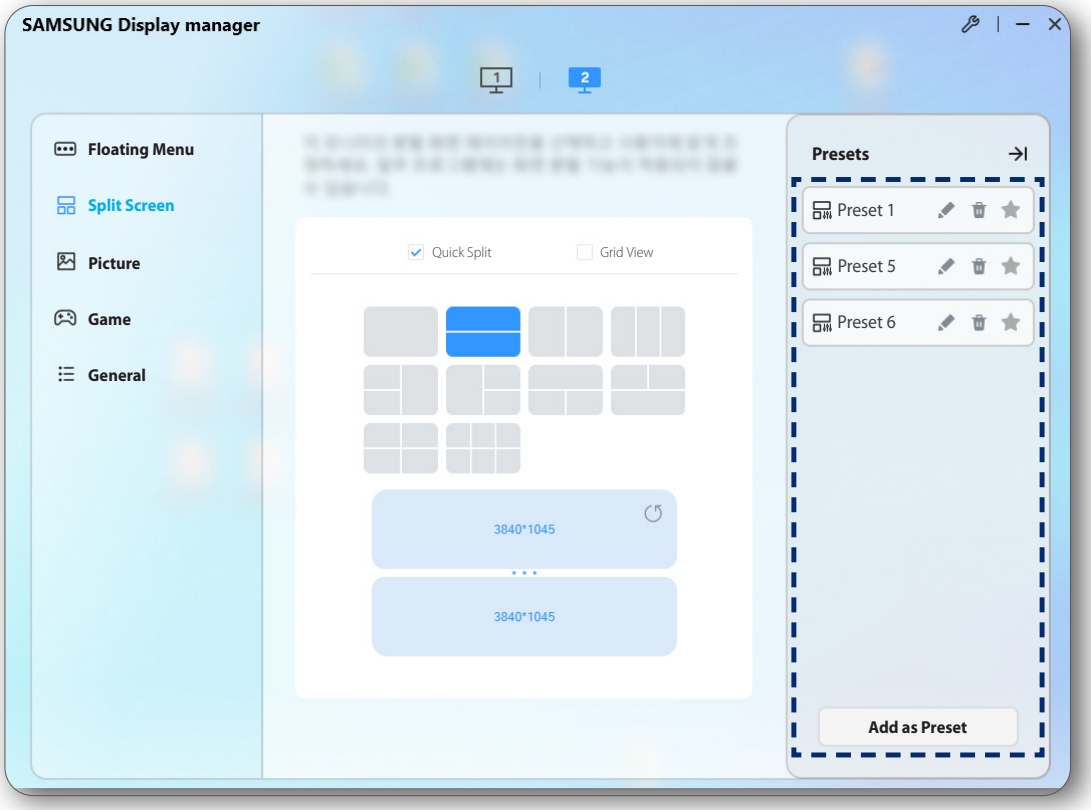
Split Screen, **Picture**, **Game**, **PIP/PBP**, and **KVM** can be set as preset functions.

1 Open SDM, and select a Samsung regular monitor.

2 On the left panel of the SDM screen, select the function to set as a preset.

3 Select + (**Add as Preset**) on the Preset bar on the right to set the Split Screen function as a preset. To add 2 or more functions as presets, select |← and select **Add as Preset**. The functions are added as presets.



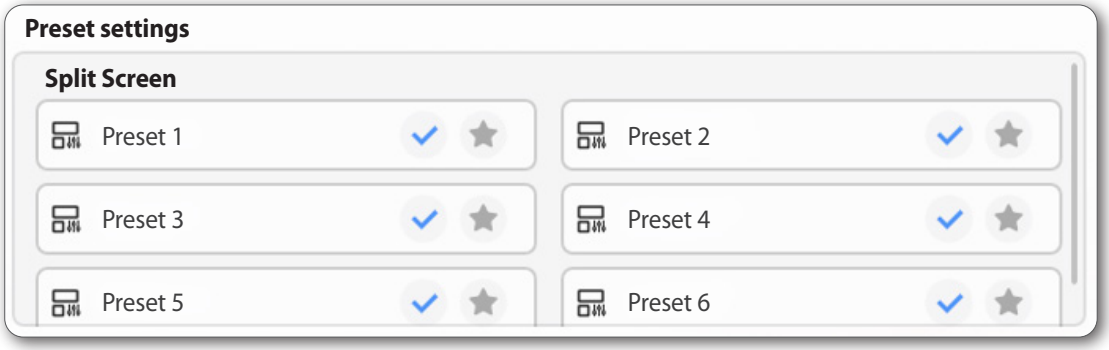

SAMSUNG Display manager
1
2
Floating Menu
Split Screen
Picture
Game
General
Quick Split
Grid View
3840*1045
3840*1045
Presets
Preset 1
Preset 5
Preset 6
Add as Preset

Adding Presets to the Floating Menu

1 Click the **Floating Menu** on the left panel in SDM.

2 View the **Preset settings** displayed on the floating menu. The added preset functions are displayed.

3 Click to the right of a preset function to change the icon to and add the preset function to the floating menu. Click to apply the preset function immediately. The applied preset function is displayed on the floating menu.



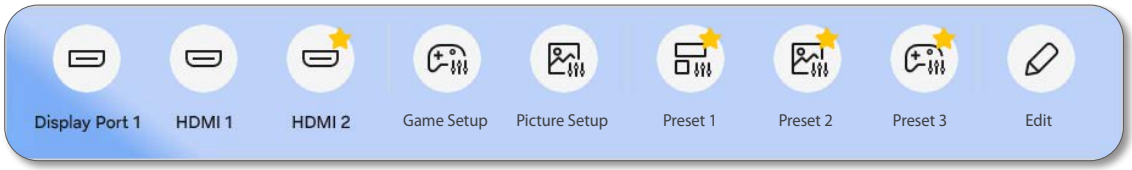
Note

- The floating menu displayed differs for Samsung smart and regular monitors.

Floating Menu for Samsung Smart Monitors



Floating Menu for Samsung Regular Monitors



Connection Settings

Disconnects smart monitors. To reconnect a disconnected smart monitor, add it to SDM again. See Registering a smart monitor and configuring its settings on how to add smart monitors to SDM.

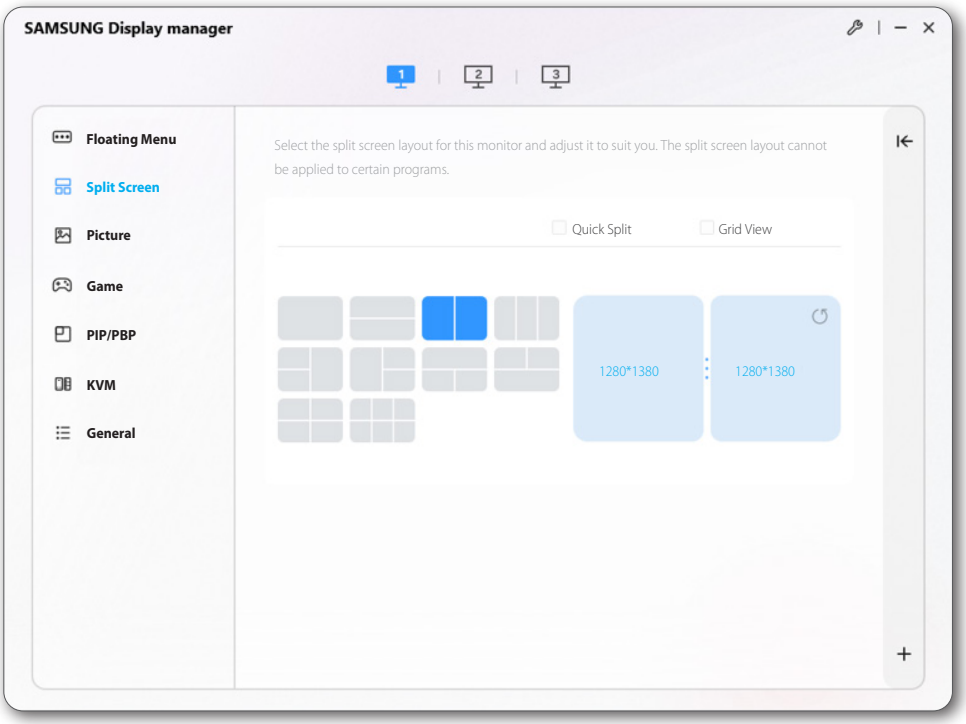
Split Screen Function

Split screen layouts can be set and adjusted for connected monitors.

Note

- This function is supported by all monitors.

Run SDM, select a monitor, and click **Split Screen** on the left panel.



Quick Split	With a split screen layout selected and adjusted, dragging an app window in displays the quick split layout with the app window in a small split window. Even with the Quick Split function off, press the Ctrl key while dragging in an app window to show or hide the quick split layout.
Grid View	The split screen layout set for each monitor is displayed as a grid view.
Select Layout	A desired split screen layout can be selected. The layout in use is displayed in blue.

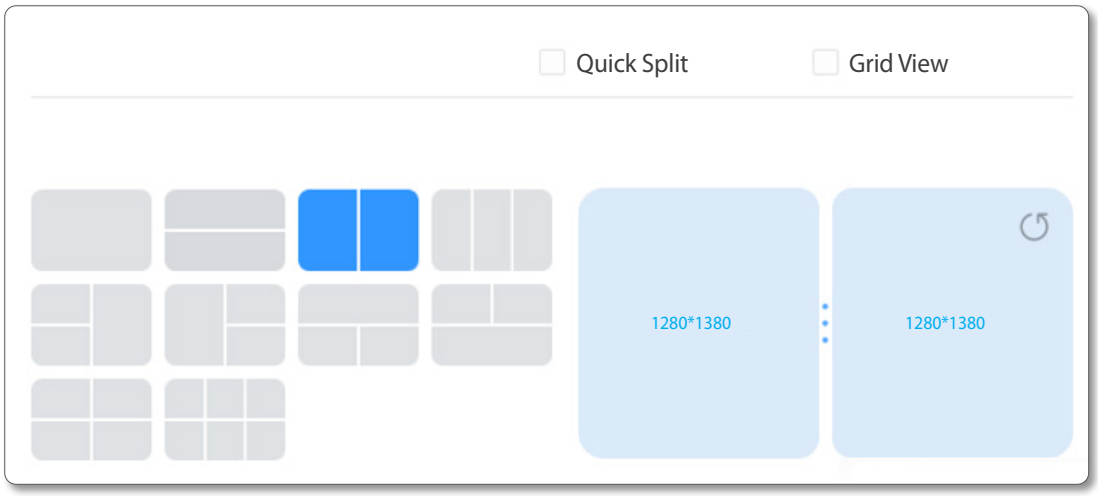
Splitting the Screen

See below to split the screen.

1 Run SDM.

2 Select a monitor to use the split screen function on, and click **Split Screen** on the left panel.

3 Click the split screen layout you desire. Blue dividers for the selected split screen layout appear briefly on the monitor screen and then disappear.



Split Screen Layout Overview

Monitor screens can be split into 2 - 6 grids vertically or horizontally.

Screen split function disabled.

The screen will not be split.



Horizontal Split 2

Displays a grid horizontally dividing the desktop into two halves. This layout allows you to arrange 2 equal sized windows side by side vertically.



Vertical Split 2

Displays a grid vertically dividing the desktop into two halves. This layout allows you to arrange 2 equal sized windows side by side horizontally.



Vertical Equal Split 3

Displays a grid vertically dividing the desktop into 3 screens of equal size allowing you to assign a different window for each screen.



Split 3 (Main at Right)

Displays three split screens on the desktop, one on the right and two smaller equal-size screens on the left.



Split 3 (Main at Left)

Displays a grid dividing the desktop into 3 screens with the larger screen on the left and the other 2 smaller screens (equal size) side by side horizontally.



Split 3 (Main at Top)

Displays a grid dividing the desktop into 3 screens with the larger screen at the top and the other 2 smaller screens (equal size) side by side vertically.



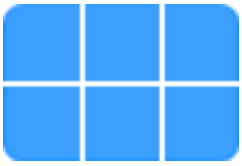
Split 3 (Main at Bottom)

Displays a grid dividing the desktop into 3 screens with the larger screen at the bottom and the other 2 smaller screens (equal size) side by side vertically.



Equal Split 4

Displays a grid vertically dividing the desktop into 4 screens of equal size allowing you to assign a different window for each screen.



Equal Split 6

Displays a grid vertically dividing the desktop into 6 screens of equal size allowing you to assign a different window for each screen.

Window Layout on Split Screen

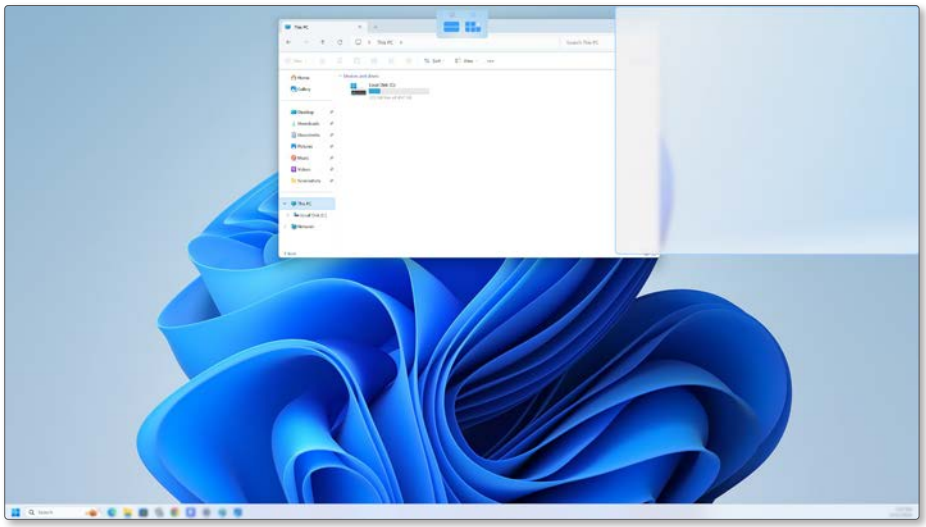
You can directly place the desired split screen by using the mouse after splitting the screen. Press the Ctrl key while moving a window to activate or deactivate the **Quick Split** function.

When **Quick Split** function is off, press the Ctrl key while moving a window to activate or deactivate the **Quick Split** function.

1 Left-clicking and dragging an app title bar shows the **Quick Split** layouts at the top center of the screen.



2 Drag and drop the app title bar in a quick split layout.



3 Release the mouse button and the window will be placed in the split screen grid accordingly.

Adjusting Split Screen Grid

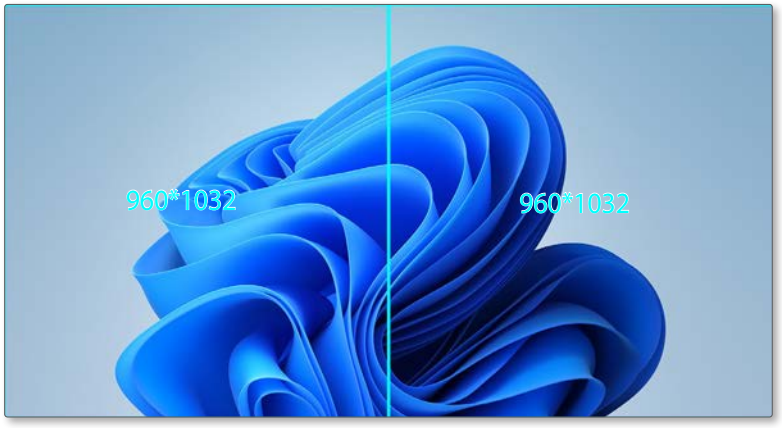
The split screen grids can be adjusted with a mouse. See the procedure below to adjust the split screen grids.

1 Run SDM.

2 Select a monitor to adjust the split screen layout for, and click **Split Screen** on the left panel.

3 Left-click and hold the • • • between the grids and adjust the division line. The resolutions of the split screens appear.





4 Stop the mouse pointer and release the left-mouse button to adjust the split screen grid.

Initializing Split Screen Grid

The split screen grids can be initialized to the default size.

1 Run SDM.

2 Select a monitor to reset the split screen layout for, and click **Split Screen** on the left panel.

3 Click ↺ on the split screen layout adjustment screen.

4-4 Controlling Samsung Regular Monitors

SDM can be used to control monitors' OSD (on-screen display) settings.

Note

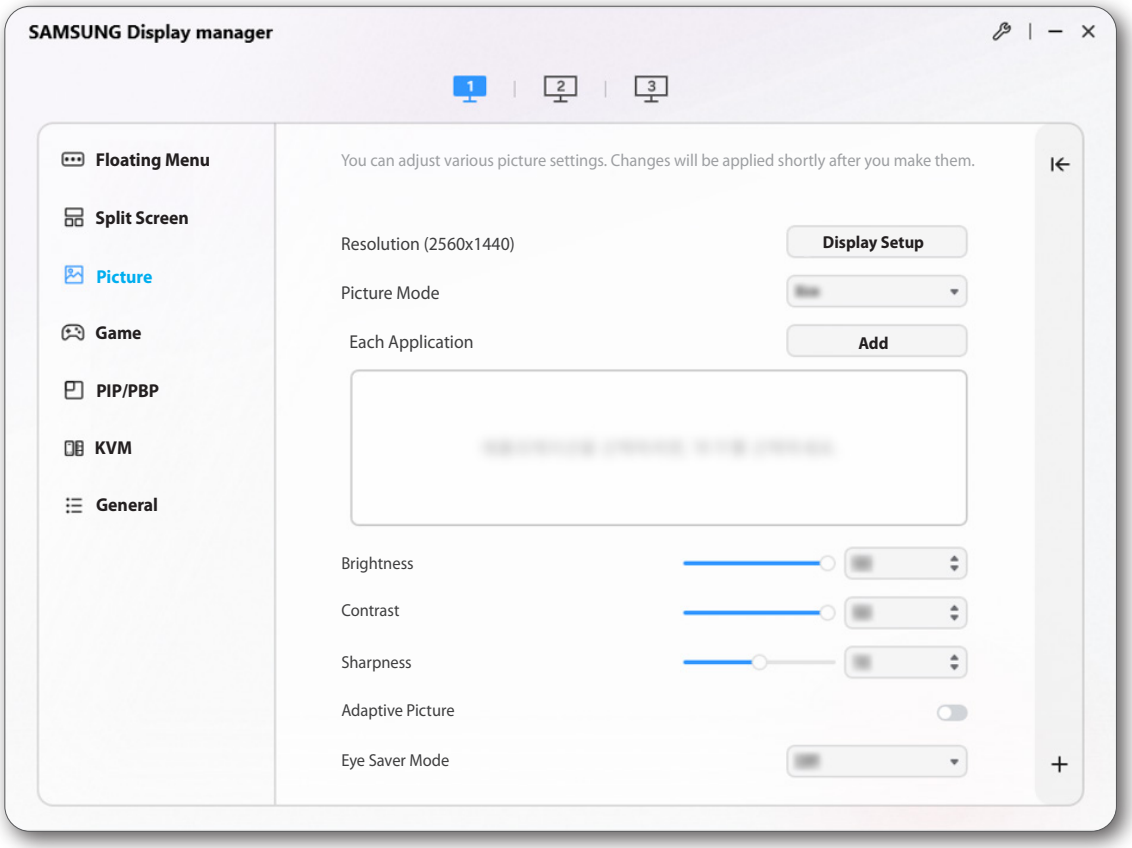
- This function is supported by Samsung regular monitors only. Depending on the model of monitor used, firmware update may be required. This menu is not displayed when a Samsung smart monitor or a monitor of another manufacturer is connected.

Controlling Picture Settings

Picture settings can be controlled. Contrast, brightness, and sharpness can be adjusted.

1 Run SDM.

2 Select a monitor, and select **Picture** on the left panel.



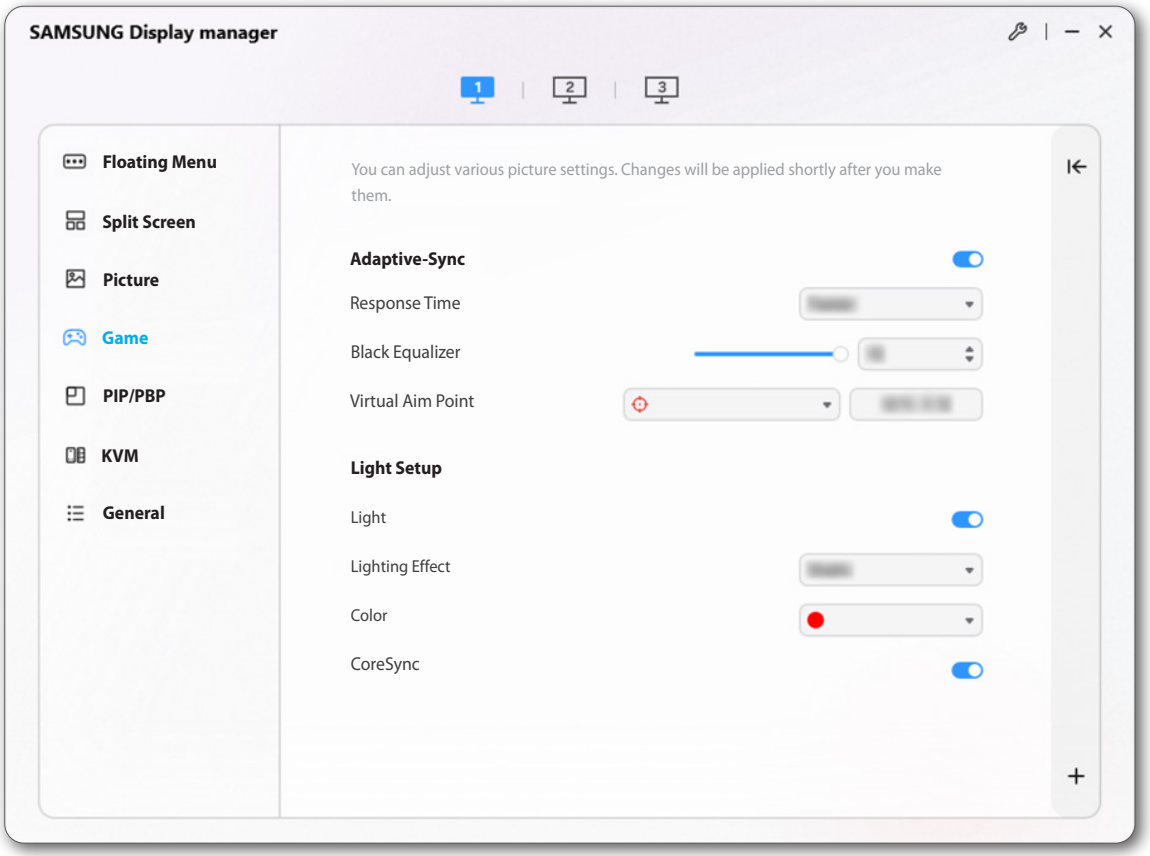
Resolution	Click **Display Setup** to open Windows Display Settings.
Picture Mode	Adjusts display settings based on the selected picture mode.
Each Application	Displays each app in its assigned picture mode when launched.
Brightness	Adjusts the display brightness.
Contrast	Adjusts the display contrast.
Sharpness	Adjusts the display sharpness.
Adaptive Picture	Turns the monitor's AI adaptive picture function on/off.
Eye Saver Mode	Turns the monitor's eye saver mode on/off.

Picture Settings for Games

Picture settings for games can be controlled.

1 Run SDM.

2 Select a monitor, and select **Game** on the left panel.



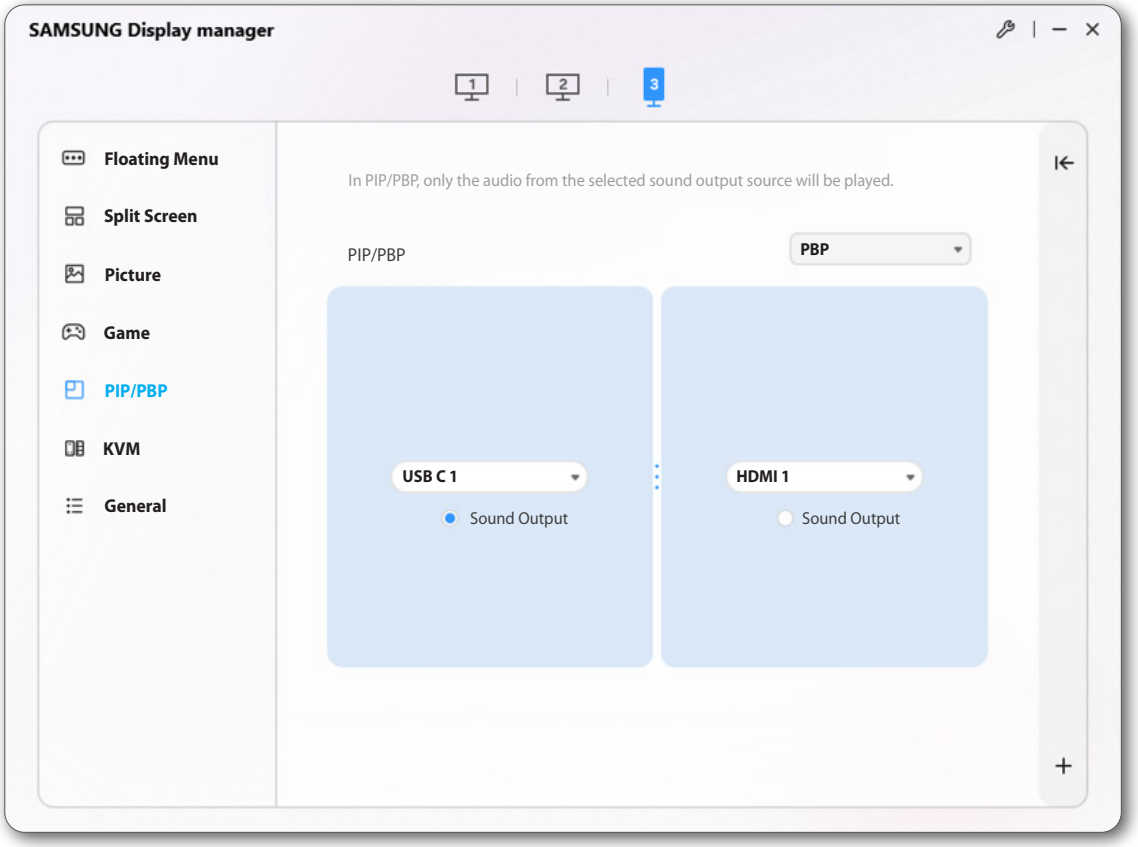
Adaptive-Sync	The **Adaptive-Sync** technology is a solution to reduced display quality caused by lag. • This function is not available if **Ultrawide Game View** is **ON**. • This function is not available if **PIP/PBP** is enabled. • This function is not available as **FreeSync** on some monitors.
Response Time	Faster display response can be set for a sharper and more natural-looking display when playing games. • This function is not available if **PIP/PBP** or **Adaptive-Sync** is enabled.
Black Equalizer	Adjusts the brightness of dark areas. Dark areas become brighter as the setting nears 1, allowing enemies to be spotted faster in game play. Lower the Black Equalizer setting to spot enemies faster when playing games. Dark areas become darker and contrast increases as the setting nears 10. • This function is not available if **Eye Saver Mode** or **PIP/PBP** is enabled.
Virtual Aim Point	Choose from 6 virtual aim points. • This function is not available if **PIP/PBP** is enabled.
Light	Turns the monitor's LEDs on/off.
Lighting Effect	Sets LED lighting effects.
Color	Changes LED lighting color.
CoreSync	Turns the monitor's **CoreSync** function on/off. See the monitor's User Manual for more information about **CoreSync**. • This function is indicated as **EdgeSync** on some monitors.

Enjoying Two Pictures on a Single Screen

Two sources connected to a monitor can be enjoyed simultaneously on the single screen. Sound output comes from the user-selected source.

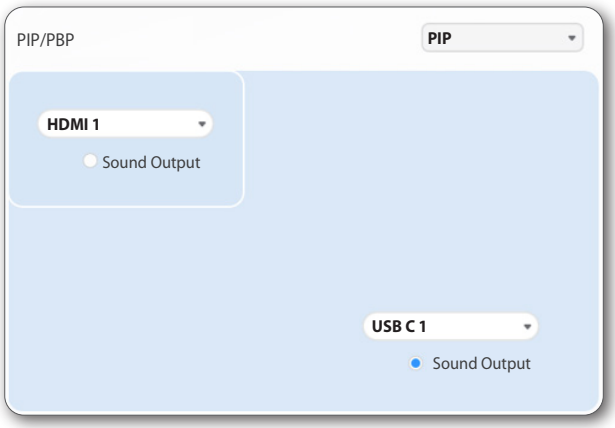
1 Run SDM.

2 Select a monitor, and select **PIP/PBP** on the left panel.

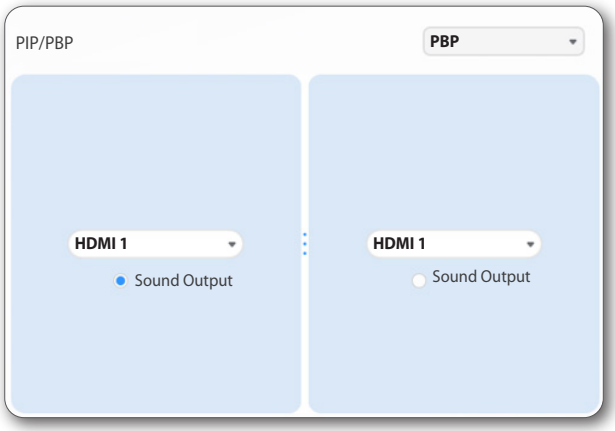


3 Choose from the display options.

- **Off**
  The screen is not split and only one source is displayed.
- **PIP(Picture-in-Picture)**
  A smaller picture is displayed within the larger picture. The main picture is maintained, with the smaller picture displayed as a smaller window in a corner. The small picture can be resized and repositioned with the cursor.



- **PBP(Picture-By-Picture)**
  The screen is split down the middle to display 2 pictures side by side. The handle at the display center can be used to adjust picture sizes. Drag with the cursor to switch the 2 pictures' positions.

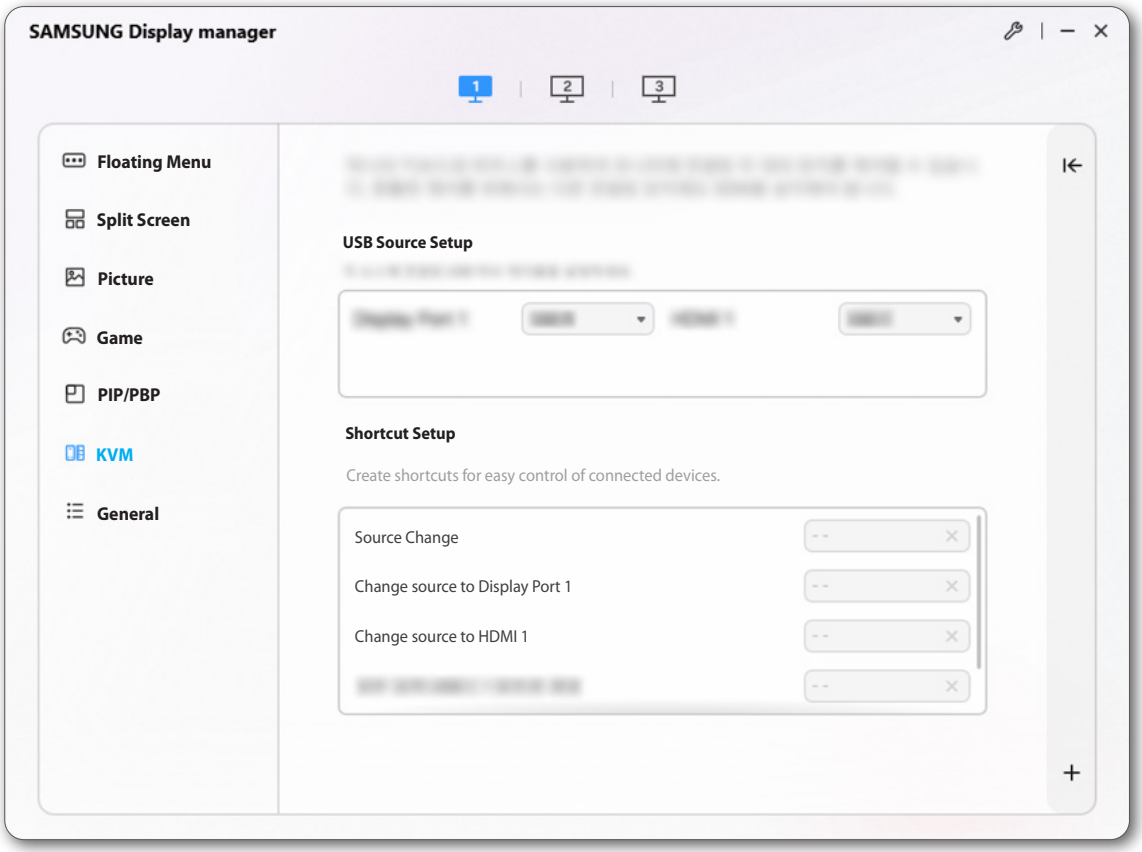


Controlling Multiple PCs with One Mouse and Keyboard

Multiple PCs connected to monitors can be controlled in turn with 1 mouse and keyboard. SDM must be installed on each PC.

1 Run SDM.

2 Select a monitor, and select **KVM** on the left panel.



Setting Sources

1 Connect a monitor and PC with a USB hub cable.

2 Select and set a source.

Shortcut Setup

Shortcuts can be set for a quick change of sources.

Source Change	A shortcut to source change.
Change source to **	A shortcut to a specific source.
Change which PC you control by switching the USB port between the main and sub screens in PIP/PBP mode.	After setting this shortcut, selecting it changes the USB source. When PIP/PBP is in use with the main picture connected by HDMI (USB-C) and the sub-picture by DP1 (USB-B), selecting this shortcut switches the displayed pictures as well as the USB sources of the mouse and keyboard. Every time this shortcut is selected, the displayed pictures are switched together with the mouse and keyboard control.

4-5 Managing Samsung Regular Monitors

SDM provides a number of admin functions for managing Samsung regular monitors and for advanced function users.

Note

- This function is supported by Samsung regular monitors only. This menu is not displayed when a Samsung smart monitor or a monitor of another manufacturer is connected.

Run SDM, and select **General** on the left panel.

Import Setup

A setup file exported to another monitor or system can be retrieved and applied to the monitor.

1. Run SDM.
2. Select a monitor, and select **General** on the left panel.
3. Click  in **Import Setup**.
4. On the file selection window opened, select the setup file to retrieve and select **OK**.
   The selected setup is applied to the monitor.

Export Setup

The setup of the monitor can be saved as a file to be reused or imported by another PC.

1 Run SDM.

2 Select a monitor, and select **General** on the left panel.

3 Click in **Export Setup**.

4 Select the export location, set a file name, and select **Save**.
The setup file is created.

Firmware Update

Firmware update can be performed to fix bugs or use new functions.

Note

- Models that support firmware update are required to use this function.
- This function is supported on Windows only.

1 Run SDM.

2 Select a monitor for firmware update, and select **General** on the left panel.

3 Click in **Firmware Update**.

4 On the file selection window opened, select the firmware to update and select **OK**.
Update takes place, and a popup notification is displayed on completion

Changing a Monitor's MAC Address to a PC's MAC Address

The MAC address of the network adapter in a monitor can be changed to the MAC address of a PC for uniform device recognition.

Note

- This function is supported by MAPT-supported monitors only.
- This function is not available if 2 or more monitors connected to a network device are used. (Can be used if only 1 monitor connected to a network device is used.)
- This function is supported on Windows only.

1 Connect the monitor and PC with a USB-C or USB upstream cable.

2 Run SDM.

3 Select a monitor to set the MAPT function for, and select **General** on the left panel.

4 Turn on the **MAPT** switch.

Resetting a Monitor

Restores the monitor to factory settings.

1 Run SDM.

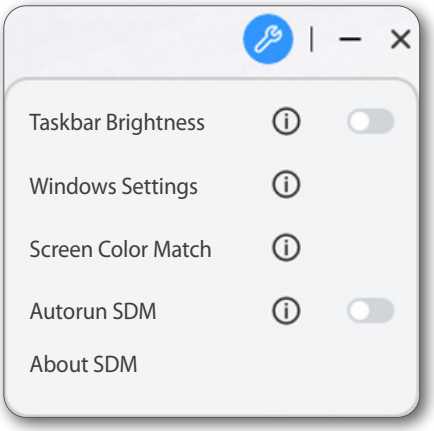
2 Select a monitor for reset, and select **General** on the left panel.

3 Click ↺ in **Reset All**.
Monitor settings are reset.

5 Additional Functions

SDM's additional functions help customize the user environment through sync with Windows configuration, color correction, auto run, and more.

Click on the top right of the SDM window.



Adjusting Taskbar Brightness

The location and size of the taskbar is recognized and taskbar brightness can be automatically adjusted to prevent display issues.

Run SDM, and click > **Taskbar Brightness**.

Opening Windows Settings

Windows Settings can be opened to optimize Windows to basic Windows settings or user requirements.

Run SDM, and click > **Windows Settings**.

Using the Screen Color Match Function

This function is used to color-match 2 different Samsung monitors. Auto color correction is performed by connecting to a mobile device.

Note

- At least 2 Samsung regular monitors must be connected to use this function.
- The 2 monitors share the same display settings.
- At least 1 monitor must support picture setup by DDC/CI.

1 Run SDM, and click > **Screen Color Match**.

2 Scan the QR code displayed on the popup with a smartphone to install the SDM app on the smartphone. Android is required to install the SDM app.

3 Select **Start** on the **Screen Color Match** screen displayed on the smartphone.

4 Select a reference monitor on the smartphone, and select the monitors for color match.

5 Capture images of the screens with the smartphone camera and perform color correction.

6 Check the result of color correction, and select **Retry** if further correction is required.

Enabling Auto Run SDM

SDM can be set to run automatically at boot. The SDM window is not displayed.

Run SDM, and click > **Autorun SDM**.

About SDM

SDM version, open source licenses, and copyrights are indicated.

Run SDM, and click > **About SDM**.

Running SDM through the System Tray (Notification Area) Icon

When SDM is running, the SDM icon remains in the system tray on the right side of the Windows taskbar. The SDM icon can be used to instantly open SDM.

Double-click the SDM icon ( ) on the right side of the Windows taskbar. The SDM window is displayed.

If the SDM icon is hidden, click the ^ button to find it.

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