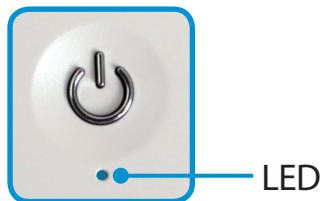


Turning the computer on

- 1 Connect the **AC adapter**.
- 2 Lift the LCD panel up.
- 3 Press the **Power button** to turn the computer on.



- 4 If the power is turned on, the **Power Button LED** is lit.



About Windows Activation

When you turn the computer on for the first time, the Windows activation screen appears.



Follow the activation procedures according to the instructions on the screen to use the computer.

! The computer's time and date may differ from the current time if you turn on the computer for the first time, or you have removed the battery, or the battery has been completely discharged.
Set the time and date.

Adjusting the screen brightness

When the computer runs on battery power, the LCD brightness is automatically set to low.

Press the **Fn** + **F3** key combination to increase the screen brightness.

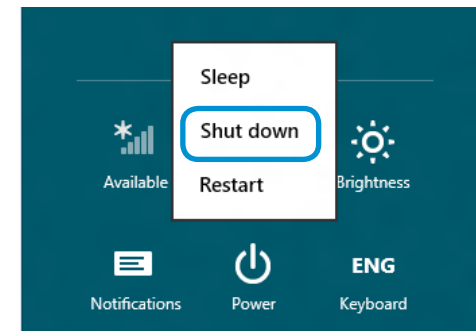
- 1 The **Charms menu** appears when you place your mouse pointer at the edge of the top or bottom right of the screen. Alternatively, if you place your finger on the right edge of the touchpad and drag your finger toward the center, the Charms menu appears.
- 2 Increase the bar by pressing the **Settings**  > **Brightness** .

Turning the computer off



- Since the procedures to turn the computer off may differ depending on the installed operating system, please turn the computer off according to the procedures for the purchased operating system.
- Save all your data before clicking on **Shut down**.

- 1 The Charms menu appears when you place your mouse pointer at the edge of the top or bottom right of the screen.
- 2 Click **Settings** ⚙️ > **Power** 🔌 > **Shut down**.



If you want to power off your computer when you are logged out, unlock the screen and click **Power** 🔌 > **Shut down**.



Chapter 2. Using Windows 8

What is Microsoft Windows 8?	31
Screen At a Glance	32
Using the Charms	34
Using Apps	36
Windows Hot Key Function	39

Microsoft Windows 8 (hereafter referred to as Windows) is an operating system that is required for operating a computer.

To use your computer optimally, you need to know how to use it properly. Therefore, It is better to learn how to use Windows by utilizing **Windows Help and Support**.

- The screen may appear somewhat different depending on the model and the operating system.
- Since this guide has been prepared based on Windows 8, some of the instructions may differ depending on the version. It may also be modified without prior notice.

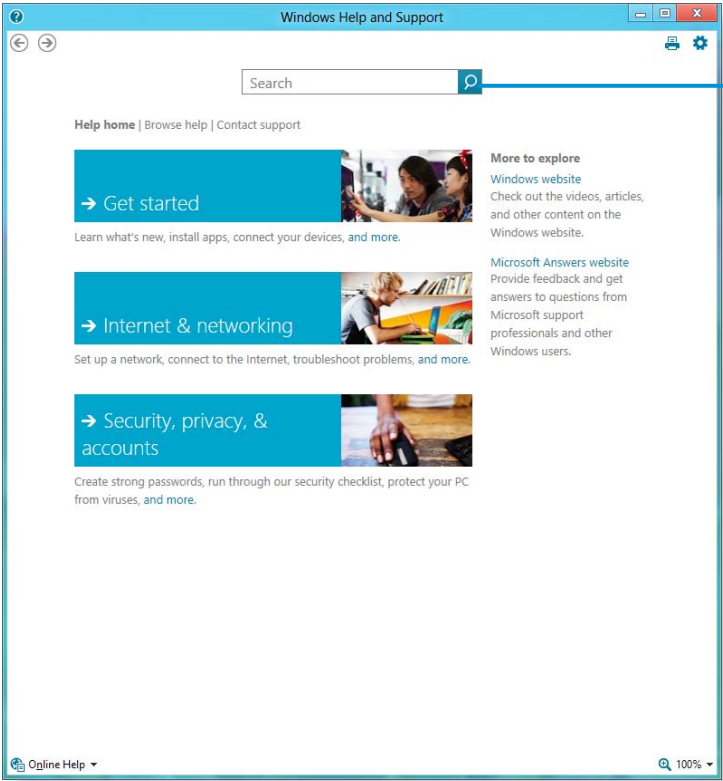
Displaying Help

Press the **F1 Key** on the keyboard to display the Help.

Alternatively, place your mouse cursor over the end of the top or bottom right area on the screen to display the Charms menu.

Click **Charms** menu > **Settings** > **Help**.

- If you are connected to the internet, you can access the most recent online Help.



Searching
for Help

Getting Started	You can view basic instructions on how to use your computer including new function(s) for the Windows OS.
Internet & networking	After connecting to the network, you can check the Help section required to use the internet.
Security, Privacy, & accounts	You can check the Help information required to protect your computer and personal information.

Windows 8 provides both the new **Start screen** mode and the **Desktop** mode of the existing OS.



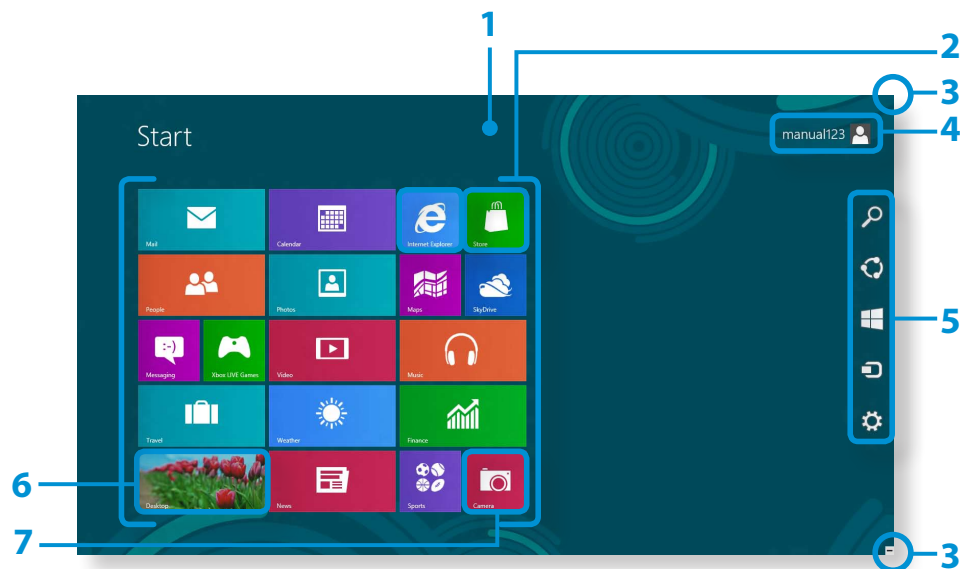
Start Screen



Desktop

Start Screen

When you turn on the computer, the **Start screen** is displayed, which allows you to use the applications (Application, App, hereafter referred to as an **App**) at the same location.



1	Start Screen	Refers to the default Start screen of Windows 8.
2	App	Refers to the apps that are currently installed.
3	Displaying the Charms	<p>The Charms is hidden at the right of the screen. Place your mouse pointer at the edge of the top or bottom right of the screen to display the Charms.</p> <p>Or you place your finger on the right edge of the touch pad and drag your finger toward the center, the Charms menu appears.</p>
4	User Account	This refers to the currently used user account.
5	Charms	This refers to the menu that allows you to use functions such as Search, Share, Start, Device and Settings.
6	Desktop	Switches to Desktop mode.
7	Camera	Allows you to take pictures or make a movie.


Desktop

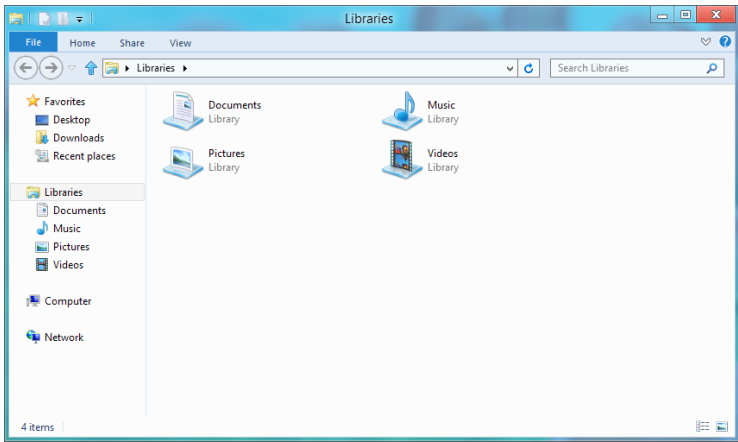
This provides similar functions to those provided by the Desktop in prior Windows versions.



1	Desktop	Refers to the Desktop.
2	Displaying the Charms	The Charms is hidden at the right of the screen. Place your mouse pointer at the edge of the top or bottom right of the screen to display the Charms.
3	Charms	This refers to the menu that allows you to use functions such as Search, Share, Start, Device and Settings.
4	Switching to the Start Screen	Click the corner of the bottom left of the screen to switch to the Start screen.

Displaying Documents and Files

Click Windows Explorer in the taskbar on the Desktop  to search for documents and files.



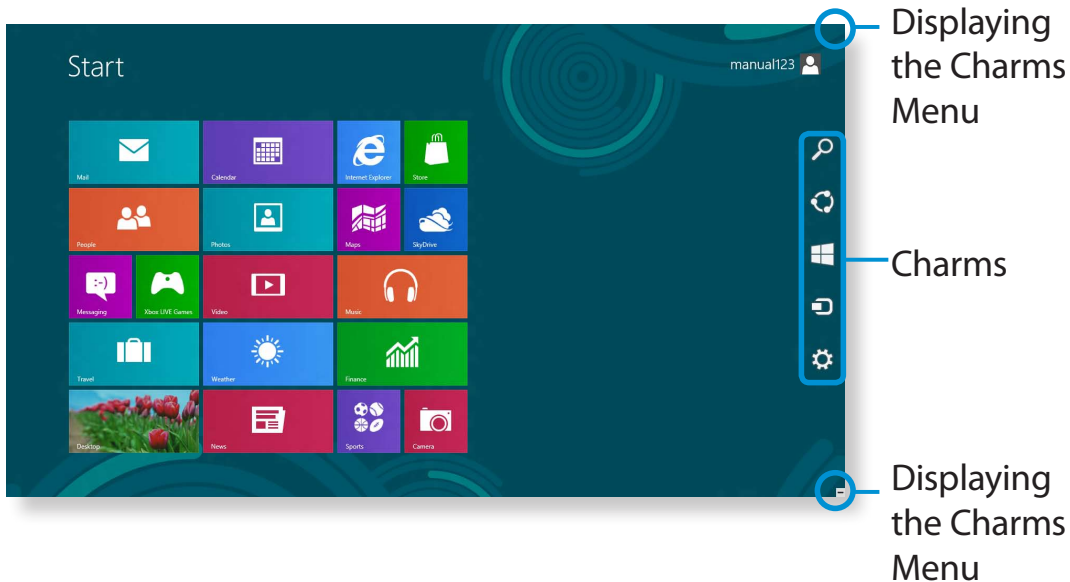
Using the Charms

The Charms is a new type of menu that combines the Start menu with the Control Panel of existing Windows.

The Charms allows you to quickly configure the device(s) connected to your computer, search for App(s)/file(s), and use the sharing function, etc.

Activating the Charms

If you move your mouse pointer to the top or bottom right corner of the screen, the **Charms** appears.



Displaying
the Charms
Menu

Charms

Displaying
the Charms
Menu



Search

If you want to search for a program or file in the App(s)/ Settings/File(s), simply enter a keyword in the Search charm and start Search.

You can also search within an App or on the Web.



Share

You can use this menu to transfer a picture or file to another user. You can easily share pictures or files with other users simply by associating multiple Apps with the Share charm.



Start

You can move to the Start screen.



Device

As this allows you to move directly to a desired device, you can handle tasks such as importing pictures from a digital camera, streaming a video to your TV or transferring files to a device on the current screen.

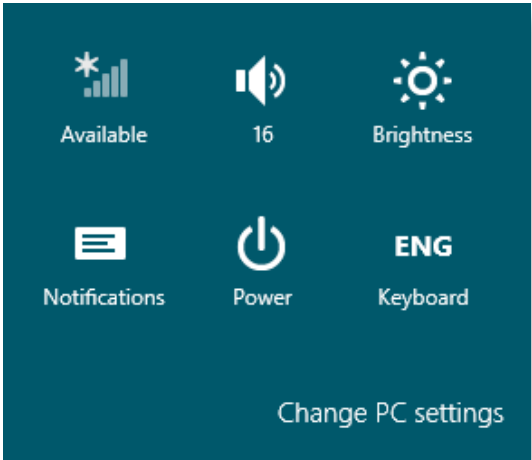


Settings

The Settings charm allows you to perform basic tasks such as adjusting the volume, turning off the PC, etc. If you select the Settings charm while a specific App is running, the settings for the currently running App are displayed.

Changing the Settings

Frequently used Windows menus are collected.
Click the **Charms > Settings**.



Icon	Name	Function Description
	Wireless Network	You can connect to a wireless network. Select a wireless network to connect to.
	Adjusting the Volume	You can adjust the volume or mute the sound.
	Screen Brightness	You can adjust the screen brightness.
	Notice	You can set the interval at which an App sends notices.
	Power	You can turn off your computer or select the Power Options.
	Language	You can set the Language.

Change PC settings

You can change more settings.

An App refers to an application program (hereafter referred to as an **App**). In a larger sense, it refers to all the software programs installed on the operating system.

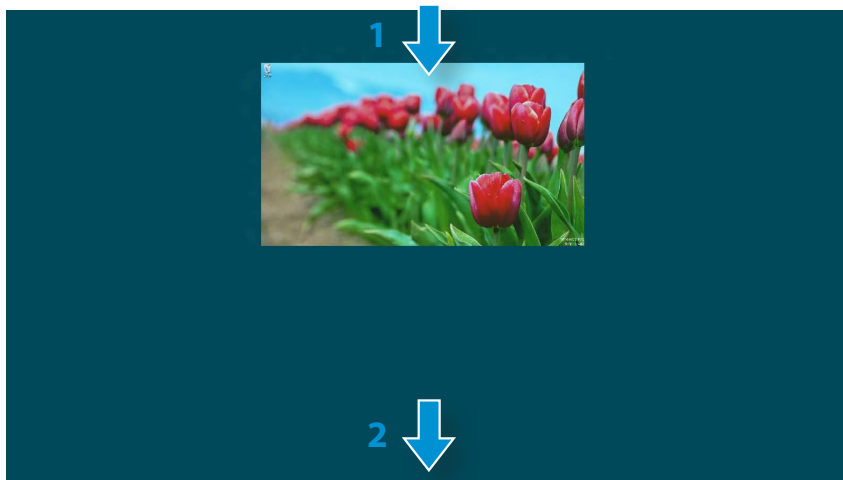
Windows 8 provides basic Apps for frequently performed tasks.

Starting/Exiting an App

Click on an App in the Start screen to activate it.

To exit the App

- 1 Move your mouse pointer to the top of the screen. Your mouse pointer changes to a **hand shape**.
- 2 Click and hold your mouse button and then drag it to the bottom of the screen. The App moves downward and disappears and exits.



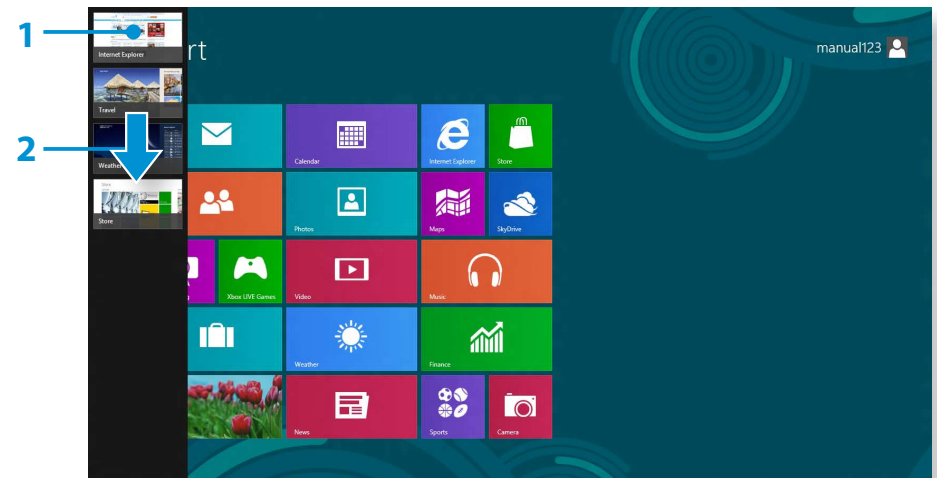
Using Apps

Displaying Currently Running App(s)

- 1 Move your mouse pointer to the top left corner of the screen to display the last run App.
- 2 Then, move your mouse pointer down to display a list of the currently running Apps in order.
- 3 Click on an App in that list or drag it to the center of the screen. Now, you can check the selected App which is currently running.

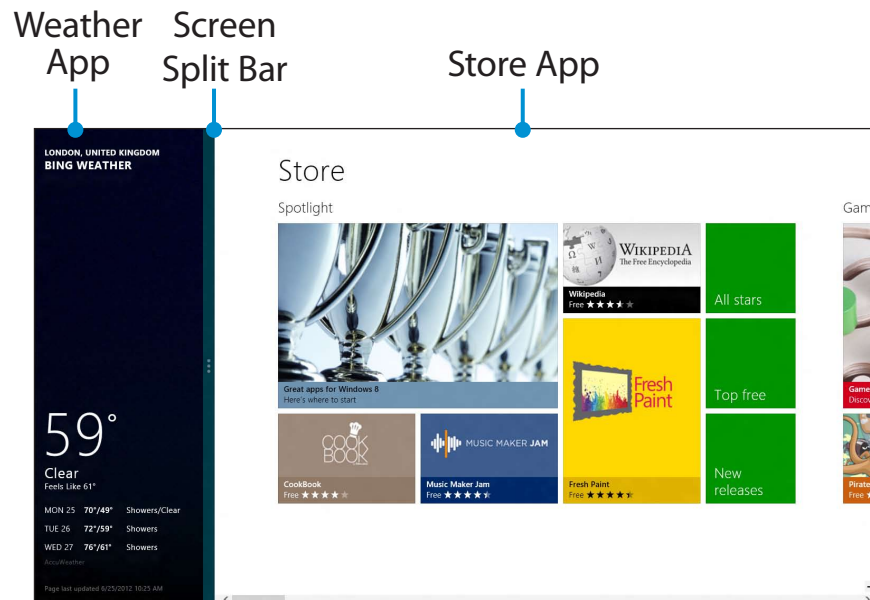


Right-click over the App in the list and click **Close** to exit the App.



Running Two Apps at the Same Time


- 1 Select the **Apps** in the **Start screen**.
- 2 Move your mouse pointer to the top of the screen. Your mouse pointer changes to a **hand shape**.
- 3 If you click and hold your mouse button and move left or right, you can split the screen to display multiple Apps.
- 4 Move the **Screen Split Bar** to change the screen split ratio. Supported screen split ratios are 3:7 or 7:3.





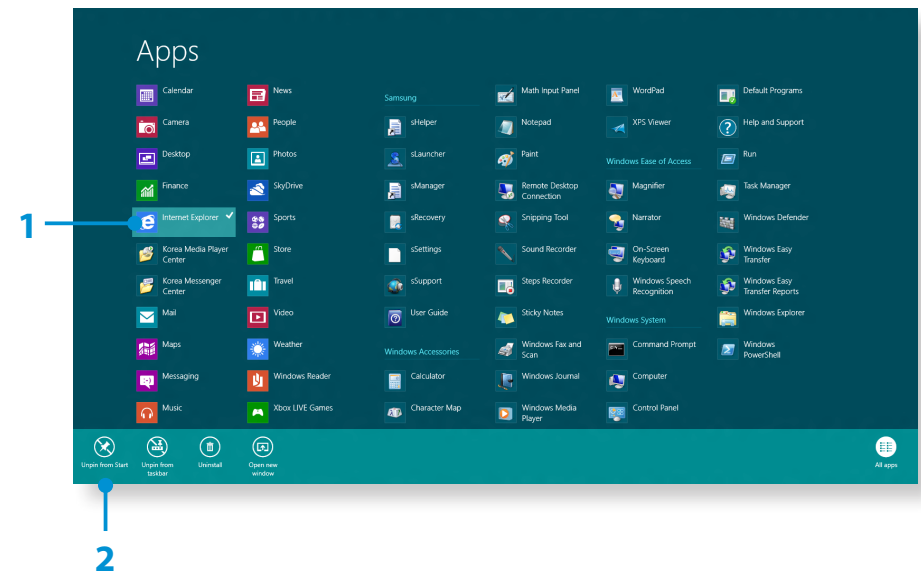
Ex) If you run the Weather App and Store App at the same time

Adding/Removing an App to/from the Start Screen

Click **Start screen** > **right-click** your mouse button.

Click **All Apps**  at the bottom of the screen to display all the Apps that are currently installed.

- 1 If you right-click over the App to be added, the relevant menu is activated at the bottom of your screen.
- 2 Click **Pin to start**  or **Unpin from Start** .



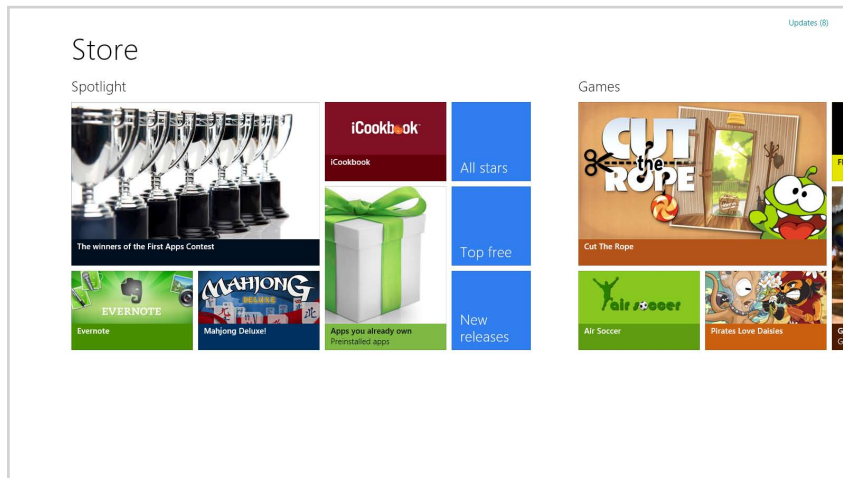
Ex) When removing an App in the Start screen

Using the Windows Store

If you run the App Store in the Start screen, the Apps in the Windows Store are displayed.

However, a Microsoft account is required to purchase App(s) in the Windows Store.

Continue after registering your Microsoft Account in the Charms.



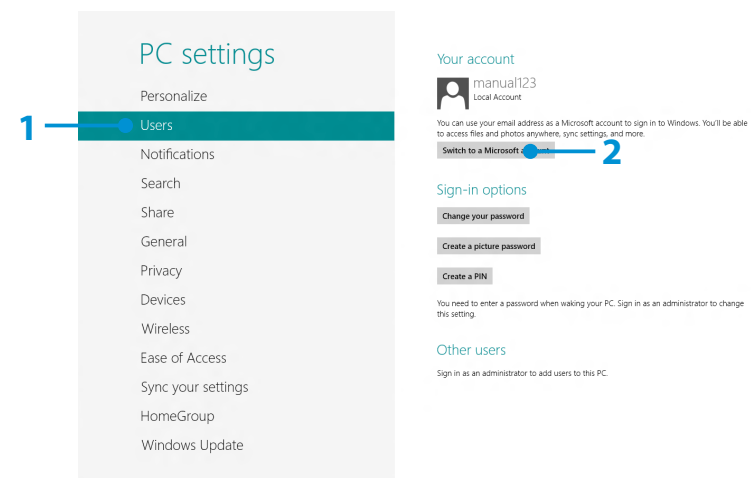
Samsung cannot solve errors occurring with other apps installed from the Windows Store. Contact customer support for the app directly.

Configuring your Microsoft Account

A Microsoft Account allows you to synchronize your settings with other device(s) running Windows 8 online allowing you to share file(s) or settings.

You should register a Microsoft Account to download or purchase App(s) from the Store.

- 1 Run the **Charms** and click **Settings > Change PC Settings**.
- 2 Click **Users > Your Account > Switch to a Microsoft account**.
- 3 Register your account through the following relevant procedures.



Windows Hot Key Function

You can use the following convenient hot keys in Windows 8.

Function	Hot Keys	Function Description
Displaying the Start Screen	Windows Key	Switches to Start mode.
Displaying the Desktop	Windows Key + D	Switches to Desktop mode.
Running the Charms	Windows Key + C	Activates the Charms.
Locking the Screen	Windows Key + L	Locks the screen.
Opening the Ease of Access Center	Windows Key + U	Opens the Ease of Access Center configuration.
Opening the Second Screen Settings	Windows Key + P	Opens the External Monitor Settings menu.
Opening the Advanced Management Tool	Windows Key + X	Opens the Advanced Management Tool.
Exit App	Alt + F4	Exits the currently running App.



Chapter 3. Using the computer

Keyboard	41
Touchpad	43
Multi Card Slot	47
Connecting an External Display Device	49
Adjusting the Volume	53
LCD Brightness Control	55
Wired Network	56
Wireless Network (Optional)	59
Samsung Software Update	61
Diagnosing the Computer Status and Troubleshooting	62
Using the Security Slot	63

Shortcut key functions and procedures are discussed in the following sections.

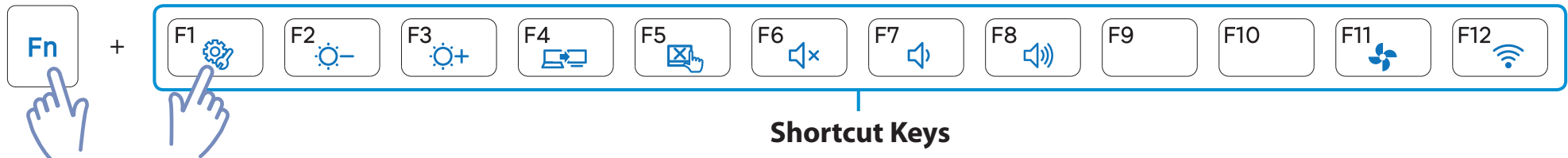






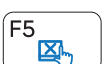





- The keyboard image may differ from the actual keyboard.
- The keyboard may differ depending on your country. The following mainly describes the shortcut keys.

Shortcut Keys


Press both the **Fn** key and hot key at the same time.

► Method 1



Shortcut Keys	Name	Function
	Settings	The Samsung software control program, the Settings , is launched.
 	Screen Brightness Control	Controls the screen brightness.
	CRT/LCD	Switches the screen output to the LCD or external monitor when an external monitor (or TV) is connected to the computer.
	Touchpad	Turns the Touchpad function on or off. When using an external mouse only, you can turn the Touchpad off.
	Mute	Press this button to turn the audio on or off.
 	Volume Control	Controls the volume.
	Silent Mode	Reduces the Fan noise so that users can use the computer without hearing noise.
	Airplane Mode	Turns all wireless network devices on or off. (Only for models with a wireless network device.)

Other Function Keys

 If the hot keys do not work properly, you have to install the **Settings**.

Touchpad

The touchpad provides the same function as a mouse and the left and right buttons of the touchpad plays the role of the left and right buttons of a mouse.

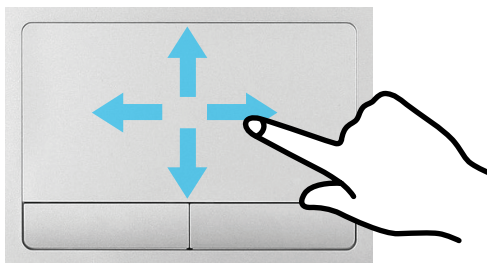


- Touch the touchpad with your fingers only. Anything other than your fingers, such as a ball-point pen, will not be recognized by the touchpad.
- If you touch the Touchpad or press the Touchpad buttons while booting up, the Windows boot time may be extended.

Basic Touchpad Functions

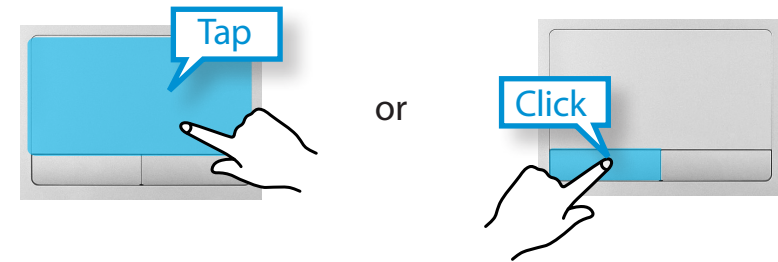
Moving the cursor on the screen

Place your finger on the touchpad slightly and move your finger. The mouse cursor will move accordingly. Move your finger in the direction you wish to move the cursor.



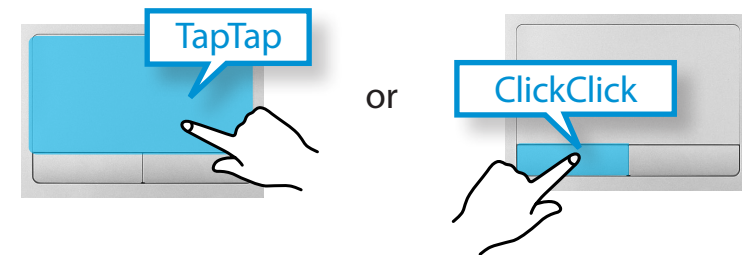
Click Function

Place a finger on the touchpad and click on an item once. Alternatively, press the left button once quickly and release it.



Double-Click Function

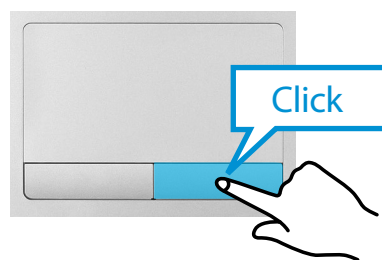
Put your finger on the touchpad and quickly tap twice with your finger on an item you want. Alternatively, press the left touchpad button twice quickly.



Right Button Function

This corresponds to clicking the right mouse button.

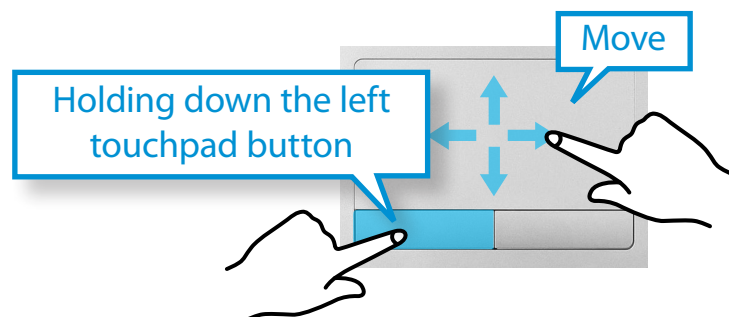
Press the right touchpad button once. The corresponding pop-up menu appears.



Drag Function

Dragging refers to moving an item to another place after selecting it.

Press and hold down the left touchpad button over an item you want to drag and move the item to the new location.



The Gesture Function of the Touchpad (Optional)




- The Touchpad Gesture function may not be provided and the version of the function may differ depending on the model. Some usage procedures may differ depending on the version.
- For detailed usage procedures, refer to the description in the Touchpad Settings window.

Configuring the Gesture Function

Some gesture functions may not be configured.

In this case, you can configure them using the following path.

- 1 On the Desktop, click the **Charms menu > Settings**  > **Control Panel > Hardware and Sound > Touchpad**.
- 2 When the Touchpad Settings window appears, click the corresponding item in the **Select an Item to Configure** setting to select the checkbox for the corresponding item.

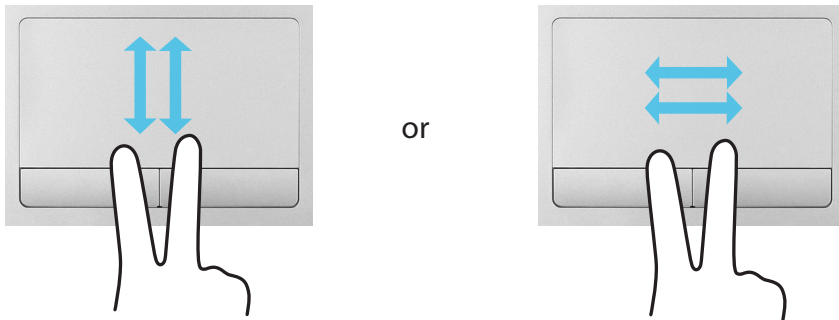


- To cancel the Gesture function, deselect the checkbox for the corresponding item in the Touchpad Settings window.

The Scroll Function

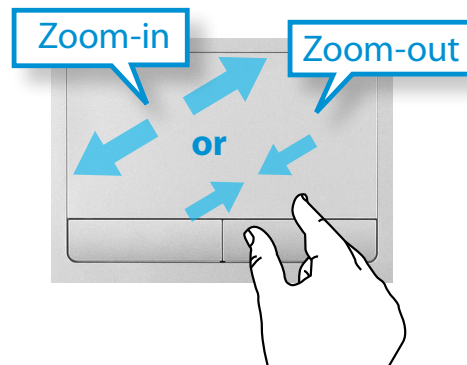
This function is the same as the scroll area of the Touchpad.

If you place two fingers over the Touchpad and move them up, down, left or right, the screen is scrolled up, down, left or right accordingly.



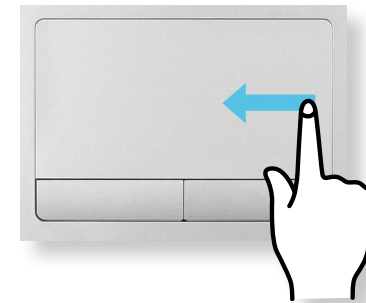
Zoom Functions

If you place two fingers over the Touchpad together or apart, the current image or text is zoomed in or out.



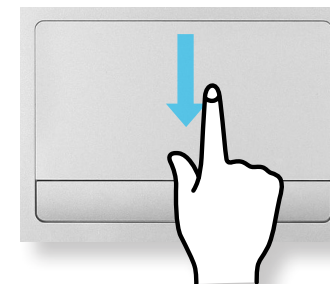
Charms Menu Activating Function

If you place your finger on the right edge of the touch pad and drag your finger toward the center, the Charms menu appears.



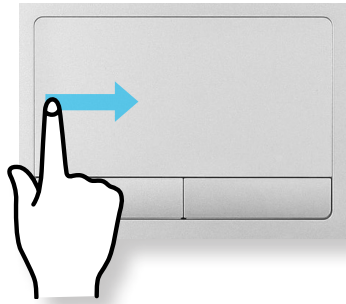
Displaying Additional Menu(s) of a Currently Running App

Place your finger at the edge of the top area on the touch pad and drag your finger toward the center, and the menu of the currently running App appears.



Last Run Window Opening Function

Place your finger on the left edge of the touch pad and drag your finger towards the center to activate a previously operating program from among the currently running programs.



Touchpad On/Off Function

Locking with shortcut keys

If you want to use the mouse only without using the touchpad, you can turn the touchpad off.

To lock the touchpad function, press the **Fn** + **F5** keys.



You can set the touchpad and touchpad button settings in the tabs that appear when clicking **Charms menu on the Desktop > Settings > Control Panel > Hardware and Sound > Touchpad**.

Auto-locking when connecting USB mouse

If an external USB pointing device is connected in the **Charms menu in Desktop > Settings > Control Panel > Hardware and Sound > Touchpad**, check Disabled to disable the touchpad feature when connecting to the USB mouse.



This auto-locking function is not provided for some models.

Using the multi card slot, you can read and write data to cards.

You can use a card as a removable disk and conveniently exchange data with digital devices such as a digital camera, digital camcorder, MP3, etc..



- Supported Cards : SD Card, SDHC Card, SDXC Card
- You have to additionally purchase a multi card with the necessary capacity depending on your requirements.
- You can use a multi card just like any data storage device. A copyright protection function is not supported.
- Since you can lose a card when moving the computer, keep the card separately.
- The figures used for the description are of a representative model. Therefore the figures may differ from the real ones.
- If a slot protection dummy card is inserted into your computer, remove the dummy card before using the computer.
- These descriptions are written based on Windows 8, the latest operating system. Therefore, some descriptions and figures may differ from your operating system. But as the usage is similar to other Windows operating systems, you can use these descriptions for reference.

Using the card

- 1 Insert the card into the multi card slot in the indicated direction.



Example) SD Card

- 2 The following message appears on the top right. Click to **open the folder and click** View Files.

Removable Disk (F:)
Tap to choose what happens with memory cards.



If a message appears to notify you of any problem, click the corresponding window > **Continue without Scanning**. You can perform the following process described in No. 3.

- 3 **Windows Explorer** runs on the Desktop. You can save, move and delete data on the corresponding drive.

Using a Mini SD

Since the above cards are too small, you cannot insert the cards into the slot directly.

Insert the card into the dedicated adapter (available from most electronic retailers) and then insert the adapter into the multi card slot.

To remove a memory card

Take hold of the end of the card and remove the card.

To format a memory card

When using the memory card for the first time, you must format the card before using it.



Formatting a card deletes all data saved on the card. If the card includes data, backup the data before formatting it.

1

Click the **Windows Explorer**  icon in the taskbar on the Desktop.

2

Right-click over a card drive with the touchpad and select **Format**.

3

Click **Start** to the formatting.



- To use a card to exchange data with a digital device such as a digital camera, formatting the data using the digital device is recommended.
- When you try to use a card, which is formatted in the computer, in another digital device, you may have to format the card again in the device.
- You cannot format, write or delete data from a SD, or SDHC card with a write protection tab when it is in the Lock position.
- Inserting and removing a memory card repeatedly may damage the memory card.

If you connect an external display device such as a monitor, TV, projector, etc., you can view the picture on the wider screen of the external device when you give a presentation or watch a video or movie.

The computer provides an analog monitor port (D-SUB) and a digital video/audio port (HDMI).

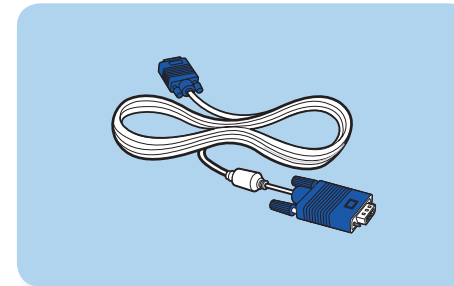
The visual quality is sharper when a display device is connected through the HDMI port rather than the analog monitor port (D-SUB) port. Therefore, when multiple ports are supported, connect a display device to a port that provides the better visual quality.



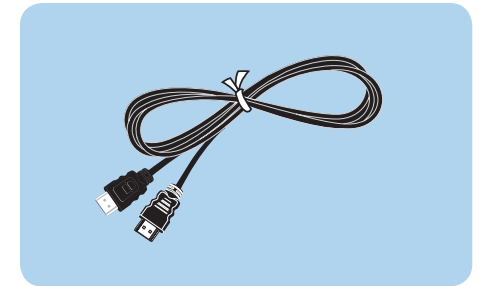
Before you start, check the port and cable of the external display device and then connect the display device to the computer.

About the connection cable

Users should additionally purchase the necessary connection cables.



D-SUB Cable



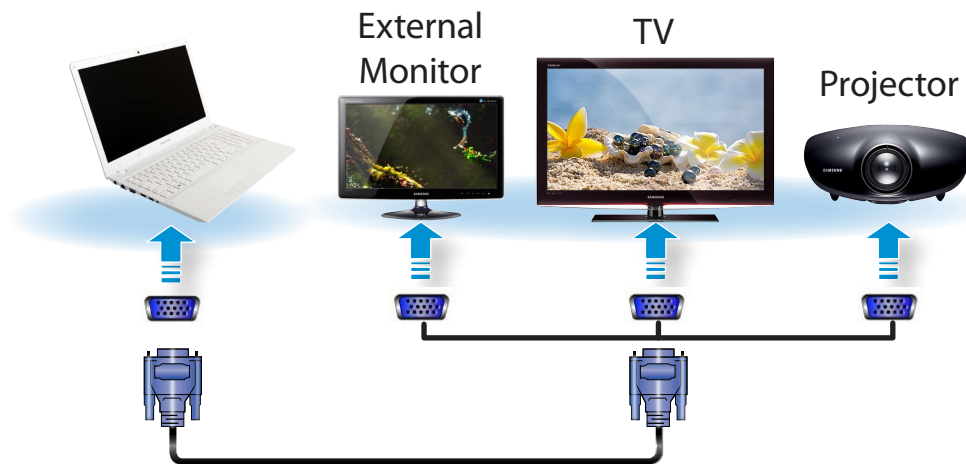
HDMI Cable

Connecting to the monitor port (Optional)

You can experience a wider screen by connecting the computer to a monitor, TV or projector with a monitor port.

You can give better presentations by connecting the computer to a projector.

- 1 Connect the D-SUB port of the computer and the port of the monitor or TV with the monitor cable (15 pin).







- 2 Connect the power cord of the connected monitor, TV or projector and turn the power on.



Change your TV to external device mode when connecting to the TV.

- 3 Select **Charms menu** > **Devices**  > **Second Screen**.
Select a desired monitor mode.

	PC Screen only The contents are only displayed on the PC monitor (current device).
	Duplicate The contents of the current device are displayed on the external device as well.
	Extend The screen of the current device is expanded to the external device.
	Second screen Only The contents are displayed only on the screen of the external device.



Alternatively, to set up dual view:

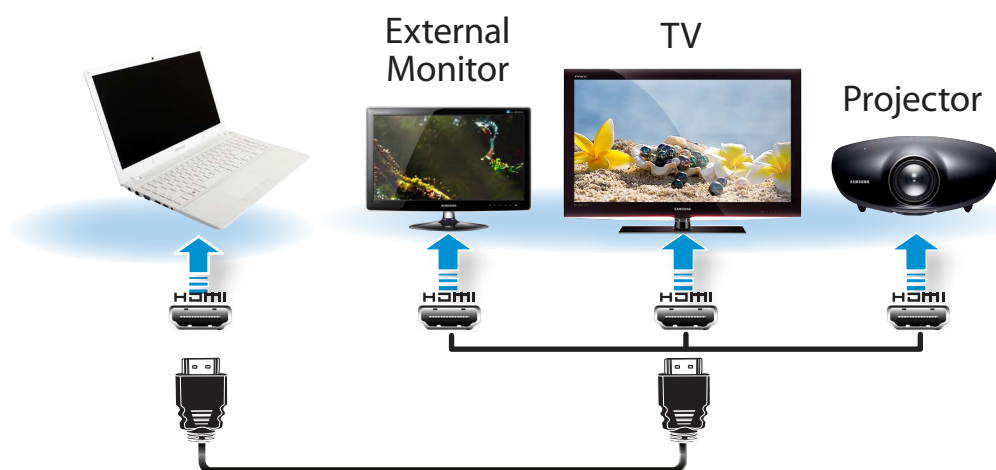
Open the **Display Settings** window in the Control Panel, select **Monitor 2** and select the **Expand to fit to this monitor** checkbox to set dual view. For more detailed information, refer to the Windows online help.

Connecting through the HDMI port (Optional)

By connecting the computer to a TV with a HDMI port, you can enjoy both a high visual quality and a high sound quality.





After connecting a TV through HDMI, you have to configure the screen and sound.

- 1 Connect the HDMI cable to the HDMI port of the TV.



- This is only supported for models that support a TV output port (HDMI).
- When a TV provides more than one HDMI port, connect the computer to the **DVI IN** port.
- When connecting the computer to a TV, switch the external input mode of the TV to **HDMI**.

- 2 Select **Charms menu** > **Devices** > **Second Screen**.
Select a desired monitor mode.

	PC Screen only The contents are only displayed on the PC monitor (current device).
	Duplicate The contents of the current device are displayed on the external device as well.
	Extend The screen of the current device is expanded to the external device.
	Second screen Only The contents are displayed only on the screen of the external device.

- External Monitor / TV is not supported in the DOS Command Prompt window.
- Simultaneous output to all 3 (LCD + CRT + HDMI) is not supported.

Using NVIDIA graphics more efficiently (optional)

NVIDIA Optimus is a function that enables automatic selection and usage of the internal or external graphics chipsets depending on the currently running software.

For example, the internal graphics chipset can be used for Internet surfing or word processing to minimize battery power consumption and the high-performance external graphics graphic chipset can be used for gaming or video processing to deliver a more realistic experience.



- The NVIDIA Optimus model supports Windows 8 only.
- This function is only available in models that support the NVIDIA Optimus technology.

Registering programs to be executed by the external graphics chipset

To run a program using the external graphics graphic chipset, you have to register the program in the NVIDIA Panel.

Some programs are pre-registered. To register more programs (e.g. 3D games, etc.), complete the following steps.

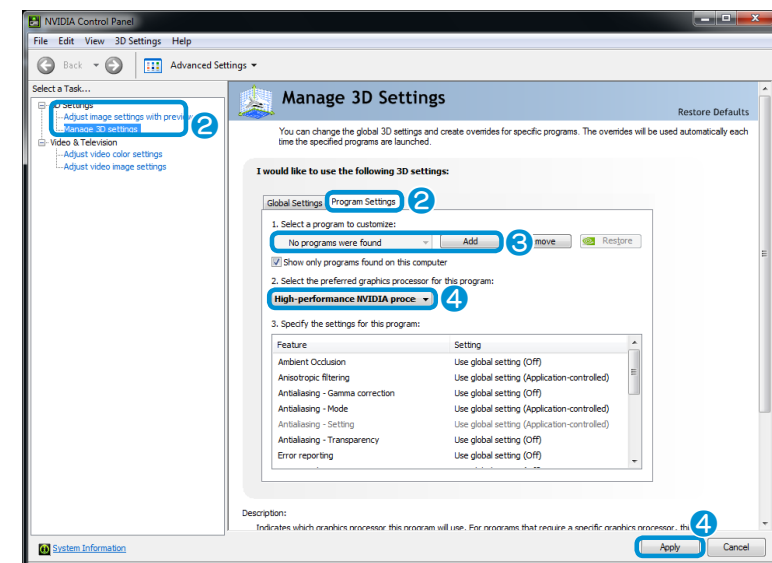
- 1 Right-click over the Desktop and select **NVIDIA Panel**.
- 2 Select **3D Settings > Manage 3D settings** in the left pane and select the **Program Settings** tab.

- 3 In the **Select a program to customize(S)** field, click the **Add** button to register the software.



You can register executable files (EXE) only.

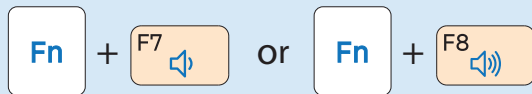
- 4 In the **Select the preferred graphics processor for this program (O)** field, select **High-performance NVIDIA processor** and click the **Apply** button.



- 5 The program has been registered. When you run the registered program, the program is executed using the external graphics chipset without requiring additional configuration.

You can adjust the volume using the keyboard and the volume control program.

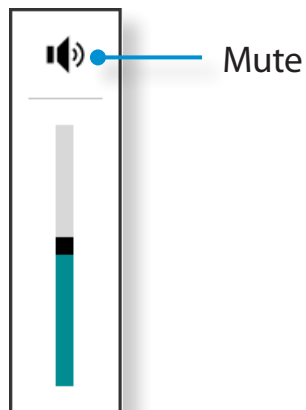
Adjusting the Volume using the Keyboard



Alternatively, press the **Fn** + **F6** (with a speaker icon and a plus sign) key combination to turn the volume on or off.

Adjusting the Volume using the Volume Adjustment Program

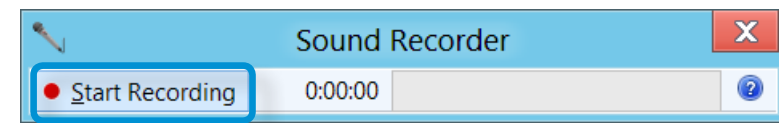
Click the **Charms menu** > **Settings** > to adjust the control bar.



Using the Sound Recorder

The procedures to record sound using the Windows Recorder are described below.

- 1 Connect a microphone to the microphone jack.
You can also use the internal MIC.
- 2 Right-click over the **Volume** icon on the taskbar and select **Recording Device**.
- 3 Check if the microphone is set as the default recording device.
If this is the case, it is already set as the default device. If not, right-click over the microphone and select **Set default**.
- 4 Right-click over the **Charms** menu > **Start** to click **All Apps** > **Sound Recorder**. Then press **Start Recording** to record.



Using SoundAlive

The SoundAlive function enables you to experience more stereophonic sound using stereo speakers.



- SoundAlive is only supported in Windows 8.
- The software programs provider may vary, depending on your computer model.
- In addition, some pictures may differ from actual product depending on the computer model and software version.

1 Right-click over the **Volume**  in the taskbar on the Desktop and click **Play Device**.

(Alternatively, click the **Charms menu** on the **Desktop** > **Settings**  > **Control Panel** > **Hardware and Sound** > **Sound**.)



2 Right-click over the **Speakers** and select **Properties**.

3 Select the **SoundAlive** tab and select one of the modes.



The screen brightness is automatically set to the brightest level when AC power is connected and the brightness is automatically set dimmer when the computer runs on battery power to extend the battery use time.

Controlling the Brightness Using the Keyboard

- 1 Click the **Charms menu** > **Settings**  > **Screen Adjustment icon**  .
- 2 Adjust the brightness with the screen brightness control bar.



• **Saving battery power consumption**

Decreases the LCD brightness when the computer is running on battery power to save battery power consumption.

• **LCD bad pixels principle of computer**

Samsung observes the specifications regarding strict quality and reliability of LCD. But in spite of that, it is inevitable that there might be a small number of bad pixels. A large number of bad pixels can cause problems in appearance, but a small number of pixels doesn't affect the computer performance.

Therefore Samsung observes and manages the following dot principles:

- Bright dot : 2 or less
- Black dot : 4 or less
- Combination of Bright and Dark : 4 or less



Instructions for Cleaning the LCD

Clean the LCD panel with a soft cloth lightly moistened with computer cleansing detergent moving in one direction.

Cleaning the LCD panel with excessive force can damage the LCD.