

SAMSUNG

USER MANUAL

UHD TV 8 SERIES

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance.

Product design and specifications may be changed without notice.

Before Reading This User Manual

This TV comes with this user manual and an embedded e-Manual.
Before reading this user manual, review the following:

	User Manual	Read this provided user manual to see information about product safety, installation, accessories, initial configuration, and product specifications.
	e-Manual	For more information about this TV, read the e-Manual embedded in the product. To open the e-Manual,  >  Settings > Support > Open e-Manual

Warning! Important Safety Instructions

Please read the Safety Instructions before using your TV.

CAUTION			Class II product: This symbol indicates that a safety connection to electrical earth (ground) is not required.
RISK OF ELECTRIC SHOCK. DO NOT OPEN.			
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.			AC voltage: Rated voltage marked with this symbol is AC voltage.
		This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.	
	This symbol indicates that this product has included important literature concerning operation and maintenance.		Caution. Consult instructions for use: This symbol instructs the user to consult the user manual for further safety related information.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus and to protect it from overheating, these slots and openings must never be blocked or covered.
 - Do not place this apparatus in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.
 - Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
 - Do not place vessels (vases etc.) containing water on this apparatus, as this can result in a fire or electric shock.
- Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately.
- This apparatus uses batteries. In your community, there might be environmental regulations that require you to dispose of these batteries properly. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords, or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be placed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at the plug end, at wall outlets, and at the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure that the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. This may cause a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Be sure to plug in the power cord until it is firmly seated. When unplugging the power cord from a wall outlet, always pull on the power cord's plug. Never unplug it by pulling on the power cord. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact a service center.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly, or disabled people will be left alone in the house).
 - Accumulated dust can cause an electric shock, an electric leakage, or a fire by causing the power cord to generate sparks and heat or by causing the insulation to deteriorate.
- Be sure to contact a service center for information if you intend to install your TV in a location with heavy dust, high or low temperatures, high humidity, chemical substances, or where it will operate 24 hours a day such as in an airport, a train station, etc. Failure to do so may lead to serious damage to your TV.

- Use only a properly grounded plug and wall outlet.
 - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To turn off this apparatus completely, disconnect it from the wall outlet. To ensure you can unplug this apparatus quickly if necessary, make sure that the wall outlet and power plug are readily accessible.
- Store the accessories (batteries, etc.) in a location safely out of the reach of children.
- Do not drop or strike the product. If the product is damaged, disconnect the power cord and contact a service center.
- To clean this apparatus, unplug the power cord from the wall outlet and wipe the product with a soft, dry cloth. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air fresheners, lubricants, or detergents. These chemicals can damage the appearance of the TV or erase the printing on the product.
- Do not expose this apparatus to dripping or splashing.
- Do not dispose of batteries in a fire.
- Do not short-circuit, disassemble, or overheat the batteries.
- There is danger of an explosion if you replace the batteries used in the remote with the wrong type of battery. Replace only with the same or equivalent type.
- WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES AND OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.
- Use care when touching the TV after it has been on for some time. Some parts can be warm to the touch.
- State of California Proposition 65 Warning
 - WARNING - This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Internet security

Samsung takes a number of steps to protect its Internet-compatible Smart TVs against unauthorized incursions and hacking. For example, certain sensitive communications between the TV and the Internet servers are encrypted. In addition, the TV's operating system has adopted controls to prevent the installation of unauthorized applications. Although we take steps to protect your Smart TV and personal information, no Internet-connected device or transmission is completely secure. We therefore encourage you to take additional steps to safeguard your TV, secure your Internet connection, and minimize the risk of unauthorized access. These steps are listed below:

- When Samsung releases software updates to improve the security of your TV, you should promptly install these updates. To automatically receive these updates, turn on **Auto Update** in the TV's menu ( >  Settings > Support > Software Update > Auto Update). When an update is available, a popup message appears on the TV screen. Accept the software download and update by selecting YES when prompted. Take steps to secure your wireless router and network. Your router's manual should provide additional details about how to implement the following measures:
 - Secure your wireless router's management settings with a unique password to prevent unauthorized changes to security related settings.
 - Implement standard encryption (e.g., WPA2 encryption) on your wireless router to secure your wireless network signal.
 - Secure access to your wireless network with a hard-to-guess password.
 - Confirm your router's firewall setting is enabled (if so equipped).
 - Make sure that all your Internet-connected devices are behind your network's firewall.
 - If your router or modem has a standby mode button, use it to disconnect your home network from the Internet when it is not in use.
- Use strong passwords for all your Internet accounts (Netflix, Facebook, etc.). If your TV has a camera, recess the camera into the TV's bezel when it is not in use. Recessing the camera makes it inoperative.
- If any unexpected messages appear on your TV screen requesting permission to link a device or enable a remote session, do NOT accept.
- Do not visit suspicious web sites and do not install any suspicious programs. We recommend that users install only those authorized apps provided by Samsung through Samsung Smart Hub.

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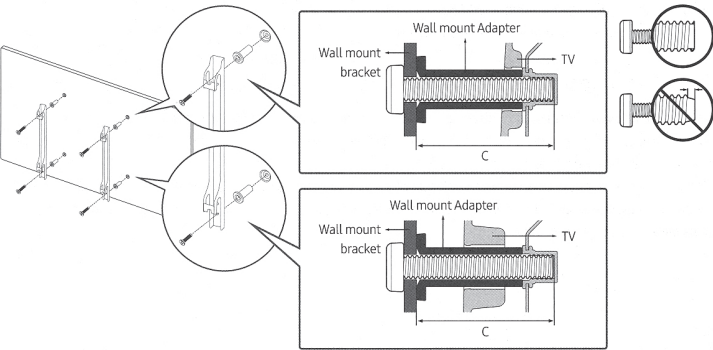
01 TV Installation

Mounting the TV on a wall

- If you mount this TV on a wall, follow the instructions exactly as set out by the manufacturer. Unless it is correctly mounted, the TV may slide or fall and cause serious injury to a child or adult and serious damage to the TV.

For models providing wall mount adapters, install them as shown in the figure below before installing the wall mount kit.

- Refer to the installation manual included with the Samsung wall mount kit.



- Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you choose to install the wall mount on your own.
- You can install your wall mount on a solid wall perpendicular to the floor. Before attaching the wall mount to surfaces other than plaster board, contact your nearest dealer for additional information. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.
- When installing a wall mount kit, we recommend you fasten all four VESA screws.
- If you want to install a wall mount kit that attaches to the wall using two top screws only, be sure to use a Samsung wall mount kit that supports this type of installation. (You may not be able to purchase this type of wall mount kit, depending on the geographical region.)

- Standard dimensions for wall mount kits are shown in the table below.
- If you are installing a third-party wall mount, note that the length of the screws you can use to attach the TV to the wall mount is shown in column C in the table below.

TV size in inches	VESA screw hole specs (A * B) in millimeters	C (mm)	Standard Screw	Pitch (mm)	Quantity
49-55	200 x 200	43-45	M8	1.25	4
65-75	400 x 400				
82	600 x 400				

- Do not install your wall mount kit while your TV is turned on. This may result in personal injury from electric shock.

- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or when the consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt.
- Always have two people mount the TV onto a wall.

Providing proper ventilation for your TV

When you install your TV, maintain a distance of at least 4 inches between the TV and other objects (walls, cabinet sides, etc.) to ensure proper ventilation. Failing to maintain proper ventilation may result in a fire or a problem with the product caused by an increase in its internal temperature. When you install your TV with a stand or a wall mount, we strongly recommend you use parts provided by Samsung Electronics only. Using parts provided by another manufacturer may cause difficulties with the product or result in injury caused by the product falling.

Safety Precaution: Securing the TV to the wall to prevent falling

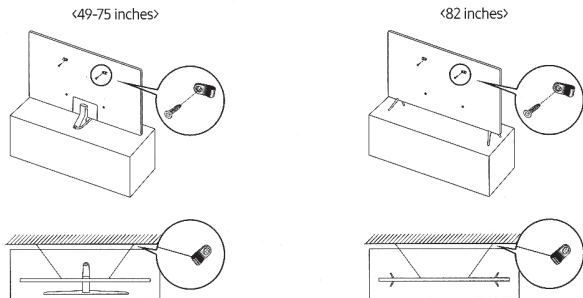
- Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang on or destabilize the TV. This action may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided in the Safety Flyer included with your TV. For added stability and safety, you can purchase and install the anti-fall device as described below.

- WARNING: Never place a television set in an unstable location. The television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as

- Using cabinets or stands recommended by the manufacturer of the television set.
 - Only using furniture that can safely support the television set.
 - Ensuring the television set is not overhanging the edge of the supporting furniture.
 - Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
 - Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
 - Educating children about the dangers of climbing on furniture to reach the television set or its controls.
- If you are retaining and relocating the television set that you are replacing with this new set, you should apply the same precautions to the old set.
- When you have to relocate or lift the TV for replacement or cleaning, be sure not to pull out the stand.

Preventing the TV from falling

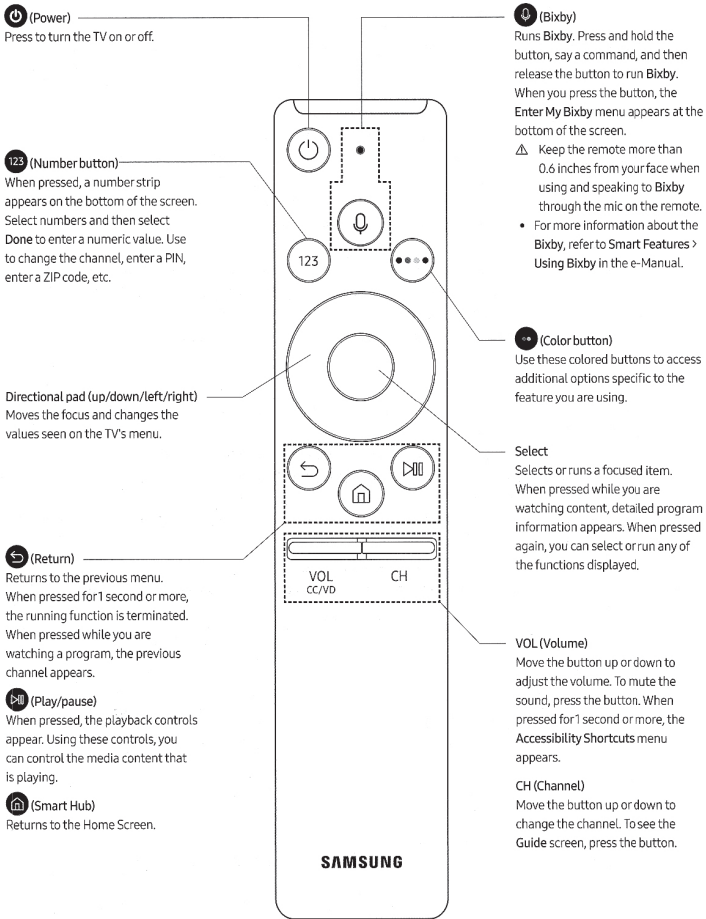
- Using the appropriate screws, firmly fasten a set of brackets to the wall. Confirm that the screws are firmly attached to the wall.
 - You may need additional material such as wall anchors depending on the type of wall.
- Using the appropriately sized screws, firmly fasten a set of brackets to the TV.
 - For the screw specifications, refer to "Standard Screw".
- Connect the brackets fixed to the TV and the brackets fixed to the wall with a durable, heavy-duty string, and then tie the string tightly.
 - Install the TV near the wall so that it does not fall backwards.
 - Connect the string so that the brackets fixed to the wall are at the same height as or lower than the brackets fixed to the TV.



02 The Samsung Smart Remote

About the Buttons on the Samsung Smart Remote

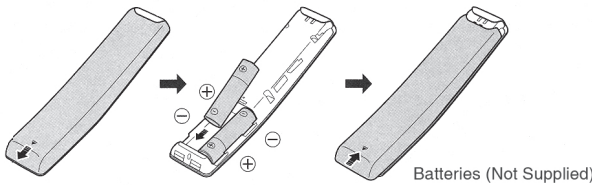
- The images, buttons, and functions of the Samsung Smart Remote may differ depending on the model.



Pairing the TV to the Samsung Smart Remote

- When you turn on the TV for the first time, the Samsung Smart Remote pairs to the TV automatically. If the Samsung Smart Remote does not pair to the TV automatically, point it at the remote control sensor of the TV, and then press and hold the buttons labeled  and  as shown in the figure on the left simultaneously for 3 seconds or more.

Installing batteries into the Samsung Smart Remote



To install the batteries, push the rear cover open in the direction of the arrow in the illustration on the left, and then insert the batteries as shown in the figure. Make sure that the positive and negative ends are facing in the correct direction.

- Alkaline batteries are recommended for longer battery life.

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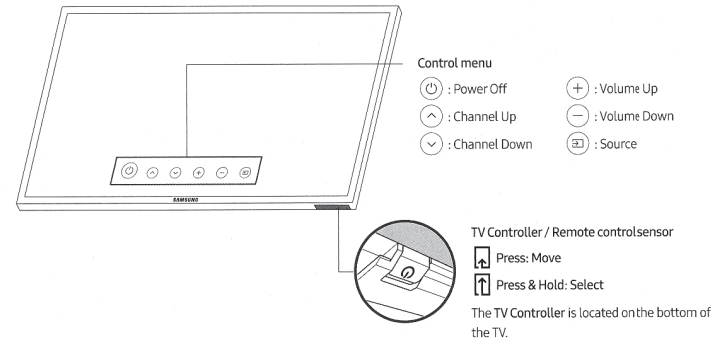
03 Initial Setup

When you turn on your TV for the first time, it immediately starts the Initial Setup. Follow the instructions displayed on the screen and configure the TV's basic settings to suit your viewing environment.

- Noise may occur temporarily when the TV communicates with mobile devices.

Using the TV Controller

You can turn on the TV with the **TV Controller** button at the bottom of the TV, and then use the **Control** menu. The **Control** menu appears when the **TV Controller** is pressed while the TV is On. For more information about ts usage, refer to the figure below.



04 Troubleshooting and Maintenance

Troubleshooting

If the TV seems to have a problem, first review this list of possible problems and solutions. Alternatively, review the Troubleshooting Section in the e-Manual.

- For detailed information on troubleshooting, watch the troubleshooting videos at www.samsung.com/spsn.
- This TFT LED panel is made up of sub pixels which require sophisticated technology to produce. There may be, however, a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.
- To keep your TV in optimum condition, upgrade to the latest software. Use the **Update Now** or **Auto Update** functions on the TV's menu (🏠) > ⚙️ **Settings** > **Support** > **Software Update** > **Update Now** or **Auto Update**).

The TV won't turn on.

- Make sure that the AC power cord is securely plugged in to the TV and the wall outlet.
- Make sure that the wall outlet is working and the power indicator on the TV is lit and glowing a solid red.
- Try pressing the Power button on the TV to make sure that the problem is not with the remote control. If the TV turns on, refer to "Remote control does not work" below.

There is no picture/video/sound, or a distorted picture/video/sound from an external device, or "Weak or No Signal" is displayed on the TV, or you cannot find a channel.

- Make sure the connection to the device is correct and that all cables are fully inserted.
- Remove and reconnect all cables connected to the TV and the external devices. Try new cables if possible.
- Confirm that the correct input source has been selected (🏠) > **Source**).
- Perform a TV self diagnosis to determine if the problem is caused by the TV or the device (🏠) > ⚙️ **Settings** > **Support** > **Self Diagnosis** > **Start Picture Test** or **Start Sound Test**).
- If the test results are normal, reboot the connected devices by unplugging each device's power cord and then plugging it in again. If the issue persists, refer to the connection guide in the user manual of the connected device.
- If you are not using a cable or satellite box, and your TV is receiving TV signals from an antenna or a cable wall connector, run **Auto Program** to search for channels (🏠) > ⚙️ **Settings** > **Broadcasting** > **Auto Program**).

The remote control does not work.

- Check if the power indicator on the TV blinks when you press the remote's Power button. If it does not, replace the remote control's batteries.
- Make sure that the batteries are installed with their poles (+/-) in the correct direction.
- Try pointing the remote directly at the TV from 5 ft. to 6 ft. (1.5~1.8 m) away.
- If your TV came with a Samsung Smart Remote (Bluetooth Remote), make sure to pair the remote to the TV.

The cable or satellite box remote control doesn't turn the TV on or off or adjust the volume.

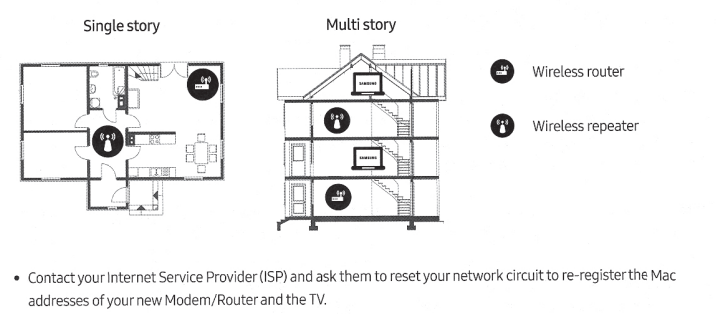
- Program the cable or satellite box remote control to operate the TV. Refer to the cable or satellite box user manual for the SAMSUNG TV code.

The TV settings are lost after 5 minutes.

- The TV is in the **Retail Mode**. Change the **Usage Mode** in the **System Manager** Menu to **Home Mode** (🏠) > ⚙️ **Settings** > **General** > **System Manager** > **Usage Mode** > **Home Mode**).

Intermittent Wi-Fi

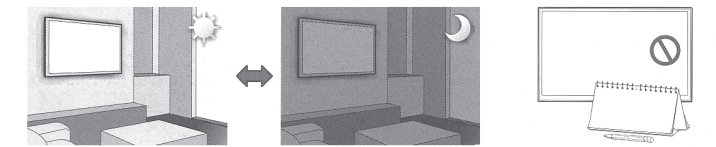
- Make sure the TV has a network connection (🏠) > ⚙️ **Settings** > **General** > **Network** > **Network Status**).
- Make sure the Wi-Fi password is entered correctly.
- Check the distance between the TV and the Modem/Router. The distance should not exceed 50 ft (15.2 m).
- Reduce interference by not using or turning off wireless devices. Also, verify that there are no obstacles between the TV and the Modem/Router. (The Wi-Fi strength can be decreased by appliances, cordless phones, stone walls/ fireplaces, etc.)



Video App problems (Youtube etc)

- Change the DNS to 8.8.8.8. Select (🏠) > ⚙️ **Settings** > **General** > **Network** > **Network Status** > **IP Settings** > **DNS Setting** > **Enter manually** > **DNS Server** > enter 8.8.8.8 > **OK**.
- Reset by selecting (🏠) > ⚙️ **Settings** > **Support** > **Self Diagnosis** > **Reset Smart Hub**.

Eco Sensor and screen brightness



Eco Sensor adjusts the brightness of the TV automatically. This feature measures the light in your room and optimizes the brightness of the TV automatically to reduce power consumption. If you want to turn this off, go to (🏠) > ⚙️ **Settings** > **General** > **Eco Solution** > **Ambient Light Detection**.

- If the screen is too dark while you are watching TV in a dark environment, it may be due to the **Ambient Light Detection** function.
- The eco sensor is located at the bottom of the TV. Do not block the sensor with any object. This can decrease picture brightness.

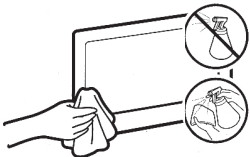
Still image warning

Avoid displaying still images (such as jpeg picture files), still image elements (such as TV channel logos, stock or news crawls at the screen bottom etc.), or programs in panorama or 4:3 image format on the screen. If you constantly display still pictures, it can cause image burn-in on the LED screen and affect image quality. To reduce the risk of this adverse effect, please follow the recommendations below:

- Avoid displaying the same TV channel for long periods.
- Always try to display any image in full screen. Use the picture format menu of the TV for the best possible match.
- Reduce brightness and contrast to avoid the appearance of after-images.
- Use all TV features designed to reduce image retention and screen burn. Refer to the e-Manual for details.

Caring for the TV

- If a sticker was attached to the TV screen, some debris can remain after you remove the sticker. Please clean the debris off before watching TV.
- The exterior and screen of the TV can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using a soft cloth to prevent scratches.
- Do not spray water or any liquid directly onto the TV. Any liquid that goes into the product may cause a failure, fire, or electric shock.
- To clean the screen, turn off the TV, then gently wipe away smudges and fingerprints on the panel with a micro-fiber cloth. Clean the body or panel of the TV with a micro-fiber cloth dampened with a small amount of water. After that, remove the moisture with a dry cloth. While cleaning, do not apply strong force to the surface of the panel because it can damage the panel. Never use flammable liquids (benzene, thinner, etc.) or a cleaning agent. For stubborn smudges, spray a small amount of screen cleaner on a micro-fiber cloth, and then use the cloth to wipe away the smudges.



05 Specifications and Other Information

Specifications

Model Name	UN49NU8000 / UN49NU800D	UN55NU8000 / UN55NU800D
Display Resolution	3840 x 2160	3840 x 2160
Screen Size		
Diagonal	49" Class	55" Class
Measured Diagonally	48.5 inches	54.6 inches
Sound (Output)	40 W	40 W
Dimensions (W x H x D)		
Body	43.0 x 25.0 x 2.2 inches (1091.6 x 634.6 x 54.9 mm)	48.3 x 28.0 x 2.2 inches (12271 x 710.7 x 54.9 mm)
With stand	43.0 x 28.0 x 11.8 inches (1091.6 x 711.0 x 299.7 mm)	48.3 x 31.0 x 12.7 inches (12271 x 787.1 x 322.0 mm)

Weight		
Without Stand	28.9 lbs (13.1 kg)	37.7 lbs (17.1 kg)
With Stand	33.1 lbs (15.0 kg)	41.7 lbs (18.9 kg)
Model Name	UN65NU8000 / UN65NU800D	UN75NU8000 / UN75NU800D
Display Resolution	3840 x 2160	3840 x 2160
Screen Size		
Diagonal	65" Class	75" Class
Measured Diagonally	64.5 inches	74.5 inches
Sound (Output)	40 W	40 W
Dimensions (W x H x D)		
Body	56.9 x 32.8 x 2.2 inches (1446.3 x 833.8 x 54.9 mm)	65.9 x 38.0 x 2.3 inches (1673.8 x 964.1 x 57.6 mm)
With stand	56.9 x 35.8 x 13.8 inches (1446.3 x 910.1 x 349.8 mm)	65.9 x 41.0 x 14.5 inches (1673.8 x 1040.8 x 369.2 mm)
Weight		
Without Stand	53.4 lbs (24.2 kg)	79.4 lbs (36.0 kg)
With Stand	58.2 lbs (26.4 kg)	87.3 lbs (39.6 kg)

Model Name	UN82NU8000 / UN82NU800D
Display Resolution	3840 x 2160
Screen Size	
Diagonal	82" Class
Measured Diagonally	81.5 inches
Sound (Output)	40 W
Dimensions (W x H x D)	
Body	72.0 x 41.5 x 2.4 inches (1830.0 x 1054.0 x 60.9 mm)
With stand	72.0 x 45.1 x 15.2 inches (1830.0 x 1144.6 x 387.2 mm)
Weight	
Without Stand	98.1 lbs (44.5 kg)
With Stand	100.8 lbs (45.7 kg)

Environmental Considerations

Operating Temperature	50°F to 104°F (10°C to 40°C)
Operating Humidity	10% to 80%, non-condensing
Storage Temperature	-4°F to 113°F (-20°C to 45°C)
Storage Humidity	5% to 95%, non-condensing

Notes

- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- For information about the power supply, and more information about power consumption, refer to the information on the label attached to the product.
 - On most models, the label is attached to the back of the TV. (On some models, the label is inside the cover terminal.)
- Typical power consumption is measured according to Energy Star Program requirements for televisions.
- Your TV and its accessories may look different than the product images presented in this manual, depending on the model.
- All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions before installing your TV. Not responsible for typographical or printed errors.
- To connect a LAN cable, use a CAT 7 (*STP type) cable for the connection.
 - * Shielded Twist Pair

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Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

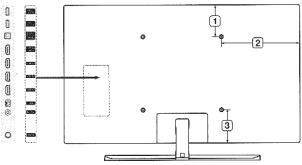
www.samsung.com/recyclingdirect

Decreasing power consumption

When you shut the TV off, it enters Standby mode. In Standby mode, it continues to draw a small amount of power. To decrease power consumption, unplug the power cord when you don't intend to use the TV for a long time.

Dimensions

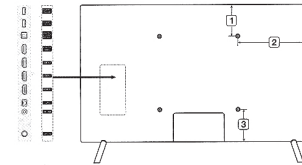
Port panel detail / Rear view



- The displayed image may differ from your TV, depending on the model.

(Unit: inches)

Model name	①	②	③
UN49NU8000 / UN49NU800D	4.8	17.5	11.9
UN55NU8000 / UN55NU800D	7.8	20.1	11.9
UN65NU8000 / UN65NU800D	4.8	20.5	11.9
UN75NU8000 / UN75NU800D	9.9	25.0	11.9



- The displayed image may differ from your TV, depending on the model.

(Unit: inches)

Model name	①	②	③
UN82NU8000 / UN82NU800D	15.1	24.1	10.3

Licenses



The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

FCC Information

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorienting or relocating the receiving antenna.
- Increasing the separation between the equipment and receiver.
- Connecting the radio or TV to an outlet that is on a different circuit than the equipment.
- Consulting the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For products available in the US and Canadian markets, only channels 1~11 are available. You cannot select other channels.

This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated so there is at least 8 inches (20 cm) between the radiator and your body.

IMPORTANT INFORMATION REGARDING TELEVISION FORMAT VIEWING

Wide screen format LED Displays (with 16:9 aspect ratios, the ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen, 16:9 ratio format, or expanded to fill the screen, if your model offers this feature, with the images constantly in motion. Displaying stationary graphics and images on the screen, such as the dark sidebars on non-expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing time per week. Additionally, viewing other stationary images and text such as stock market crawls, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful about the television formats you select and the length of time you view them. Uneven LED aging as a result of format selection and use, as well as burned in images, are not covered by your limited warranty.