

SAMSUNG
Crystal UHD

Please read this manual carefully
before operating your unit and retain
for future reference.

804109823A

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

Learning the e-Manual's assistance functions

	Search	Select an item from the search results to load the corresponding page.
	Index	Select a keyword to navigate to the relevant page.
	Sitemap	It displays the lists for each item in e-Manual.
	Recently Viewed Topics	Select a topic from the list of recently viewed topics.

- Some menu screens cannot be accessed from the e-Manual.

Learning the functions of the buttons that appear on e-Manual topic pages

	Try Now	Allows you to access the corresponding menu item and try out the feature right away.
	Link	Access an underlined topic referred to on an e-Manual page immediately.

Warning! Important Safety Instructions

Please read the Safety Instructions before using your TV.
Refer to the table below for an explanation of symbols which may be on your Samsung product.

CAUTION		Class II product: This symbol indicates that a safety connection to electrical earth (ground) is not required. If this symbol is not present on a product with a power cord, the product MUST have a reliable connection to protective earth (ground).
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.
		DC voltage: Rated voltage marked with this symbol is DC voltage.
		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 a service center.
- 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.

USER MANUAL
7 SERIES



- 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 plugging in the AC power cord of the TV, make sure that the operational voltage of the TV matches the voltage of your local electrical power supply. Refer to the power specifications section of the manual and/or the power supply label on the product for voltage and amperage information.
- Never insert anything metallic into the open parts of this apparatus. This may cause 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 going 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.
- CAUTION: 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: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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:

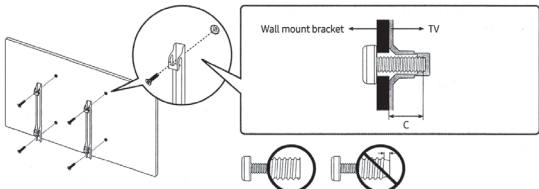
- When Samsung releases software updates to improve the security of your TV, you should promptly install these updates. To automatically receive these updates, turn on **Auto Update** in the TV's menu (> Settings > Support > **Software Update** > **Auto Update**). When an update is available, a popup message appears on the TV screen. Accept the software download and update by selecting **Yes** when prompted. Take steps to secure your wireless access point and network. Your access point's manual should provide additional details about how to implement the following measures:
 - Secure your wireless access point'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 access point to secure your wireless network signal.
 - Secure access to your wireless network with a hard-to-guess password.
 - Confirm your access point's firewall setting is enabled (if so equipped).
 - Make sure that all your Internet-connected devices are behind your network's firewall.
 - If your access point 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 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.

Figures and illustrations in this User Manual are provided for reference only and may differ from the actual product appearance. Product design and specifications may change without notice.

01 TV Installation

Mounting the TV on a wall (Wall mount kit not supplied)

- If you mount this TV on a wall, follow the instructions exactly as set out by the manufacturer. If it is not correctly mounted, the TV may slide or fall and cause serious injury to a child or adult and serious damage to the TV.
- Refer to the installation manual included with the Samsung wall mount kit.
- You can mount the TV on the wall using a wall mount kit (sold separately).



- 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	
43-55	200 x 200	20-22	M8	1.25	4	
58-70	400 x 300					
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 (10 cm) 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.

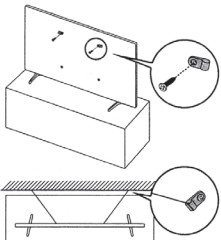
Safety Precaution: Securing the TV to the wall to prevent falling

- 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-tip 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:
 - Always use cabinets or stands or mounting methods recommended by Samsung.
 - Always use furniture that can safely support the television set.
 - Always ensure the television set is not overhanging the edge of the supporting furniture.
 - Always educate children about the dangers of climbing on furniture to reach the television set or its controls.
 - Always route cords and cables connected to your television so they cannot be tripped over, pulled or grabbed.
 - Never place a television set in an unstable location.
 - Never place the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
 - Never place the television set on cloth or other materials that may be located between the television set and supporting furniture.

- Never place items that might tempt children to climb, such as toys and remote controls, on the top of the television or furniture on which the television is placed.
- If the existing television set is going to be retained and relocated, the same considerations as above should be applied.

Preventing the TV from falling

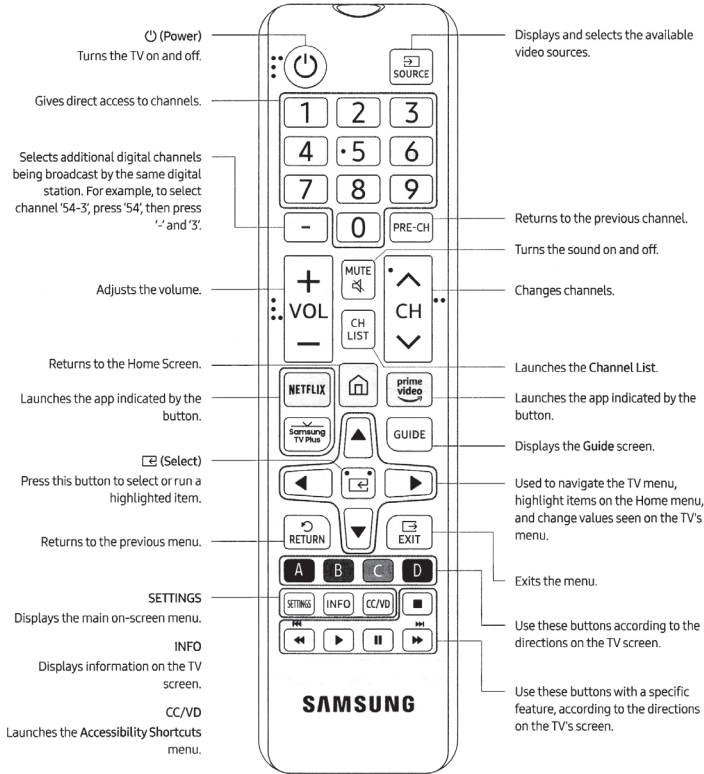
- Using the appropriate screws, firmly fasten a set of brackets to the wall. Confirm that the screws are firmly attached to the wall.
 - You may need additional material such as wall anchors depending on the type of wall.
- Using the appropriately sized screws, firmly fasten a set of brackets to the 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 Remote Control

About the Buttons on the Remote Control

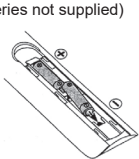
- The images, buttons, and functions of the remote control may differ depending on the model.
- The remote control has Braille points on the Power, Channel, Volume, and Select buttons and can be used by visually impaired persons.
- If you use the remote control that comes with your TV to control another TV, some functions may not operate normally.



Installing batteries into the remote control

Match the polarity of the batteries to the symbols in the battery compartment.

- Use the remote control within 23 feet (7 m) of the TV.
- Bright light may affect the performance of the remote control. Avoid using near bright fluorescent lights or neon signs.
- The color and shape of the remote may vary depending on the model.



03 Initial Setup

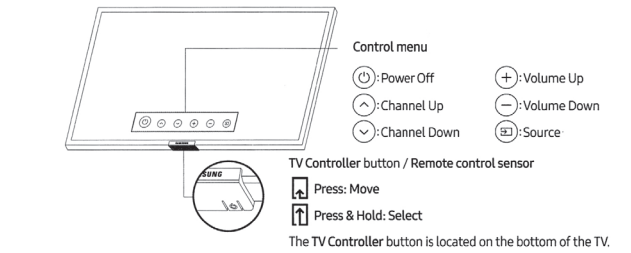
When you turn on your TV for the first time, it immediately starts the Initial Setup. Follow the instructions displayed on the screen and configure the TV's basic settings to suit your viewing environment.

- To perform the Initial Setup using the SmartThings app, you must connect your mobile device via Wi-Fi.
- If the pop-up for setup does not appear automatically in the SmartThings app on your mobile device, manually add the TV using Add Device on the dashboard of the SmartThings app, and then continue with the set up process.
- The SmartThings app is available for mobile devices running Android 6.0 or higher or iOS 10 or higher.
- 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 button is pressed while the TV is On. For more information about its usage, refer to the figure below.

- The screen may dim if the protective film on the SAMSUNG logo or the bottom of the TV is not removed. Please remove the protective film.



*Note: The image shown here is for illustrative purposes only and may be subject to change. The actual number of ports and their locations may vary, depending on the model.

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 or FAQ 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 (Home) > 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 at the bottom of the TV is lit and glowing a solid red.
- Try pressing the TV Controller button at the bottom of the TV to make sure that the problem is not with the remote control. If the TV turns on, refer to "The 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.

- Perform a TV self diagnosis to determine if the problem is caused by the TV or the device (Home) > Settings > Support > Device Care > Self Diagnosis > Picture Test or Sound Test).
- If the test results are normal, 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 and confirm that the correct input source has been selected (Home) > Source).
- 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 box 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 (Home) > Settings > Broadcasting > Auto Program).

The remote control does not work.

- Check if the power indicator at the bottom of 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.

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

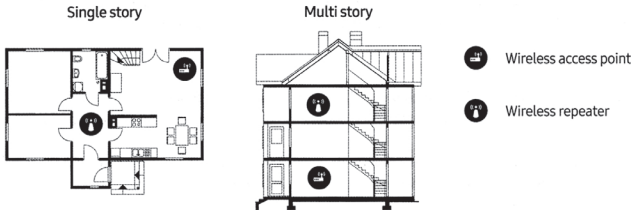
- Program the cable box or satellite box remote control to operate the TV. Refer to the cable box or satellite box user manual for the SAMSUNG TV code.

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 (Home) > Settings > General > System Manager > Usage Mode > Home Mode).

Intermittent Wi-Fi

- Make sure the TV has a network connection (Home) > Settings > General > Network > Network Status).
- Make sure the Wi-Fi password is entered correctly.
- Check the distance between the TV and the modem or access point. 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 or access point. (The Wi-Fi strength can be decreased by appliances, cordless phones, stone walls/fireplaces, etc.)

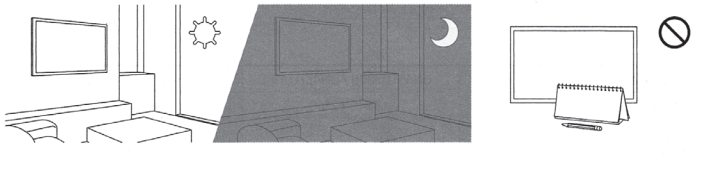


- Contact your Internet Service Provider (ISP) and ask them to reset your network circuit to re-register the MAC addresses of your new modem or access point and the TV.

Video App problems (Youtube etc)

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

Eco Sensor and screen brightness

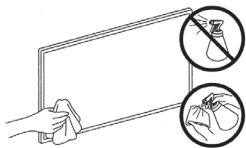


Eco Sensor adjusts the brightness of the TV automatically. This feature measures the light in your room and optimizes the brightness of the TV automatically to reduce power consumption. If you want to turn this off, go to (Home) > Settings > General > Eco Solution > Ambient Light Detection.

- 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.

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	UN43TU7000 / UN43TU700D	UN50TU7000 / UN50TU700D
Display Resolution	3840 x 2160	3840 x 2160
Screen Size		
Diagonal	43" Class	50" Class
Measured Diagonally	42.5 inches	49.5 inches
Sound (Output)	20 W	20 W
Dimensions (W x H x D)		
Body	37.9 x 22.0 x 2.3 inches (963.9 x 558.9 x 59.6 mm)	44.0 x 25.4 x 2.4 inches (1116.8 x 644.2 x 59.9 mm)
With Stand	37.9 x 24.8 x 7.9 inches (963.9 x 628.9 x 200.5 mm)	44.0 x 28.1 x 9.8 inches (1116.8 x 713.6 x 249.7 mm)
Weight		
Without Stand	17.9 lbs (8.1 kg)	25.1 lbs (11.4 kg)
With Stand	18.3 lbs (8.3 kg)	25.6 lbs (11.6 kg)
Model Name	UN55TU7000 / UN55TU700D	UN58TU7000 / UN58TU700D
Display Resolution	3840 x 2160	3840 x 2160
Screen Size		
Diagonal	55" Class	58" Class
Measured Diagonally	54.6 inches	57.5 inches
Sound (Output)	20 W	20 W
Dimensions (W x H x D)		
Body	48.4 x 27.8 x 2.4 inches (1230.5 x 707.2 x 59.9 mm)	50.8 x 29.5 x 2.4 inches (1291.0 x 748.6 x 59.9 mm)
With Stand	48.4 x 30.6 x 9.8 inches (1230.5 x 778.3 x 249.7 mm)	50.8 x 32.3 x 9.8 inches (1291.0 x 819.4 x 249.7 mm)
Weight		
Without Stand	30.6 lbs (13.9 kg)	33.5 lbs (15.2 kg)
With Stand	31.3 lbs (14.2 kg)	34.0 lbs (15.4 kg)

Model Name	UN65TU7000 / UN65TU700D	UN70TU7000 / UN70TU700D
Display Resolution	3840 x 2160	3840 x 2160
Screen Size		
Diagonal	65" Class	70" Class
Measured Diagonally	64.5 inches	69.5 inches
Sound (Output)	20 W	20 W
Dimensions (W x H x D)		
Body	57.1 x 32.7 x 2.4 inches (1449.4 x 830.3 x 59.9 mm)	61.9 x 34.4 x 2.4 inches (1572.4 x 874.5 x 59.9 mm)
With Stand	57.1 x 35.6 x 11.2 inches (1449.4 x 905.2 x 283.5 mm)	61.9 x 37.8 x 13.4 inches (1572.4 x 959.0 x 339.9 mm)
Weight		
Without Stand	45.4 lbs (20.6 kg)	53.4 lbs (24.2 kg)
With Stand	46.1 lbs (20.9 kg)	54.5 lbs (24.7 kg)
Model Name	UN75TU7000 / UN75TU700D	UN82TU700D
Display Resolution	3840 x 2160	3840 x 2160
Screen Size		
Diagonal	75" Class	82" Class
Measured Diagonally	74.5 inches	81.5 inches
Sound (Output)	20 W	20 W
Dimensions (W x H x D)		
Body	65.9 x 37.7 x 2.4 inches (1673.2 x 958.2 x 59.9 mm)	72.0 x 41.1 x 2.4 inches (1829.9 x 1045.0 x 59.9 mm)
With Stand	65.9 x 41.1 x 13.4 inches (1673.2 x 1043.0 x 339.9 mm)	72.0 x 45.2 x 15.5 inches (1829.9 x 1148.2 x 393.7 mm)
Weight		
Without Stand	67.0 lbs (30.4 kg)	83.1 lbs (37.7 kg)
With Stand	67.9 lbs (30.8 kg)	85.8 lbs (38.9 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.)
- 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.

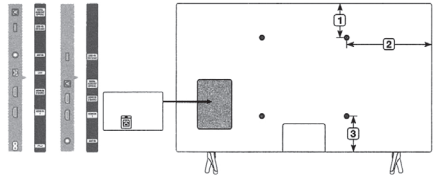
* Shielded Twisted Pair

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

Back panel detail / Rearview



- The displayed image may differ from your TV, depending on the model. (Unit: inches)

Model name	①	②	③
UN43TU7000 / UN43TU700D	3.6	14.9	10.3
UN50TU7000 / UN50TU700D	5.9	17.9	11.5
UN55TU7000 / UN55TU700D	8.1	20.2	11.8
UN58TU7000 / UN58TU700D	5.6	17.4	11.8
UN65TU7000 / UN65TU700D	8.9	20.6	11.9
UN70TU7000 / UN70TU700D	10.7	23.0	11.8
UN75TU7000 / UN75TU700D	9.1	25.0	12.8
UN82TU700D	7.6	24.1	17.7

Licenses



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*The cables mentioned in this manual are not supplied with your unit.

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