

# Simple User Guide

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

## Before Reading This Simple User Guide

This TV comes with this Simple User Guide and an embedded User guide.  
(F6\*\*\*F/H5\*\*\*F:  > left directional button >  Settings > Support > Open User guide)  
(Other models:  > left directional button >  Settings > Support > Tips and User Guides > Open User guide)

## 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                                                                                                                                                               |                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |                                                                                                                                                                                                                                                        |
|                                                                                     | 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.                                                                                                                                        |
|                                                                                    | 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). |
|                                                                                    | 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 Simple User Guide for further safety related information.                                                                                                         |

## Power

- Do not overload wall outlets, extension cords, or adapters beyond their voltage and capacity. It may cause fire or electric shock. Refer to the power specifications section of the manual or the power supply label on the product for voltage and amperage information.
- 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.
- 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.
- To protect this apparatus from a lightning storm, or to leave it unattended and unused for a long time, be sure to unplug it from the wall outlet and disconnect the antenna or cable system.
  - Accumulated dust can cause an electric shock, an electric leakage, or a fire by causing the power cord to generate sparks and heat by causing the insulation to deteriorate.
- 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.

## Installation

- Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Do not place any objects (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 moisture.
- 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.
- Do not expose this apparatus to dripping or splashing.

### Mounting the TV on a wall

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- 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.
- 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.

- 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.
- 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.)
- Do not mount the TV at more than a 15 degree tilt.
- Standard dimensions for wall mount kits are shown in the table on the Unpacking and Installation Guide.

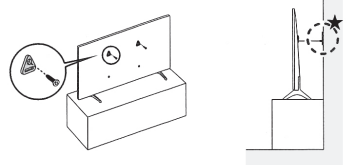
- 
- Do not install your wall mount kit while your TV is turned on. This may result in personal injury from electric shock.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside 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.
  - Always have two people mount the TV onto a wall.
    - For 82 inch or larger models, have four people mount the TV onto a wall.

- Providing proper ventilation for your TV**
- When you install your TV \*and One Connect Box, maintain a distance of at least 4 inches (10 cm) between the TV \*and One Connect Box with 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.
- \*: One Connect Box Supported Model Only
- 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.

| NOTE (One Connect Box not included)                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, 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, refer to "Preventing the TV from falling." |

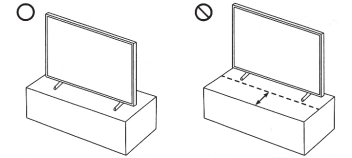
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- WARNING:** Never place a television set in an unstable location. The television set may fall, causing serious personal injury or death. Many injuries can be avoided by taking simple precautions such as:

- 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 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 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.
- 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**
- 
- ★ : Wall-anchor (not supplied)
- 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 the standard screw part in the table on the Unpacking and Installation Guide.
- 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.

- Precautions when installing the TV with a stand**
- (The Frame only)
- When you install the TV with a stand, avoid placing the stand on the back part of the table surface. Failure to do so may cause the motion sensor at the bottom of the TV not to work properly.



## Operation

- 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.
- Store the accessories (remote control, batteries, or etc.) in a location safely out of the reach.
- Do not drop or strike the product. If the product is damaged, disconnect the power cord and contact a service center.
- Do not dispose of remote control or 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.
- After removing the screen protective film, never remove the Polarizing film.
  - If the protective film removal label is not found, the protective film has already been removed.
- WARNING** - Do not use liquid fumigators containing chemicals, such as mosquito repellent or air freshener, around the product.
  - If steam comes in contact with the product surface or enters the product, it may cause stains or malfunction.
- WARNING** - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES AND OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.



## Caring for the TV

- 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.
- 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.

## 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 ( > left directional button >  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 applicable).
    - 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 websites and do not install any suspicious programs. We recommend that users install only those authorized apps provided by Samsung through Samsung Smart Hub.

The images shown in this manual are for illustrative purposes only and may be subject to change.

# 01 Connecting the TV to the One Connect Box

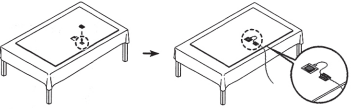
(One Connect Box Supported Model only)

- For more information about how to connect via the One Connect Box, refer to Unpacking and Installation Guide.
- 
- Do not use the One Connect Box in the upside-down or upright position.
  - Take care not to subject the cable to any of the actions below. The One Connect Cable contains a power circuit.



- CLASS 1 LASER PRODUCT (The Frame (LS03FA) only)
- Caution - Invisible laser radiation when open. Do not stare into beam.
    - Do not bend the One Connect Cable excessively. Do not cut the cable.
    - Do not place heavy objects on the cable.
    - Do not disassemble either of the cable connectors.
  - Caution - Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

- Using the One Connect cable holder**
- (S95F, The Frame (LS03FA) only)
- You can use the One Connect cable holder to tidy up the cables while installing the wall mount.



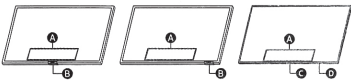
- The image may differ depending on the model.

## 02 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.
- You will need a Samsung Account to access our network-based smart services. If you choose not to log in, you will only get a connection to terrestrial TV (applicable to devices with tuners only) and external devices, e.g. via HDMI.
  - When installing the 43L503F model as a wall mount, it can be installed vertically and used.
    - Some features may not support portrait mode or full screen.
    - The initial setup is optimized for landscape mode.

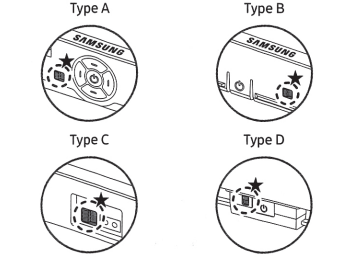
## Using the TV Controller

- 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.
- The position and shape of the buttons at the bottom of the TV may differ depending on the model.
  - The screen may dim if the protective film on the Samsung logo or the bottom of the TV is not removed. If protective film is attached, remove the film.
  - On model LS03FW, the TV Control button / Remote Control Sensor may not be fixed in place and may move. This is not a defect, but part of the design to ensure smooth remote control sensing when a Customizable Frame is installed, which is sold separately.
- To use a mobile remote control, press the power button at the bottom of the TV to turn it on, and scan the QR code displayed on the screen.



- A** Control menu
  - B** TV Controller button / Remote control sensor / Microphone switch / \*Motion Sensor
  - C** TV Controller button / Remote control sensor
  - D** Microphone switch
- \*: The Frame only

### How to turn on and off the Microphone



- ★ : On/Off Switch
- You can turn on or off the microphone by using the switch at the bottom or rear bottom of the TV. If microphone is turned off, All voice and sound features using microphone are not available.
- This function is supported only in Q8F (except for 32Q8F)/QN7\*F/QN1EF/QN8\*F/QN9\*F/QN9\*\*F/S8\*F/S9\*F/The Frame.
  - The position and shape of the microphone switch may differ depending on the model.
  - During analysis using data from the microphone, the data is not saved.

Note: The cables mentioned in this manual is not supplied with your unit.

Note: The actual number of ports may have a different name or location.

## 03 Troubleshooting and Maintenance

- Troubleshooting**
- For more information, refer to "Troubleshooting" in the User guide.
- (F6\*\*\*F/H5\*\*\*F:  > left directional button >  Settings > Support > Open User guide > Troubleshooting)
- (Other models:  > left directional button >  Settings > Support > Tips and User Guides > Open User guide > Troubleshooting)
- If none of the troubleshooting tips apply, contact a service center.

- This 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 ( > left directional button >  Settings > Support > Software Update > Update Now or Auto Update).

### The TV won't turn on.

- Make sure that the power cord is securely plugged into the product and the wall outlet.
- Make sure that the wall outlet is working and the remote control sensor 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."

### The remote control does not work.

- Check if the remote control sensor at the bottom of the TV blinks when you press the  button on the remote control.
  - H5\*\*\*F/F6\*\*\*F/U7\*\*\*F/U8\*\*\*F/Q6F/Q6F/QEF1: If it does not blink, replace the remote control's batteries. Make sure that the batteries are installed with their poles (+/-) in the correct direction. Alkaline batteries are recommended for longer battery life.
  - Other models: When the remote's battery is discharged, charge the battery using the USB charging port (C-type), or turn over the remote to expose the solar cell to light.
- 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. To pair a Samsung Smart Remote, press the  and  buttons together for 3 seconds.

## Eco Sensor and screen brightness

(except for H5\*\*\*F, F6\*\*\*F)

- 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  > left directional button >  Settings > All Settings > General & Privacy > Power and Energy Saving > Brightness Optimization.
- The eco sensor is located at the bottom of the TV. Do not block the sensor with any object. This can decrease picture brightness.

## 04 Specifications and Other Information

| Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Display Resolution</b><br>QN9**F: 7680 x 4320<br>F6***F: 1920 x 1080<br>H5***F: 1366 x 768<br>Other models: 3840 x 2160                                                                                                                                                                                                                                                                                                                                     |
| <b>Sound (Output)</b><br>H5***F: 10 W<br>F6***F (32"): 10 W, F6***F (40"): 20 W<br>U7***F/U8***F/QEF1/QN1EF/Q6F/Q7F/Q8F/QN7*F/S85F: 20 W<br>QN80FA/QN80FF (100"): 30 W<br>QN80FD/QN85F: 40 W<br>S90F (42"): 20 W, S90F (48"-83"): 40 W<br>QN90F (43"): 20 W, QN90F (50"): 40 W<br>QN90F (55"-115"): 60 W<br>S95F/QN900F: 70 W<br>QN950F: 80 W<br>QN990F (65"-85"): 90 W, QN990F (98"): 120 W<br>LS03FW: 40 W<br>LS03FA (43"-50"): 20 W, LS03FA (55"-65"): 40 W |
| <b>Operating Temperature</b><br>50 °F to 104 °F (10 °C to 40 °C)                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Operating Humidity</b><br>10 % to 80 %, non-condensing                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Temperature</b><br>-4 °F to 113 °F (-20 °C to 45 °C)                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Humidity</b><br>5 % to 95 %, non-condensing                                                                                                                                                                                                                                                                                                                                                                                                         |

- Notes**
- 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.)
    - On One Connect Box models, the label is attached to the bottom of the One Connect Box.
  - To connect a LAN cable, use a CAT 7 (\*STP type) cable for the connection. (100/10 Mbps)
    - \* Shielded Twisted Pair
  - The images and specifications of the Unpacking and Installation Guide may differ from the actual product.

- [QN990F, The Frame (LS03FW) only]
- The operation of this product is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet in the 5.925 - 6.425 GHz band.
  - FCC regulations restrict the operation of this product to indoor use only.
  - Operation of transmitters in the 5.925 - 7125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

- [QN900F, QN950F, S95FD, S90FD, QN90FD, QN85FD only]
- Operation of this product in the 5.925 - 7125 GHz band is prohibited for control of or communications with unmanned aircraft systems.
  - Operation of this product shall be limited to indoor use only.

## 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.

IMPORTANT SAFETY PRECAUTIONS

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

Placing the television on a platform, stand, cabinet, table or other surface which is:

- recommended by Samsung or sold with the product;
- secure and stable;
- sufficiently wider in the base than the base measurement of the television;
- strong and large enough to support the size and weight of the television.

Positioning the television close to the wall to avoid the possibility of the television falling when pushed.

Ensuring your television is installed by an authorized Samsung installer.

Following the instructions for wall mounting in the installation manual and using the mounting equipment supplied by Samsung.

Placing the television toward the back of the furniture or surface on which it is placed.

Ensuring that the television does not hang over the edge of the furniture or surface on which it is placed.

Not hanging anything from or on the television.

Anchoring both the television and the furniture on which it is placed to a suitable support especially in the case of tall furniture, such as cupboards or bookcases which exceed one metre in height. This can be done by using sturdy brackets, safety straps or mounts that are made specifically for flat screen televisions.

Not placing any material between the television and the furniture on which it is placed.

If the furniture on which the television is placed has drawers, cabinets or shelves under the television, taking steps to prevent children from climbing, such as installing safety latches so the doors cannot be opened.

Keeping pets away from the television.

Educating children about the dangers of climbing on furniture to reach the television or its control.

Failure to take these safety precautions may cause the television to fall from the stand or mounting equipment, causing damage or serious injury.

Important Safety Instructions (UL Only)

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings, install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/ac cessories specified by the manufacturer.
12. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



**⚠ WARNING**  
To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

**Ventilation**  
Do not place the apparatus in a rack or bookcase. Ensure that there is adequate ventilation and that you've followed that manufacturer's instructions for mounting and installation.

Regulatory Compliance Statements

Your Samsung product compliance class is marked in the user manual.

USA

**FCC Supplier's Declaration of Conformity**  
**FCC Compliance Statement:**  
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.

**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.

**Class B FCC 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**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 with minimum distance 20cm between the radiator & your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

⚠ WARNING

User must use shielded signal interface cables to maintain FCC compliance for the product.  
Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal or exceeds the monitor voltage rating. For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type(parallel blades) plug cap. For 240 Volt applications use only UL Listed detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap. This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules. (TV broadcast receivers with picture screens 13 inches or larger in diameter models only)  
**(Applicable to tuner-included models only)**  
This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules.

**User Information**  
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult with your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

USA

**CALIFORNIA USA ONLY** (Applicable for networking models only.)  
This Perchlorate warning applies only to primary CRI(Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA "Perchlorate Material - special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate."  
Dispose unwanted electronics through an approved recycler To find the nearest recycling location.  
For battery recycling go to call2recycle.org or call 1-800-822-8837

⚠ **WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.**

[ENERGY STAR]

**ENERGY STAR qualified model only**  
- Your Samsung product is ENERGY STAR qualified in its factory default setting. Change to certain features, settings and functionality in this product can change the power consumption, possibly beyond the limits required for ENERGY STAR qualification.

- Environmental Protection Agency and Department of Energy. ENERGY STAR is a joint program of the Government agencies, designed to promote energy efficient products and practices.

Refer to www.energystar.gov for more information of the ENERGY STAR Program.

- **ENERGY STAR qualified model only**  
**(Applicable to Thin Client models only)**  
As an ENERGY STAR® Partner, SAMSUNG has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.
- The ENERGY STAR Program has been to reduced greenhouse gas emissions and save energy through voluntary labeling.
- Power management setting of this product have been enabled by default, and have various timing setting from 1 minutes to 5 hours.
- The product can wake with a button press on the chassis from sleep mode.
- **ENERGY STAR qualified model only (The other models)**  
- As an ENERGY STAR Partner, Samsung has determined that this product or product models meets the ENERGY STAR guideline for energy efficiency.

[World Wide]

For the One Connect or One Connect Mini supported models, when the TV is connected to an external device such as a DVD/BD player or a set-top box via HDMI, power sync mode will be automatically activated. In this power sync mode, TV continues to detect and connect external devices via HDMI cable. This function can be deactivated by removing HDMI cable of connected device.

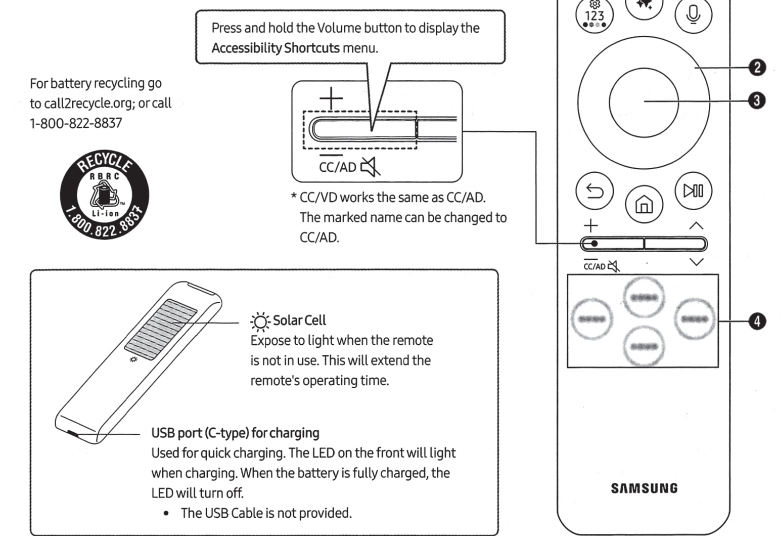
[Monitor only]

Main processor(s) or system on a chip (SOC), All internal and external power supplies and/or I/O connectors and external power connection can be upgradeable, repairable or replaceable within 5 years from the date of product purchase, which may incur charges.

|                                              | Upgradeable | Repairables | Replaceable |
|----------------------------------------------|-------------|-------------|-------------|
| Main processor(s) or system on a chip        | Yes         | No          | Yes         |
| All internal and external power supplies     | No          | Yes         | Yes         |
| I/O connectors and external power connection | No          | No          | Yes         |

About the Samsung SolarCell Remote (Samsung Smart Remote)

The **Accessibility Shortcuts** button on your remote provides easy access to the accessibility functions on your TV.



- ⚠ Fire or explosion may occur, resulting in damage to the remote control or personal injury.**
- Do not apply shock to the remote control.
  - Be careful not to let foreign substances such as metal, liquid, or dust come in contact with the charging terminal of the remote control.
  - When the remote control is damaged or you smell smoke or burning fumes, immediately stop operation and contact a service center.
  - Do not arbitrarily disassemble the remote control.
  - Be careful not to let infants or pets suck or bite the remote control. Fire or explosion may occur, resulting in damage to the remote control or personal injury.

Note: The images shown in this manual are for illustrative purposes only and may be subject to change, the actual descriptions of control panel and their locations may vary depending on the model.

| Button                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (Power)                                    | Press to turn the TV on or off.<br>For The Frame model, When watching TV, press to switch to Art mode. In Art mode, press to switch to the Home screen. Press and hold to turn off the TV completely.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MIC / LED                                  | Used as MIC when using voice recognition with the remote control.<br>When charging the remote control via the USB port, the LED is lit if charging is in progress. When charging is complete, the LED is turned off. <ul style="list-style-type: none"><li>• Do not impact the MIC hole or use a sharp object to poke into the hole.</li></ul>                                                                                                                                                                                                                                                                                            |
| (Click to Search)                          | If this button is pressed while watching a broadcast, users are provided with recommendations related to the current content. <ul style="list-style-type: none"><li>• Types of recommendations may differ, depending on the content provider.</li><li>• This function may not be supported depending on the model or geographical area.</li></ul>                                                                                                                                                                                                                                                                                         |
| (Voice Assistant)                          | Runs Voice Assistant. Press and hold the button, say a command, and then release the button to run Voice Assistant. <ul style="list-style-type: none"><li>• The supported Voice Assistant's languages and features may differ by geographical region.</li></ul> Keep the remote more than 0.6 inches (15.24 mm) from your face when using and speaking to Voice Assistant through the mic on the remote.                                                                                                                                                                                                                                  |
| (Settings - Number - Color button)         | You can access Settings menu / virtual numeric pad / Color buttons / Option pad / SmartThings app directly. <ul style="list-style-type: none"><li>• Accessing the SmartThings app using this button may not be supported, depending on the model.</li><li>• Use this button to access additional options that are specific to the feature in use.</li><li>• Press to bring up the virtual numeric pad on the screen. Use the numeric keypad to enter numeric values. Select numbers and then select <b>Done</b> or <b>Enter Number</b> to enter a numeric value. Use to change the channel, enter a PIN, enter a ZIP code, etc.</li></ul> |
| Directional button (up, down, left, right) | Use to navigate the menu or move the focus to highlight items on the Home Screen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Select                                     | Selects or runs a focused item. When pressed while you are watching a broadcast program, detailed program information appears.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| (Return)                                   | Press to return to the previous menu. When pressed for 1 second or more, the running function is terminated. When pressed while you are watching a program, the previous channel appears.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| (Smart Hub)                                | Press to switch to the Home Screen. <ul style="list-style-type: none"><li>• If you press this button for more than 1 second, the same function as when pressing the  button is achieved.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| (Play/pause)                               | When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.<br>To use Game Bar, press and hold the button in <b>Game Mode</b> . <ul style="list-style-type: none"><li>• Game Bar may not be supported depending on the model or geographical area.</li></ul>                                                                                                                                                                                                                                                                                                                     |
| + / - (Volume)                             | Move the button up or down to change the volume. To mute the sound, press the button. <ul style="list-style-type: none"><li>•  may not be present, depending on the model.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ^ / v (Channel)                            | Move the button up or down to change the channel. To see the Guide screen, press the button. When pressed for 1 second or more, the Channel List screen appears. Press and hold the button up or down to quickly change the channel.                                                                                                                                                                                                                                                                                                                                                                                                      |
| Launch app button                          | Launch the app indicated by the button. <ul style="list-style-type: none"><li>• Available apps may differ depending on the geographical area or contents provider.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| +  (Pairing)                               | If the Samsung Smart Remote does not pair to the TV automatically, point it at the front of the TV, and then press and hold the  and  buttons simultaneously for 3 seconds or more.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

- Use the Samsung Smart Remote less than 20 feet (6 m) from the TV. The usable distance may vary with the wireless environmental conditions.
- The images, buttons, and functions of the Samsung Smart Remote may differ with the model or geographical area.
- The Universal Remote function operates normally only when you use the Samsung Smart Remote that comes with the TV.
- It is recommended to use an original Samsung charger. Otherwise, it may cause performance degradation or failure of the product. In this case, the warranty service is not applicable.
- When the remote control does not work due to low battery, charge it by using the USB-C type port.
- For specific functions of each button on the Samsung Smart Remote, access the **Remote Control Guide** ( > left directional button > Settings > All Settings > Support > Tips and User Guides > Remote Control Guide).

Using Accessibility Functions (may differ with model)

Accessing your TV's accessibility functions

The **Accessibility Shortcuts** button on your remote provides easy access to the accessibility functions on your TV.

- Press and hold the Volume button to display the **Accessibility Shortcuts** menu.
- Some functions may not appear depending on the access method.
- These functions may not be supported depending on the model or geographical area.

Voice Guide

You can activate voice guides that describe the menu options aloud to aid the visually impaired. To activate this function, set **Voice Guide** to On. With Voice Guide on, the TV provides voice guides for channel change, volume adjust, information on current and upcoming programs, schedule viewing, other TV functions, various content in the Web Browser, and in **Search**.

- You can configure the volume, speed, pitch, and level of the **Voice Guide**.
- The **Voice Guide** is provided in the language that is specified on the **Language** screen. **English** is always supported. However, some languages are not supported by **Voice Guide** even though they are listed in the **Language** screen.

Audio (Video) Description

You can activate an audio guide that provides an audio description of video scenes for the visually impaired. This function is only available with broadcasts that provide this service.

Audio Subtitles

This feature audibly reads captions displayed on video content. You can change the volume or speed of audible captions.

Auto Picture Off

Turn off the TV screen and provide only sound to reduce overall power consumption. When you press any button on the remote control with the screen off, the TV screen is returned to on.

Magnification

Enlarge the screen to make the picture or text bigger. You can adjust the zoom level or move the zoom area.

High Contrast

You can change major service screens to white text on a black background or change the transparent TV menus to opaque so that text can be more easily read. To activate this function, set **High Contrast** to On.

Relumino Mode

This feature increases the contrast and brightness of the screen and emphasizes the outlines of images, so that viewers with low vision can see the screen more clearly.

Together Mode

Shows the screen displayed when **Relumino Mode** is turned on and the screen displayed when the mode is turned off, side by side simultaneously.

Zoom Menu and Text

You can enlarge the size of the font on the screen. To activate, set **Zoom Menu and Text** to On.

Grayscale

You can change the color of the TV screen to a black and white tone to sharpen blurred edges caused by colors.

- If Grayscale is on, some Accessibility menus are not available.

Color Inversion

You can invert the colors of the text and background for the setting menus displayed on the TV screen to make it easier to read them.

- If Color Inversion is on, some Accessibility menus are not available.

SeeColors Mode

This feature helps users with color blindness experience richer colors. Use this feature to customize the colors for your unique viewing conditions, to experience richer colors on the screen.

Learn TV Remote

This function helps individuals with a visual impairment to learn the positions of the buttons on the remote control. When this function is activated, you can press a button on the remote control and the TV will tell you its name. Press the (Return) button twice to exit **Learn TV Remote**.

Learn Menu Screen

Learn the menus on the TV screen. Once enabled, your TV will tell you the structure and features of the menus you select.

Caption

Set **Caption** to On to watch programs with the captions displayed.

- Captions are not displayed by programs that do not support captions.
- This function has no relationship with the features for controlling subtitles of DVD or Blu-ray players. To control DVD or Blu-ray subtitles, use the subtitle feature of the DVD or Blu-ray player and the player's remote control.

Auto Caption Position

Automatically adjust the caption position.

Separate Closed Caption

You can display the caption in the area separated from the broadcast screen.

Sign Language Zoom

You can zoom in the sign language screen when the program you are watching provides it. First, set **Sign Language Zoom** to On, and then select **Edit Sign Language Zoom** to change the position and magnification of the sign language screen.

Sign Language Guide

Provides a description of menu items with sign language.

Learn Gesture Functions

Check out how to use Gesture functions.

Multi-output Audio

You can turn on the TV speaker and a Bluetooth device at the same time. When this function is active, you can set the volume of the Bluetooth device higher than the volume of the TV speaker.

Slow Button Repeat

You can configure the operation speed of the remote control buttons so that they slow down when you continually press and hold them. Set **Slow Button Repeat** to On.

Auto Menu Sort

Automatically sorts your frequently used menu items.

**PRINTED IN MEXICO / Elbrd: J.M / SC: 11-13-2025**

**OBNP:** BN68-20833E-00

**SHNMDL:** QN85QN70DFXZA\_QN85QN80DFXZA

QN65LS03FWDXZA\_QN65QN70DFXZA\_QN65S90DFXZA

QN77S90DFXZA

8 1 4 1 0 0 6 5 2



**SAMSUNG**

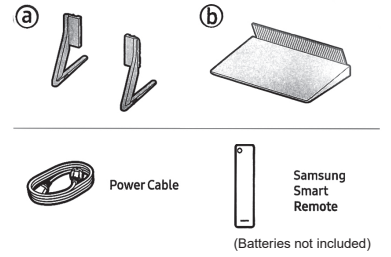
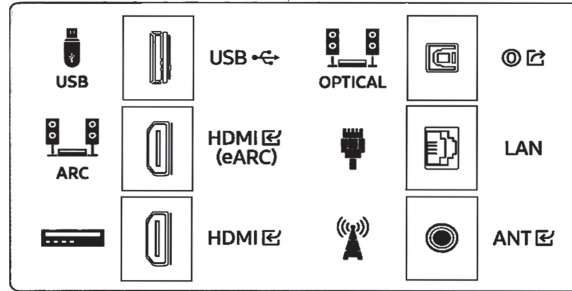
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# Unpacking and Installation Guide

PLEASE READ THIS GUIDE CAREFULLY BEFORE OPERATING YOUR UNIT AND RETAIN FOR FUTURE REFERENCE.

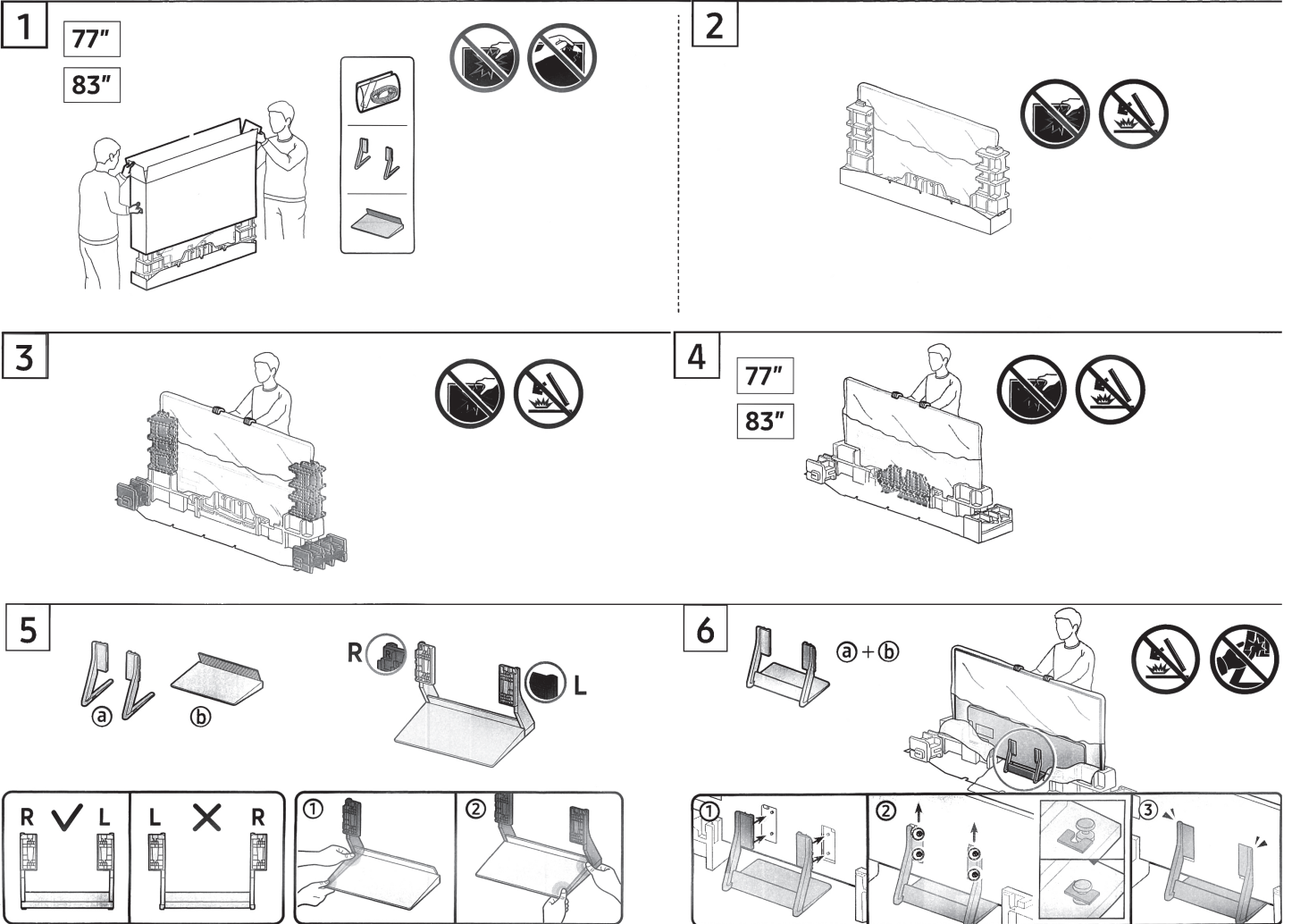
\*The actual number of ports may have a different name or location.

\*The cables mentioned in this guide is not supplied with your unit.



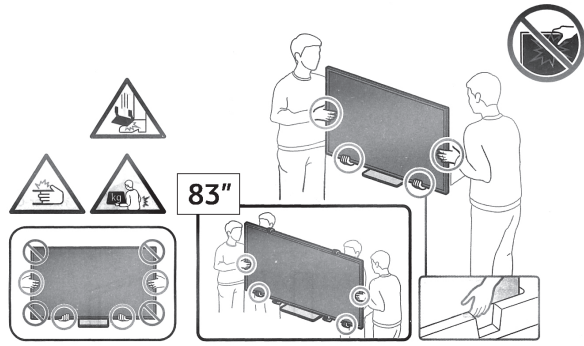
\*The remote control vary depend of model: The buttons on the remote control may have a different name or location than the remote control shows in this manual.

\*Accessory type and quantity may vary depending on the model.

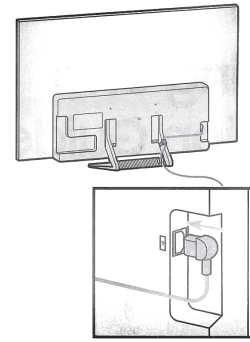


\*The image shown in this guide are for illustrative purposes only and may be subject to change.

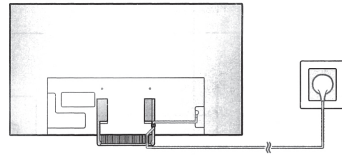
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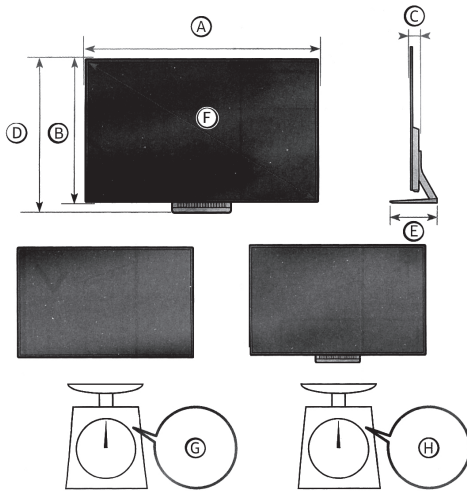
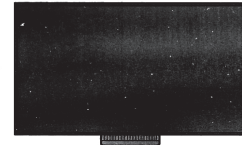
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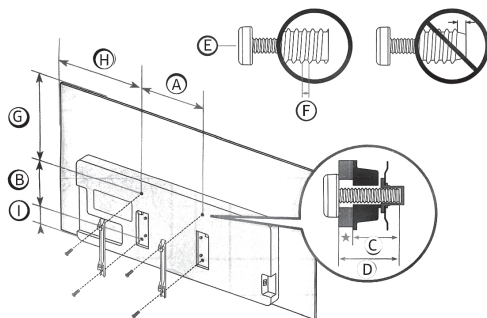


The images shown in this guide are for illustrative purposes only and may be subject to change, the actual descriptions of control panel and their locations may vary depending on the model.



|                  | A                          | B                          | C                       | D                          | E                         | F           | G                     | H                     |
|------------------|----------------------------|----------------------------|-------------------------|----------------------------|---------------------------|-------------|-----------------------|-----------------------|
| 77S9*F           | 67.7 inches<br>(1718.5 mm) | 38.9 inches<br>(987.6 mm)  | 1.8 inches<br>(44.9 mm) | 41.7 inches<br>(1058.6 mm) | 14.1 inches<br>(359.0 mm) | 76.8 inches | 76.7 lbs<br>(34.8 kg) | 80.7 lbs<br>(36.6 kg) |
| 83S9*D<br>83S9*F | 72.9 inches<br>(1851.0 mm) | 41.8 inches<br>(1062.8 mm) | 1.8 inches<br>(44.9 mm) | 44.6 inches<br>(1133.7 mm) | 14.1 inches<br>(359.0 mm) | 82.5 inches | 82.9 lbs<br>(37.6 kg) | 86.9 lbs<br>(39.4 kg) |

\* : 0-9, A-Z



|                  | VESA (A x B) (mm) | C (mm) | D     | E x 4 | F (mm) | G (inches) | H (inches) | I (inches) |
|------------------|-------------------|--------|-------|-------|--------|------------|------------|------------|
| 77S9*F           | 400 x 300         | 28-30  | C + ★ | M8    | 1.25   | 24.0       | 26.0       | 3.1        |
| 83S9*D<br>83S9*F |                   |        |       |       |        | 26.9       | 28.6       | 3.1        |

\* : 0-9, A-Z

★ : Wall-Mount Bracket

(Wall mount kit not included)