## Samsung QN65Q70RAFXZA

# Samsung Q70 Series 65-Inch QLED 4K UHD HDR Smart TV User Manual (2019 Model)

Model: QN65Q70RAFXZA

## 1. INTRODUCTION

This manual provides essential information for the setup, operation, maintenance, and troubleshooting of your Samsung Q70 Series 65-inch QLED 4K UHD HDR Smart TV. Please read this manual thoroughly before using your TV to ensure safe and optimal performance.

The Samsung QN65Q70RAFXZA features a 65-inch flat QLED display with 4K UHD HDR technology, delivering vibrant colors and deep contrasts. Powered by a Quantum Processor 4K, it intelligently upscales content and optimizes picture quality. Its smart features include the OneRemote, Bixby voice command, and compatibility with SmartThings, Alexa, and Google Assistant.
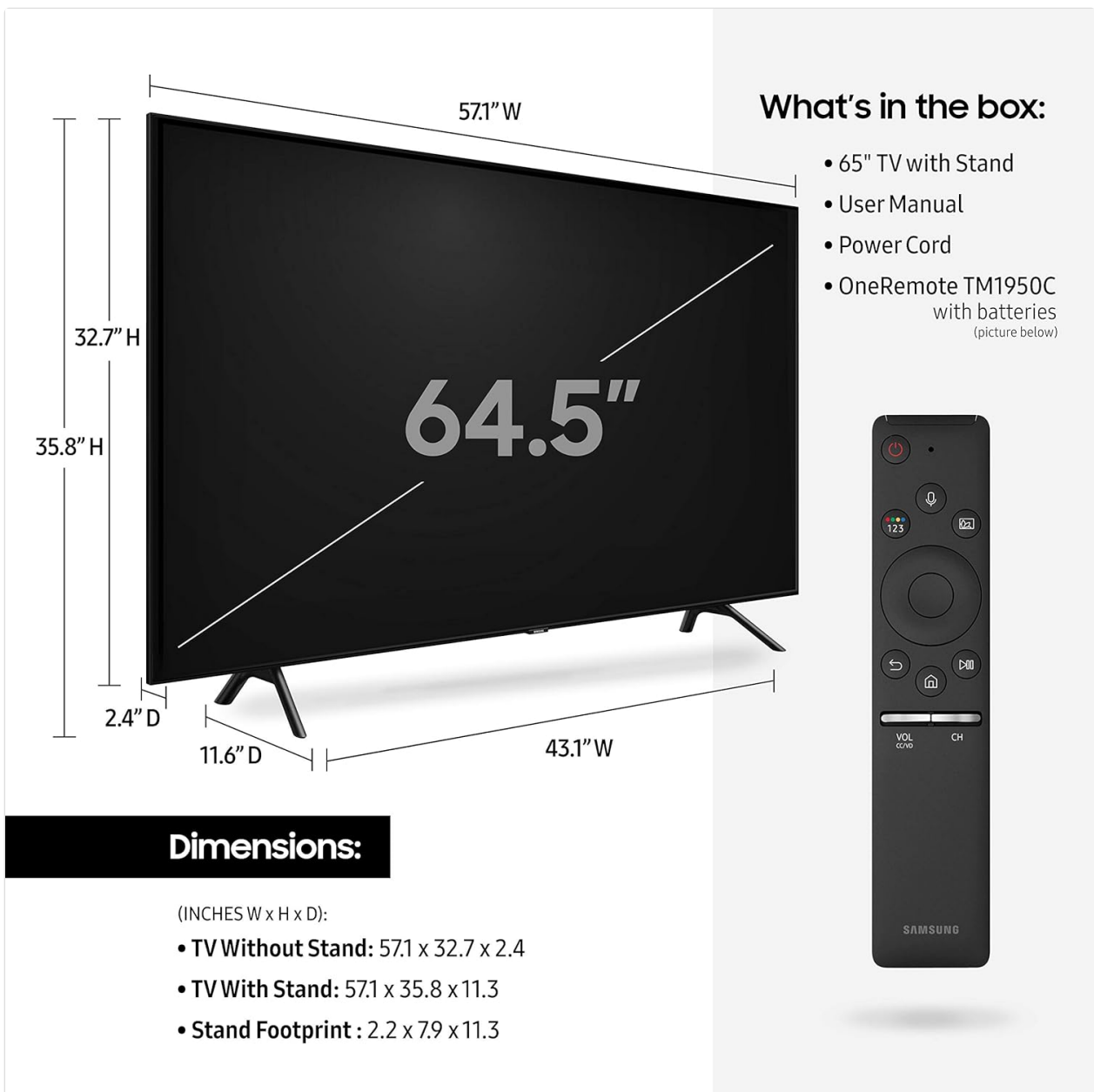
## 2. WHAT'S IN THE BOX

Upon unpacking, please verify that all the following components are included:

- Samsung Q70 Series 65-Inch Smart TV (QN65Q70RAFXZA)
- OneRemote TM1950C with batteries
- Power Cable
- Stand components
- User Manual (this document)
- Samsung Smart Control



**What's in the box:**

- 65" TV with Stand
- User Manual
- Power Cord
- OneRemote TM1950C with batteries (picture below)

57.1" W
32.7" H
35.8" H
64.5"
2.4" D
11.6" D
43.1" W

**Dimensions:**

(INCHES W x H x D):
- **TV Without Stand:** 57.1 x 32.7 x 2.4
- **TV With Stand:** 57.1 x 35.8 x 11.3
- **Stand Footprint :** 2.2 x 7.9 x 11.3

*Image: A visual representation of the TV's dimensions and the contents of the box, including the OneRemote.*

## 3. SETUP

### 3.1 Stand Installation or Wall Mounting

Your TV can be placed on a stand or mounted on a wall. For stand installation, carefully follow the instructions provided in the separate stand assembly guide. For wall mounting, the TV is compatible with Mini Wall and VESA (400 x 300) mounts. Ensure you use appropriate screws and mounting hardware for your chosen method. It is recommended to have two people for safe installation.



*Image: The Samsung Q70 Series TV seamlessly integrated into a living room, demonstrating its suitability for wall mounting.*

### 3.2 Connecting Devices

Connect your external devices (e.g., cable box, Blu-ray player, gaming console) to the TV's input ports:

- **HDMI:** 4 ports available for high-definition audio and video.
- **USB:** 2 ports for connecting USB devices.
- **Ethernet (LAN):** For wired network connection.
- **Optical Digital Audio Out:** For connecting to external audio systems.

### 3.3 Initial Power-On and Setup

After connecting the power cable, press the power button on the OneRemote. The TV will guide you through the initial setup process, including network connection, channel scanning, and smart feature configuration. You may need to create a Samsung Account to fully utilize all smart features.

## 4. OPERATING INSTRUCTIONS

### 4.1 Using the OneRemote

The included OneRemote (TM1950C) is designed for simplicity and ease of use. It allows you to control your TV and connected devices with minimal buttons. Familiarize yourself with the navigation pad, volume, channel, and smart hub buttons.

## 4.2 Smart TV Features

Your Samsung Q70 Series TV offers a range of smart features:

- **Bixby Voice Command:** Use your voice to control the TV, search for content, and get information.
- **Universal Guide:** Access a personalized guide that recommends content from various streaming services and live TV.
- **SmartThings:** Control compatible smart home devices directly from your TV.
- **Voice Assistant Compatibility:** Works with Amazon Alexa and Google Assistant for integrated control.

## 4.3 Picture and Sound Settings

Customize your viewing and listening experience through the TV's settings menu. Adjust picture modes (e.g., Standard, Dynamic, Movie), brightness, contrast, and color settings. For audio, select sound modes (e.g., Standard, Adaptive Sound) and adjust equalizer settings. The TV features Dolby Sound and a 2.1CH speaker system with a woofer for enhanced audio.

## 5. KEY FEATURES AND TECHNOLOGIES

The Samsung Q70 Series TV incorporates advanced technologies to deliver a superior entertainment experience:

## 5.1 Quantum Processor 4K

This intelligent processor utilizes AI-based formulas to instantly upscale content to 4K-level picture quality, even from non-native 4K sources. It optimizes every scene by reducing banding, macro-blocking, and artifacts often found in compressed streaming content. The Intelligent Mode features Adaptive Brightness, adjusting screen brightness based on ambient light, and optimizes sound and volume for different content types.

## 5.2 Quantum HDR 8x

Powered by HDR10+, Quantum HDR 8x delivers a wide range of colors and contrasts, from the lightest whites to the darkest blacks, scene by scene. This dynamic tone mapping technology ensures amazing picture realism and detail in both bright and dark areas of the screen.

## 5.3 Direct Full Array Backlight 4x

This technology features concentrated zones of precision-controlled LEDs to display ultra-deep blacks and pure whites, enhancing contrast and detail across the screen. It provides superior local dimming capabilities for a more immersive viewing experience.

## 5.4 100% Color Volume with Quantum Dot

The QLED display, powered by Quantum dots, offers over a billion shades of brilliant color and achieves 100% color volume. This ensures exceptional depth of detail and accurate color reproduction, making images appear vibrant and lifelike.

## 5.5 Real Game Enhancer

Designed for avid gamers, the Real Game Enhancer provides a competitive edge:

- **Dynamic Black Equalizer:** Improves visibility in dark game scenes.

- **FreeSync VRR (Variable Refresh Rate):** Reduces screen tearing and stuttering for smooth gameplay.
- **Low Input Lag:** Minimizes delay between controller input and on-screen action.
- **Game Motion Plus:** Enhances motion clarity for fast-paced games.
- **Auto Game Mode:** Automatically optimizes settings for gaming when a console is detected.

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*Video: An official Samsung video highlighting the key features of the Q70 Series, including the Quantum Processor 4K, Quantum HDR 8x, Direct Full Array, 100% Color Volume, and Real Game Enhancer for an immersive viewing and gaming experience.*

# 6. MAINTENANCE

To ensure the longevity and optimal performance of your TV, follow these maintenance guidelines:

- **Cleaning the Screen:** Gently wipe the screen with a soft, dry microfiber cloth. For stubborn smudges, lightly dampen the cloth with water or a specialized screen cleaner (avoid harsh chemicals).
- **Cleaning the Frame:** Use a soft, dry cloth to wipe the TV frame and stand.
- **Ventilation:** Ensure adequate airflow around the TV by keeping vents clear of obstructions.
- **Power Off:** Unplug the TV from the power outlet during electrical storms or if it will be unused for extended periods.

# 7. TROUBLESHOOTING

If you encounter issues with your TV, refer to the following common solutions:

| Problem | Possible Solution |
|---|---|
| No Power | Check if the power cable is securely connected to both the TV and the wall outlet. Test the outlet with another device. |
| No Picture/Sound | Ensure the correct input source is selected. Check all cable connections (HDMI, etc.). Restart connected devices. |
| Remote Not Working | Replace the batteries in the OneRemote. Ensure there are no obstructions between the remote and the TV. |
| Poor Picture Quality | Adjust picture settings (brightness, contrast, sharpness). Check the resolution of the input source. |
| Network Connection Issues | Restart your router and modem. Check Wi-Fi password. Try a wired Ethernet connection if possible. |

If the problem persists after trying these solutions, please contact Samsung customer support.

# 8. SPECIFICATIONS

| Feature | Detail |
|---|---|
| Brand | Samsung |
| Model Number | QN65Q70RAFXZA (Item model number: SAMQN65Q70RAOB9) |

| Feature | Detail |
| --- | --- |
| Screen Size | 65 Inches (64.5" Measured Diagonally) |
| Display Technology | QLED |
| Resolution | 4K UHD (3,840 x 2,160) |
| Refresh Rate | 120 Hz (Motion Rate: 240) |
| HDR Support | Quantum HDR 8x (HDR10+) |
| Backlight Type | Direct Full Array Backlight 4x |
| Speaker Type | 2.1CH with Woofer |
| Audio Output (RMS) | 40W |
| Connectivity | 4 HDMI, 2 USB, Ethernet (LAN), Optical Digital Audio Out, Bluetooth, Wireless |
| Product Dimensions (without stand) | 57.1" W x 32.7" H x 2.4" D |
| Product Dimensions (with stand) | 57.1" W x 35.8" H x 11.3" D |
| Item Weight (without stand) | 53.6 lb |
| VESA Wall Mount Standard | 400 x 300 mm |
| Power Consumption | 95 watts |

*Image: A side profile of the Samsung Q70 Series TV, illustrating its thin design.*

## 9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official Samsung website. Samsung provides customer support for product inquiries, technical assistance, and service requests.

You can typically find support contact details on the Samsung website or within the TV's on-screen help menu. Please have your TV's model number (QN65Q70RAFXZA) and serial number ready when contacting support.