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Samsung E1SAMQN50Q8F

Samsung QN50Q8FAAFXZA 50-inch QLED Q8F 4K Vision AI Smart TV User Manual

Model: E1SAMQN50Q8F

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your Samsung QN50Q8FAAFXZA 50-inch QLED Q8F 4K Vision AI Smart TV. Please read it thoroughly to ensure proper use and to maximize your viewing experience.



Image: The Samsung QN50Q8FAAFXZA 50-inch QLED Q8F 4K Vision AI Smart TV, shown with its stand and bundled accessories including HDMI cables and a guidebook.

4K UHD HDR+ Tizen® Samsung Vision AI



Image: A close-up of the Samsung QLED TV screen displaying various technology logos such as 4K UHD, HDR+, Tizen, and Samsung Vision AI, highlighting its advanced features.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to your TV and ensure personal safety.

- **Electrical Safety:** Do not overload wall outlets. Use only the provided power cord. Ensure the power plug is fully inserted into the outlet.
- **Placement:** Place the TV on a stable, level surface or securely mount it to a wall. Ensure adequate ventilation around the TV to prevent overheating. Keep the TV away from direct sunlight, heat sources, and moisture.
- **Cleaning:** Disconnect the power cord before cleaning. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Handling:** Handle the TV with care. Avoid impacts to the screen. Do not insert objects into the TV's openings.

3. WHAT'S IN THE BOX

Verify that all components are present upon unpacking:

- Samsung Q8F 4K HDR Smart QLED TV
- SolarCell Remote Control
- Power Cable
- Limited 1-Year Manufacturer Protection documentation
- 2x Deco Gear 6FT Universal 4K HDMI 2.0 Cables
- Deco Gear Complete Home Theater Beginner's Guidebook

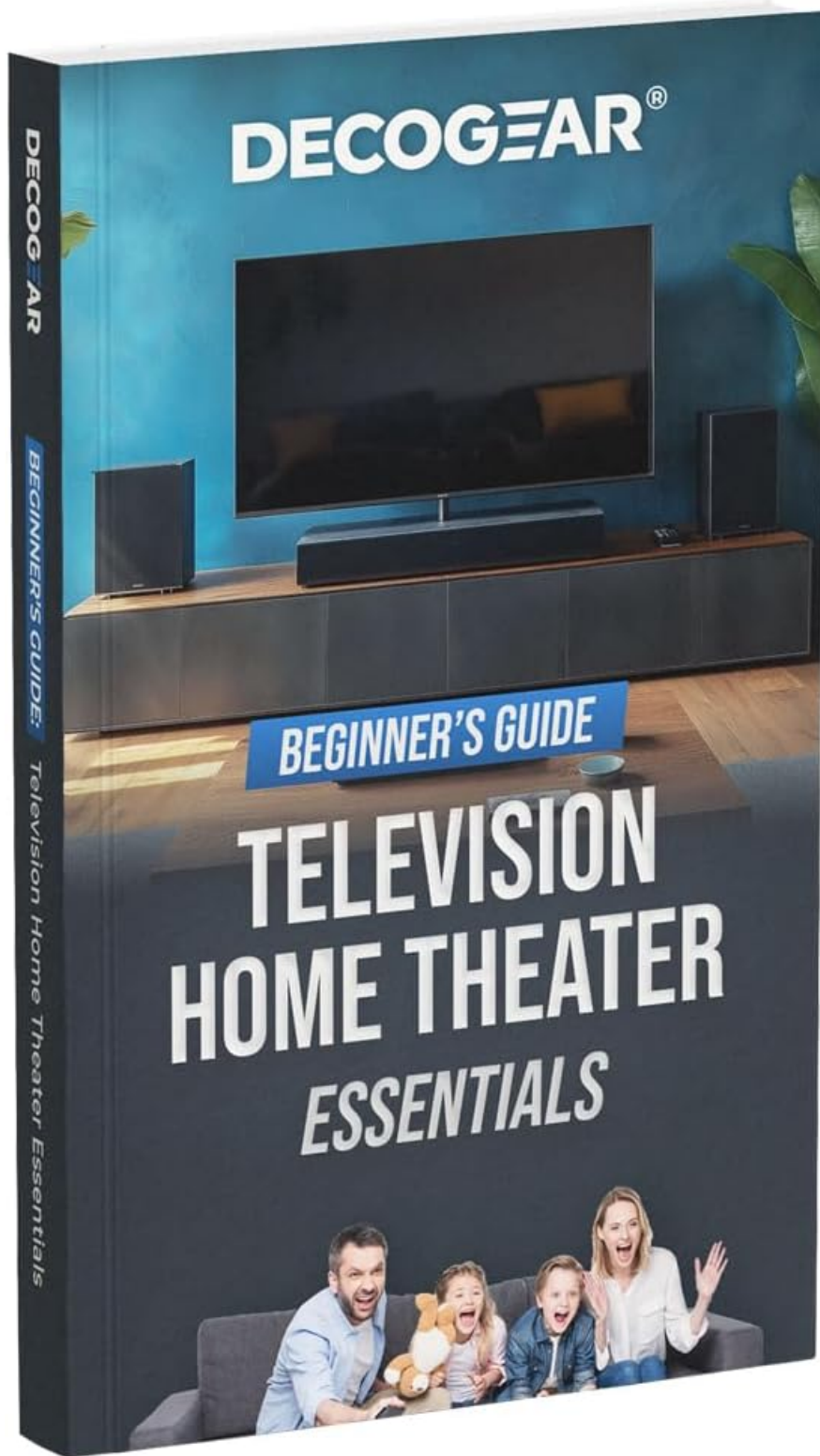


Image: The Deco Gear bundle box, indicating 12-month protection and the inclusion of two HDMI cables, which are part of the product package.

4. SETUP

4.1 Unpacking

Carefully remove the TV and all accessories from the packaging. It is recommended to retain the packaging for future transport or service needs.

4.2 Stand Installation or Wall Mounting

If using the included stand, attach it securely according to the instructions provided in the separate stand assembly guide.

If wall-mounting, ensure you use a compatible VESA mount and follow the mount manufacturer's instructions, ensuring the TV is securely fastened.



Image: A side profile view of the Samsung QLED TV, illustrating its slim design and the attached stand, which supports the display.

4.3 Connecting External Devices

Connect your external devices (e.g., cable box, Blu-ray player, gaming console) to the appropriate ports on the back of the TV.

- **HDMI:** Use HDMI cables for high-definition video and audio. The TV features multiple HDMI ports, including one with eARC for enhanced audio return channel functionality.

- **USB:** Connect USB storage devices for media playback or software updates.
- **LAN:** For a wired internet connection, connect an Ethernet cable to the LAN port.
- **Antenna:** Connect an antenna or cable TV signal to the ANT In port.



Image: A detailed view of the TV's back panel, showing the arrangement of various input ports including USB, HDMI (with eARC), LAN, and ANT In for connecting external devices.

4.4 Power Connection

After connecting all necessary devices, plug the power cable into the TV's power input and then into a wall outlet.

4.5 Initial Setup Wizard

Upon first power-on, the TV will guide you through an initial setup process. This includes selecting your language, connecting to a Wi-Fi network (or using a wired connection), scanning for channels, and agreeing to terms and conditions.

5. OPERATING

5.1 Remote Control

Your TV comes with a SolarCell Remote Control. Familiarize yourself with its buttons for power, volume, channel, navigation, and Smart Hub access.

5.2 Basic TV Functions

- **Power On/Off:** Press the power button on the remote.
- **Volume Control:** Use the volume buttons to adjust audio levels.
- **Channel Selection:** Use the channel buttons to change channels.
- **Input Source:** Access the input menu to switch between connected devices (HDMI 1, HDMI 2, etc.).

5.3 Smart Features and Vision AI

Your Samsung QLED TV integrates advanced smart features and Vision AI for an enhanced viewing experience.



Image: The Samsung QLED TV screen showcasing a vivid image, accompanied by the 'Samsung Vision AI' logo, indicating the TV's intelligent processing capabilities.

- **Q4 AI Processor:** This processor upscales content to stunning 4K quality, even from lower-resolution sources. It optimizes picture and audio quality based on content type, ensuring an improved viewing experience for movies, sports, and more.

Q4 AI Processor Powers dramatically clear color and sound

Enjoy your movies and shows in stunning 4K, regardless of the source resolution. Plus, get the most out of what you're watching with AI-optimized color-boosted picture and audio quality, enhanced according to the type of content.²

² Utilizes AI based formulas to adjust color and sound



Image: A graphic representation of the Q4 AI Processor, highlighting its role in delivering dramatically clear color and sound by optimizing content.

- **100% Color Volume with Quantum Dot:** Experience over a billion shades of color with remarkable precision. Quantum Dots ensure that colors remain vibrant and true, regardless of scene brightness.



³ 100% color volume measured in Movie Mode and the DCI-P3 color space, certified by VDE.

100% Color Volume with Quantum Dot
**Over a billion colors that stay true,
even in the brightest scenes***

Appreciate every beautiful shade of color with incredible precision. The nano-sized Quantum Dots can display the entire color spectrum,³ so you can admire billions of shades at any brightness level.

Image: A vibrant scene featuring a person in a swimming pool, illustrating the wide color spectrum and precision achieved with 100% Color Volume and Quantum Dot technology.

- **Motion Xcelerator 144Hz:** Enjoy smooth visuals and minimal blur during fast-paced scenes, ideal for gaming and sports. This technology supports VRR games at up to 4K 144Hz.



⁶ 4K 144Hz is only available with PC connected games that support such specifications (PC graphic card required). GN50Q8F, GN43Q8F, and GN32Q8F have Motion Xcelerator.

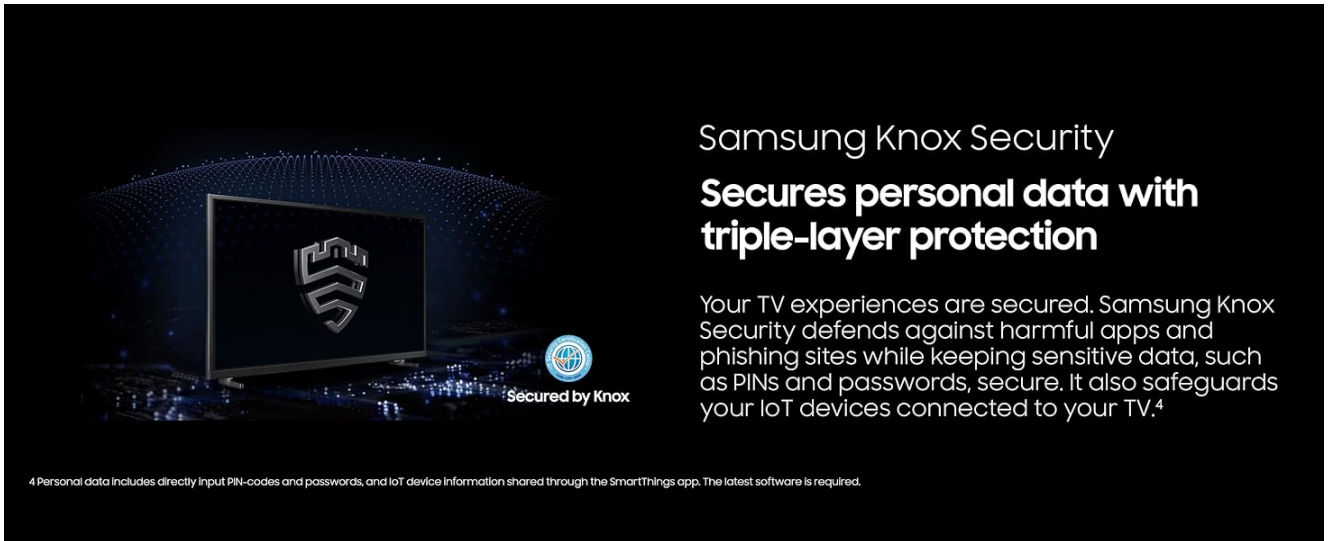
Motion Xcelerator 144Hz

**Brings smooth motion to sports
and tear-free gaming**

Experience smooth visuals and elite speeds for VRR gaming at up to 4K 144Hz.⁶

Image: A dynamic image of a motorcycle racer on a dirt track, demonstrating the smooth motion and tear-free gaming experience provided by Motion Xcelerator 144Hz.

- **AI Customization Mode:** The AI processor automatically detects content and optimizes picture settings to match your preferences, whether you prefer bold colors for sports or a moodier picture for films.
- **Samsung Knox Security:** Your TV is secured with triple-layer protection. Samsung Knox defends against harmful apps and phishing sites, safeguarding sensitive data and connected IoT devices.



The graphic features a television set in a dark environment, with a glowing shield icon on its screen. The shield is composed of a grid of dots, suggesting a digital or networked security layer. To the right of the TV, the text 'Secured by Knox' is displayed next to the Knox logo. The overall aesthetic is futuristic and secure.

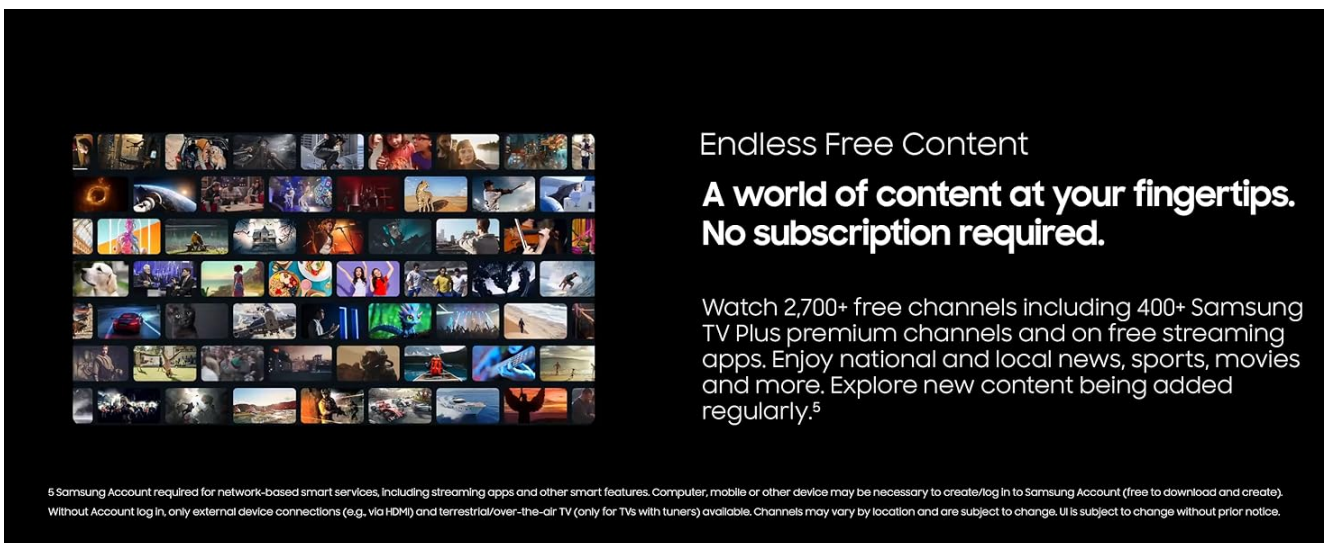
Samsung Knox Security
Secures personal data with triple-layer protection

Your TV experiences are secured. Samsung Knox Security defends against harmful apps and phishing sites while keeping sensitive data, such as PINs and passwords, secure. It also safeguards your IoT devices connected to your TV.⁴

4 Personal data includes directly input PIN-codes and passwords, and IoT device information shared through the SmartThings app. The latest software is required.

Image: A graphic showing a shield icon superimposed on a TV screen, representing Samsung Knox Security's triple-layer protection for personal data.

- **Endless Free Content:** Access over 2,700 free channels, including Samsung TV Plus premium channels and free streaming apps, without a subscription.



The graphic displays a large grid of small, colorful thumbnail images representing various TV shows and movies. The thumbnails are arranged in a dense, multi-row layout, showcasing a wide variety of content from action to nature documentaries. To the right of the collage, the text 'Endless Free Content' is followed by a bold headline and a descriptive paragraph.

Endless Free Content
A world of content at your fingertips. No subscription required.

Watch 2,700+ free channels including 400+ Samsung TV Plus premium channels and on free streaming apps. Enjoy national and local news, sports, movies and more. Explore new content being added regularly.⁵

5 Samsung Account required for network-based smart services, including streaming apps and other smart features. Computer, mobile or other device may be necessary to create/log in to Samsung Account (free to download and create). Without Account log in, only external device connections (e.g. via HDMI) and terrestrial/over-the-air TV (only for TVs with tuners) available. Channels may vary by location and are subject to change. UI is subject to change without prior notice.

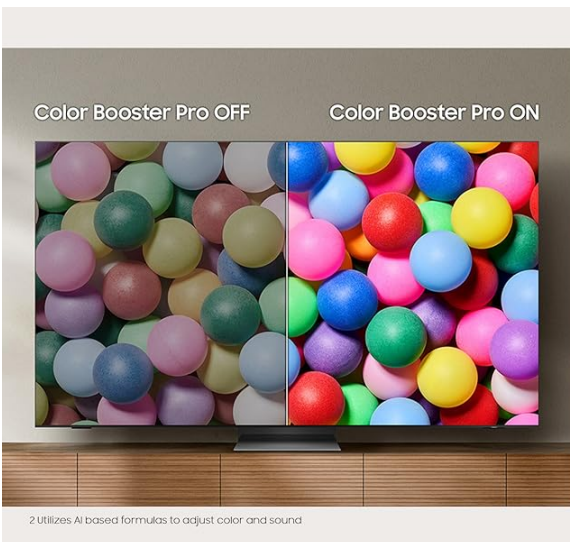
Image: A collage of diverse TV shows and movies, illustrating the vast array of endless free content available through the TV's smart features.

- **Quantum HDR+:** Experience a wide range of contrast for detailed, cinematic visuals. HDR+ dynamically analyzes each scene to deliver enhanced brightness and contrast.



Image: A split-screen comparison demonstrating the difference between SDR (Standard Dynamic Range) and Quantum HDR+, showcasing the significantly enhanced detail and contrast provided by HDR+.

- **Color Booster Pro:** AI analyzes each scene to enhance hues, providing a more vibrant and dynamic color experience.



Color Booster Pro
A world of vibrant colors enhanced by AI

Experience vibrant and dynamic colors as AI analyzes each scene and enhances the hues for a more vibrant viewing experience.²

Image: A side-by-side comparison of a scene with Color Booster Pro off and on, clearly demonstrating the AI-enhanced vibrant colors when the feature is active.

- **Active Voice Amplifier and Adaptive Sound:** Adaptive Sound optimizes audio scene-by-scene for balanced sound. Active Voice Amplifier boosts dialogue clarity, even in noisy environments.

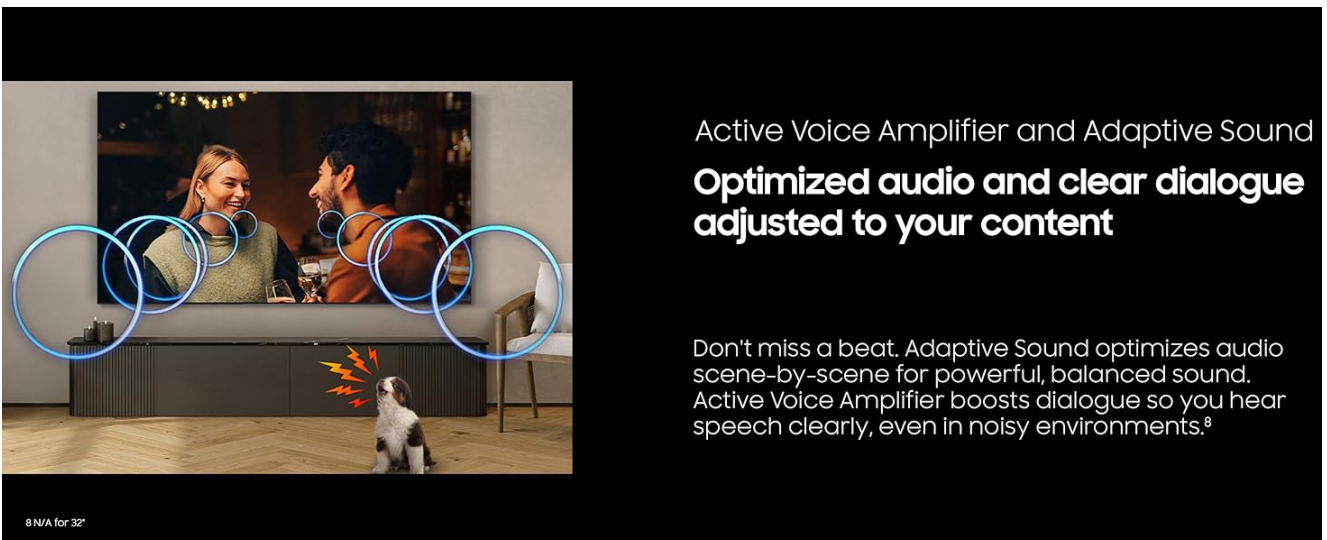


Image: A visual representation of sound waves originating from a TV screen, depicting how Active Voice Amplifier and Adaptive Sound optimize audio and clarify dialogue.

6. MAINTENANCE

6.1 Cleaning Your TV

- **Screen:** Gently wipe the screen with a soft, lint-free cloth. For stubborn marks, lightly dampen the cloth with distilled water. Avoid harsh chemicals.
- **Body:** Wipe the TV's frame and stand with a soft, dry cloth.

6.2 Software Updates

Regularly check for and install software updates to ensure optimal performance and access to the latest features. You can usually find this option in the TV's settings menu under 'Support' or 'Software Update'.

7. TROUBLESHOOTING

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

- **No Power:** Ensure the power cord is securely connected to both the TV and the wall outlet. Test the outlet with another device.
- **No Picture:** Check that the correct input source is selected. Verify all HDMI or other video cables are securely connected. Try restarting the TV and any connected devices.
- **No Sound:** Check the volume level and ensure the TV is not muted. Verify audio cables for external sound systems.
- **Remote Control Not Working:** Replace the batteries in the remote. Ensure there are no obstructions between the remote and the TV's sensor.
- **Network Connection Issues:** Restart your router and modem. Re-enter your Wi-Fi password in the TV's network settings. For wired connections, check the Ethernet cable.

If problems persist, consult the Samsung support website or contact customer service.

8. SPECIFICATIONS

Feature	Specification
Brand Name	Samsung
Item Model Number	E1SAMQN50Q8F
Screen Size	49.5 Inches (Visible screen diagonal: 50" / 126 cm)
Display Technology	QLED
Resolution	4K
Refresh Rate	60 Hz (Motion Xcelerator 144Hz for VRR gaming)
Aspect Ratio	16:9
Product Dimensions	9.4"D x 44"W x 27.6"H (9.4 x 44 x 27.6 inches)
Item Weight	32.1 pounds
Color Name	Black

Feature	Specification
On-mode Power Consumption	105 watts
Special Features	100% Color Volume with Quantum Dot, Endless Free Content, Eye Comfort Mode, Q4 AI Processor, Samsung Knox Security
Connectivity Technology	Bluetooth, Wi-Fi

9. WARRANTY AND SUPPORT

Your Samsung QN50Q8FAAFXZA QLED Smart TV is covered by a Limited 1-Year Manufacturer Protection. For detailed warranty terms and conditions, please refer to the documentation included with your product.

For technical support, product registration, or additional information, please visit the official Samsung support website or contact their customer service.