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SAMSUNG QN85QN70FAFXZA

SAMSUNG QN85QN70FAFXZA 85-inch Neo QLED 4K Smart TV User Manual

Model: QN85QN70FAFXZA

1. INTRODUCTION

This manual provides essential instructions for setting up, operating, maintaining, and troubleshooting your SAMSUNG QN85QN70FAFXZA 85-inch Neo QLED 4K Smart TV. Please read this manual thoroughly before using your television to ensure safe and correct operation.

The SAMSUNG QN85QN70FAFXZA features an 85-inch Neo QLED display, 4K resolution, the NQ4 AI Gen2 Processor, Quantum Matrix Technology Slim, and Dolby Atmos audio for an immersive viewing experience.



Image 1.1: Front view of the SAMSUNG QN85QN70FAFXZA 85-inch Neo QLED 4K Smart TV.

2. SETUP

2.1 Unpacking

Carefully remove the television and all accessories from the packaging. It is recommended to retain the original packaging for future transport or service needs. Ensure all components listed in the packing guide are present.

2.2 Physical Installation

The television weighs approximately 91.9 pounds (41.7 kg) and has dimensions of 74.9"W x 45"H x 14.4"D (with stand). Due to its size and weight, two or more people are recommended for safe handling and installation.

2.2.1 Stand Installation

Follow the instructions provided in the separate stand assembly guide to attach the stand securely to the television. Place the television on a stable, level surface.

2.2.2 Wall Mount Installation

If wall-mounting, use a VESA-compliant wall mount kit (600mm x 400mm). Consult a professional for wall mount installation to ensure safety and proper mounting.

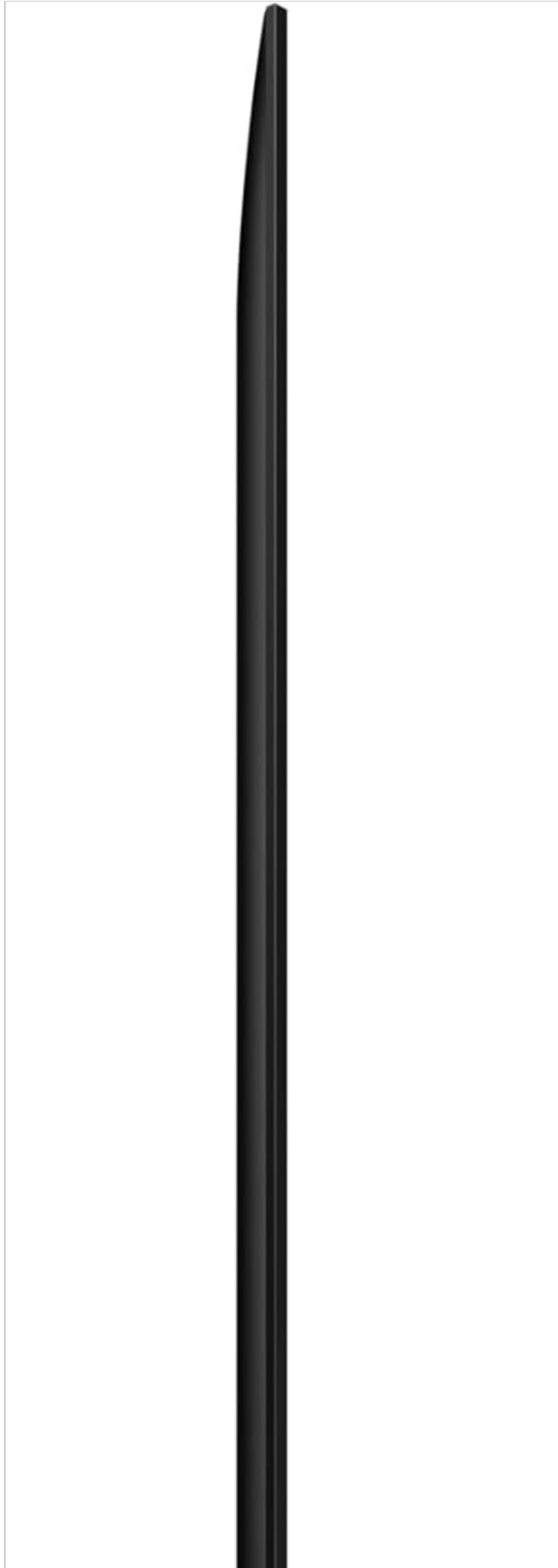




Image 2.1: Side profile of the television, illustrating its slim design.

2.3 Connecting External Devices

Connect your external devices to the appropriate ports on the back of the television. Ensure the television is powered off before making any connections.

- **HDMI Ports (x4):** Connect Blu-ray players, game consoles, set-top boxes, and other HDMI-compatible devices. HDMI 3 supports eARC for enhanced audio return channel functionality.
- **USB Ports (x2):** Connect USB storage devices for media playback or software updates.
- **LAN Port:** Connect an Ethernet cable for a wired internet connection.
- **ANT In:** Connect an antenna or cable TV coaxial cable.



Image 2.2: Rear view of the television showing various input/output ports.

2.4 Initial Power On

After connecting all necessary cables, plug the power cord into an electrical outlet. Press the power button on

the remote control or on the television itself to turn it on. Follow the on-screen instructions for initial setup, including language selection, network connection, and channel scanning.

3. OPERATING THE TELEVISION

3.1 Basic Functions

- **Power On/Off:** Use the power button on the remote or TV.
- **Input Source:** Press the 'Source' button on the remote to select between connected devices (HDMI 1, HDMI 2, TV, etc.).
- **Volume Control:** Use the volume up/down buttons.
- **Channel Selection:** Use the channel up/down buttons or the number pad.

3.2 Smart TV Features (One UI Tizen)

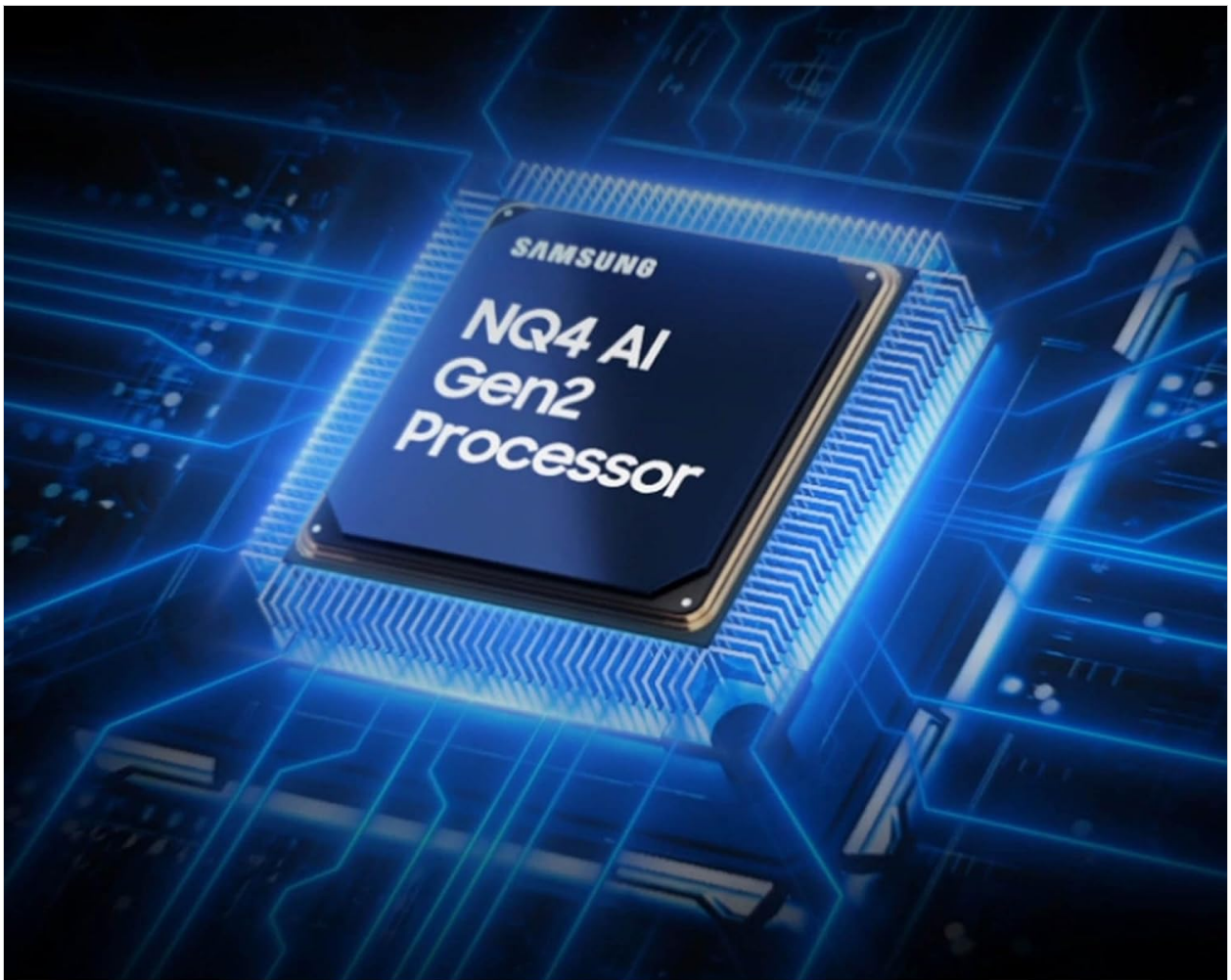
Your SAMSUNG TV runs on the One UI Tizen operating system, providing access to a wide range of smart features and applications. Supported internet services include Netflix, Prime Video, Disney+, Hulu, Apple TV, YouTube, HBO Max, Peacock, Sling, and more.

- **Home Screen:** Access apps, connected devices, and settings from the customizable home screen.
- **App Store:** Download and install additional applications.
- **Web Browser:** Browse the internet directly on your TV.

3.3 Picture Settings

The NQ4 AI Gen2 Processor and Quantum Matrix Technology Slim enhance picture quality. Adjust settings to optimize your viewing experience.

- **NQ4 AI Gen2 Processor:** Advanced AI processing for enhanced 4K clarity and upscaling.
- **Quantum Matrix Technology Slim:** Utilizes Mini LED lighting for precise light control and enhanced detail.
- **4K AI Upscaling:** Automatically enhances lower-resolution content to near 4K quality.
- **Neo Quantum HDR:** Provides a wide range of brightness and contrast.
- **Motion 144Hz / Refresh Rate 120Hz (Up to 144Hz):** Ensures smooth motion for fast-paced content and gaming.
- **Adaptive Picture AI Optimized / AI Customization:** Adjusts picture settings based on ambient light and content.

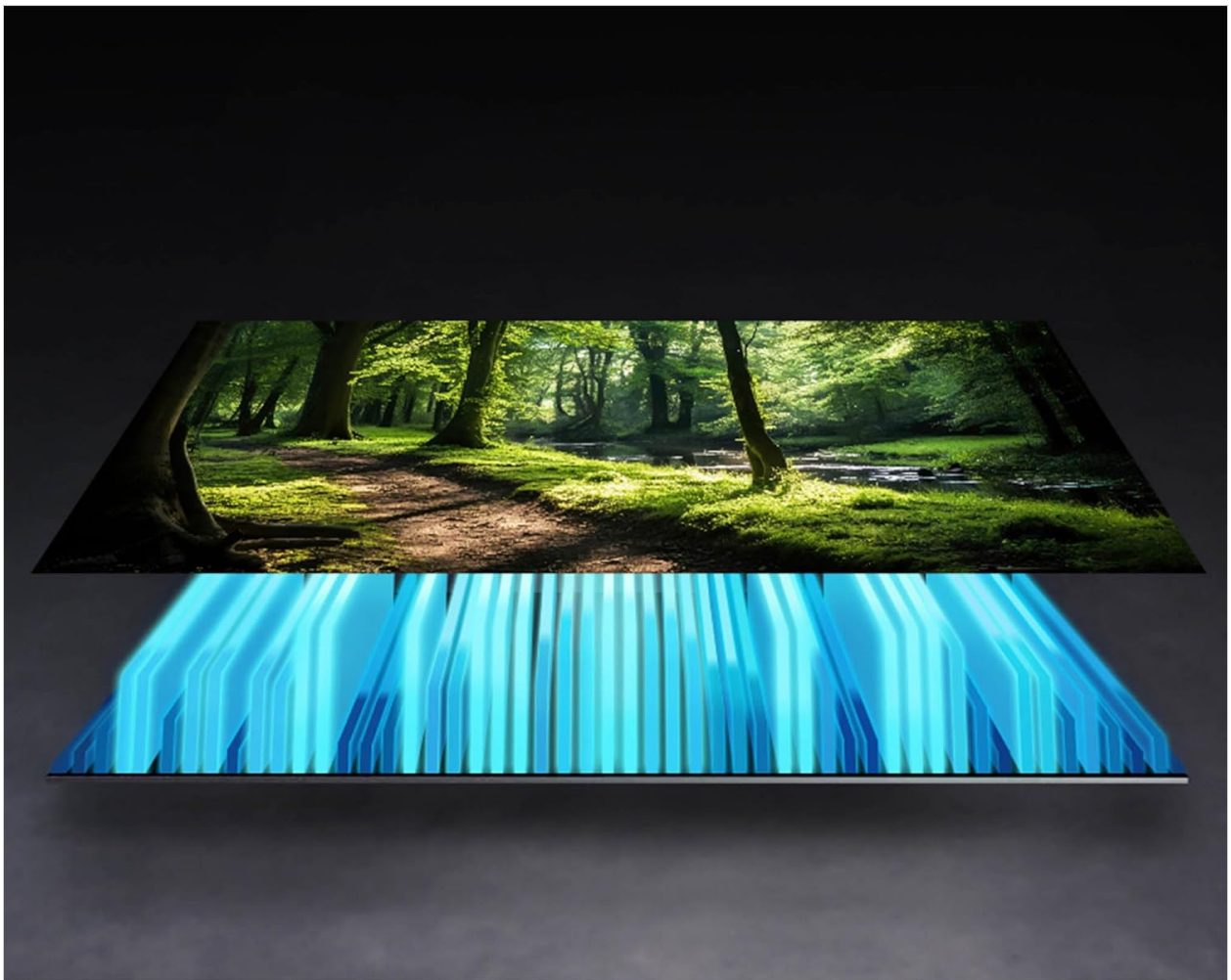


NQ4 AI Gen2 Processor

Advanced processing powers AI-enhanced clarity and 4K upscaling*

*Utilizes AI-Based formulas.

Image 3.1: Diagram illustrating the NQ4 AI Gen2 Processor.



Quantum Matrix Technology Slim

Enhanced details come to life with Mini LED lighting

Image 3.2: Illustration of Quantum Matrix Technology Slim with Mini LED lighting.



4K AI Upscaling

Advanced processing powers AI-enhanced clarity and 4K upscaling*

*Utilizes AI-Based formulas.

Image 3.3: Visual representation of 4K AI Upscaling enhancing image clarity.

3.4 Audio Settings

Experience rich audio with Dolby Atmos and other advanced sound technologies.

- **Dolby Atmos:** Provides immersive, multi-dimensional sound.
- **OTS Lite (Object Tracking Sound Lite):** Sound follows the action on screen.
- **Q-Symphony:** Synchronizes TV speakers with compatible Samsung soundbars for enhanced audio.
- **Bluetooth Audio:** Connect wireless headphones or speakers.

3.5 Gaming Features

- **Super Ultra Wide Game View:** Optimizes the screen for an expansive gaming perspective.
- **Motion 144Hz:** Reduces input lag and motion blur for smoother gameplay.

3.6 Voice Assistant

The TV supports multiple voice assistants for convenient control. Refer to the on-screen guide for setup and usage of your preferred voice assistant.

4. MAINTENANCE

4.1 Screen Cleaning

To clean the screen, gently wipe it with a soft, lint-free cloth. For stubborn marks, use a screen cleaning solution specifically designed for electronics. The included Amber Protection HDTV Screen Cleaner Kit is suitable for this purpose.

- The cleaning solution is non-ammonia and alcohol-free, preventing damage to display screens.
- It effectively removes dust, dirt, and fingerprints.



Image 4.1: Amber Protection Screen Cleaner Kit, including spray and microfiber cloths.

4.2 General Care

- Avoid placing the TV in direct sunlight or near heat sources.
- Do not block ventilation openings.
- Unplug the TV during lightning storms or when unused for extended periods.

5. TROUBLESHOOTING

If you encounter issues with your television, refer to the following common troubleshooting steps. For more detailed assistance, consult the full e-manual accessible via the TV's settings menu or contact SAMSUNG support.

5.1 No Power

- Ensure the power cord is securely plugged into both the TV and a working electrical outlet.
- Check if the outlet is receiving power by plugging in another device.
- Try pressing the power button on the TV itself, not just the remote.

5.2 No Picture or Distorted Picture

- Verify the correct input source is selected (e.g., HDMI 1, TV).
- Check all cable connections between the TV and external devices. Try re-seating them.
- If using an antenna, check its connection and position.
- Reset the TV by unplugging it from the power outlet for a few minutes, then plugging it back in.

5.3 No Sound or Low Sound

- Increase the volume using the remote control.
- Check if the TV is muted.
- Verify audio cables are correctly connected for external audio systems.
- Check the TV's sound settings to ensure the correct audio output is selected.

5.4 Network Connection Issues

- For Wi-Fi, ensure your router is on and within range. Try restarting the router.
- For wired connection, ensure the Ethernet cable is securely connected to both the TV and the router.
- Go to the TV's network settings and run a network status test.

6. SPECIFICATIONS

Feature	Specification
Brand	SAMSUNG
Model Name	QN85QN70FAFXZA
Screen Size	85 Inches (216 cm)
Display Technology	Neo QLED
Resolution	4K (3840 x 2160)
Refresh Rate	120 Hz (Up to 144Hz Motion)
Processor	NQ4 AI Gen2 Processor
Special Features	Quantum Matrix Technology Slim, 4K AI Upscaling, Neo Quantum HDR, Auto HDR Remastering, Wide Viewing Angle, Supreme UHD Dimming, Color Booster Pro, Adaptive Picture AI Optimized / AI Customization, Dolby Atmos, OTS Lite, Q-Symphony, 360 Audio, Bluetooth Audio, One UI Tizen, Samsung Vision AI, Multiple Voice Assistant Compatible, Karaoke Mic, Super Ultra Wide Game View
Operating System	One UI Tizen
Supported Internet Services	Netflix, Prime Video, Disney+, Hulu, Apple TV, YouTube, HBO Max, Peacock, Sling, and More
Connectivity	Wi-Fi 5, Ethernet, HDMI (x4, one eARC), USB-A (x2)

Speaker Type	Built-In
VESA Mount Compatibility	600mm x 400mm
Product Dimensions (with stand)	14.4"D x 74.9"W x 45"H
Item Weight	91.9 Pounds (41.7 kg)
Color	Black
Energy Efficiency	Energy Star Compliant

7. WARRANTY AND SUPPORT

7.1 Manufacturer's Warranty

This SAMSUNG television comes with a full 1-year manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions.

7.2 Amber Protection Plan

This product bundle includes a 2-year Amber Protection Plan, which extends coverage beyond the manufacturer's warranty. This plan typically covers mechanical and electrical failures and provides power surge protection. Benefits such as power surge protection and mechanical & electrical failures begin on Day 1 of purchase.

For details regarding your Amber Protection Plan, including covered products and how to file a claim, please refer to the documentation provided with the plan or contact Amber Protection customer support.

Extended Protection Features & Benefits	Covered Products
<ul style="list-style-type: none"> • Mechanical & Electrical Failures • Power Surge Protection • Nationwide Network of Service Providers • 24/7/365 Customer Support, and more. <p>When does the plan begin?</p> <p>All plans begin from date of purchase and are inclusive of the manufacturer's limited coverage. Benefits such as Power Surge Protection and Mechanical & Electrical Failures (if purchased) begin on Day 1.</p> <p>What items are eligible for extended protection?</p> <p>Electronics with at least a 90 day manufacturer limited coverage in the United States.</p>	<ul style="list-style-type: none"> • Televisions • Laptops • Tablets • Home Theater • Headphones • And More

Image 7.1: Example of an Amber Protection Plan document.

7.3 Customer Support

For technical assistance, product inquiries, or warranty claims, please contact SAMSUNG customer support. You can find contact information on the official SAMSUNG website or in the documentation included with your TV.

For support related to the Amber Protection Plan, please refer to the contact details provided with your plan documentation.

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This manual is for informational purposes only. Specifications are subject to change without notice.