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› [Samsung QN43QN90FA 43-inch Neo QLED 4K Smart TV User Manual](#)

Samsung QN43QN90FA

Samsung QN43QN90FA 43-inch Neo QLED 4K Smart TV User Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your Samsung QN43QN90FA 43-inch Neo QLED 4K Smart TV. Please read these instructions thoroughly before operating the device and retain them for future reference.



Figure 1.1: Front view of the Samsung QN43QN90FA 43-inch Neo QLED 4K Smart TV.

2. SAFETY INFORMATION

Always follow basic safety precautions to reduce the risk of fire, electric shock, and injury. Ensure the TV is placed on a stable surface or securely mounted. Do not expose the TV to rain or moisture. Avoid blocking ventilation openings. Refer to the separate safety guide for detailed warnings.

3. WHAT'S IN THE BOX

Verify that all components are present upon unpacking:

- Samsung QN43QN90FA 43-inch Neo QLED 4K Smart TV
- Remote Control
- Power Cable
- Stand Components (if applicable)
- User Manual and Warranty Card

- Amber Protection HDTV Screen Cleaner Kit (if bundled)

4. SETUP

4.1. Assembling the Stand or Wall Mounting

Carefully place the TV face down on a soft, clean surface. Attach the stand according to the instructions provided in the separate stand assembly guide, or follow the wall mount instructions if using a VESA-compatible mount (VESA 200mm x 200mm).

4.2. 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. The TV features 4 HDMI ports and 2 USB-A ports.



Figure 4.1: Rear view of the TV with input ports.

4.3. Initial Power On and Network Connection

Plug the power cable into the TV and a wall outlet. Press the power button on the remote control. Follow the on-screen instructions to complete the initial setup, including connecting to your Wi-Fi network (Wi-Fi 5 supported) and configuring smart features.

5. OPERATING THE TV

5.1. Remote Control Functions

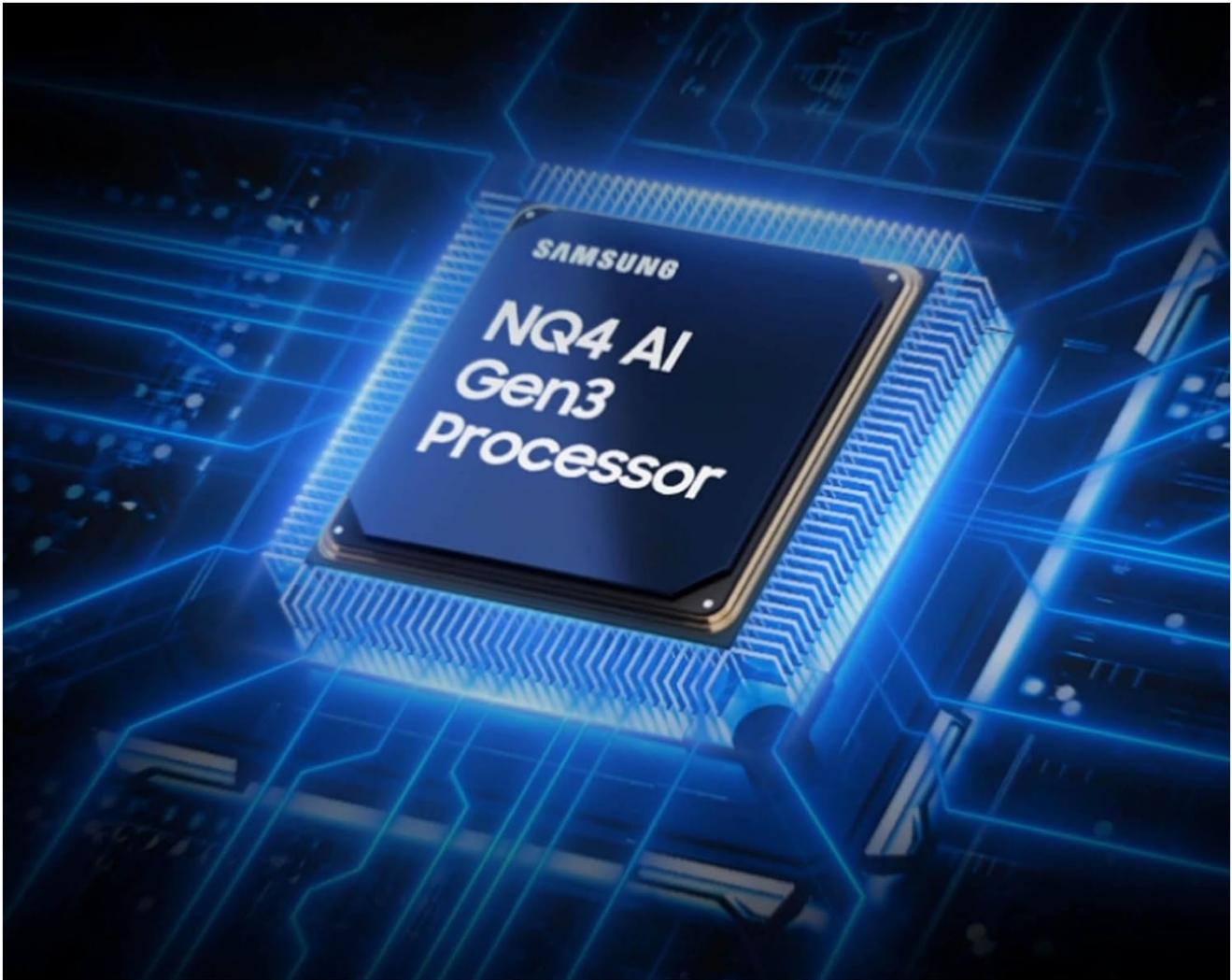
Use the provided remote control to navigate the TV's interface. The remote allows for channel changes, volume adjustments, input selection, and access to smart TV functions. The BT SolarCell Remote can be charged via solar power or USB-C.

5.2. Smart TV Features (Tizen OS)

Your Samsung QN43QN90FA TV runs on the Tizen Smart TV platform, offering access to various streaming services like Netflix, Prime Video, Disney+, Hulu, Apple TV, YouTube, HBO Max, and Peacock. Multiple voice assistants are compatible for hands-free control.

5.3. Picture and Sound Enhancements

The TV features the NQ4 AI Gen3 Processor, which utilizes AI to enhance picture and sound quality. 4K AI Upscaling Pro improves lower-resolution content to near 4K clarity. Glare Free technology minimizes reflections, and Neo Quantum HDR+ delivers expanded contrast and brightness.



NQ4 AI Gen3 Processor

Our most advanced 4K AI processor powers improved picture, sound and new experiences*

*Utilizes AI-Based formulas.

Figure 5.1: NQ4 AI Gen3 Processor.



4K AI Upscaling Pro

AI transforms content to a sharp, smooth 4K experience with 128 neural networks*

*Utilizes AI-Based formulas.

Figure 5.2: 4K AI Upscaling Pro in action.



Glare Free

Say goodbye to distracting reflections

Figure 5.3: Glare Free screen comparison.

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Video 5.1: Official product review highlighting features of the Samsung QN90F Series TV.

6. MAINTENANCE

6.1. Screen Cleaning

To clean the screen, gently wipe it with a soft, lint-free cloth. For stubborn marks, use the included Amber Protection HDTV Screen Cleaner Kit. The non-ammonia and alcohol-free solution is designed not to damage display screens and effectively removes dust, dirt, and fingerprints.



Figure 6.1: Amber Protection HDTV Screen Cleaner Kit.

6.2. General Care

Keep the TV free from dust by regularly wiping the exterior with a dry cloth. Ensure adequate ventilation around the TV to prevent overheating.

7. TROUBLESHOOTING

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

- **No Power:** Check if the power cable is securely connected to both the TV and the wall outlet. Ensure the outlet is functional.
- **No Picture/Sound:** Verify that the correct input source is selected. Check all cable connections between the TV and external devices.
- **Poor Picture Quality:** Adjust picture settings (brightness, contrast, sharpness). Ensure the content source is high quality. For lower resolution content, 4K AI Upscaling Pro will work to improve the image.
- **Remote Not Working:** Check the remote's battery level. Ensure there are no obstructions between the remote and the TV.
- **Network Connection Issues:** Restart your router and modem. Reconnect the TV to your Wi-Fi network through the settings menu.

For more complex issues, consult the full e-manual accessible via the TV's settings menu or contact Samsung customer support.

8. SPECIFICATIONS

Feature	Specification

Feature	Specification
Brand	Samsung
Model Name	QN43QN90FAFXZA
Screen Size	43 Inches
Display Technology	Neo QLED
Resolution	4K
Refresh Rate	120 Hz (Up to 165Hz)
Processor	NQ4 AI Gen3 Processor
Special Features	AI Motion Enhancer Pro, Glare Free, Auto HDR Remastering Pro, Wide Viewing Angle, Ultimate UHD Dimming, Real Depth Enhancer Pro, Motion Xcelerator 165Hz, Film Mode, 4K AI Upscaling Pro, Color Booster Pro, Dolby Atmos, OTS Lite, Q-Symphony Pro, Bluetooth Audio, 360 Audio, Tizen Smart TV, Multiple Voice Assistant Compatible, Samsung Health, Eco Sensor, Auto Power Saving/Off, BT SolarCell Remote
Connectivity	Wi-Fi 5, HDMI 4, 2 x USB-A
Speaker Type	Built-In
Product Dimensions	8.7"D x 37.8"W x 24.4"H
Item Weight	29.5 Pounds
Color	Titan Black
Energy Efficiency	Energy Star Compliant

9. WARRANTY AND SUPPORT

Your Samsung QN43QN90FA TV comes with a full 1-year manufacturer's warranty. Additionally, this specific bundle includes a 3-Year Amber Protection Plan. For warranty claims or technical assistance, please refer to the contact information provided in your warranty documentation or visit the official Samsung support website.