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› [Samsung 55-Inch Class Neo QLED QN70F 4K Mini LED Smart TV \(2025 Model\) NQ4 AI Gen2 Processor, Quantum Matrix Technology Slim, Motion Xcelerator 144Hz, Samsung Vision AI, Alexa Built-in 55-Inch TV Only](#)

Samsung QN55QN70FAFXZA

Samsung 55-Inch Class Neo QLED QN70F 4K Mini LED Smart TV

Model: QN55QN70FAFXZA

User Manual

INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your Samsung 55-Inch Class Neo QLED QN70F 4K Mini LED Smart TV. Please read this manual thoroughly before using your TV to ensure proper and safe operation. Keep this manual for future reference.



Front view of the Samsung 55-Inch Class Neo QLED QN70F Smart TV.

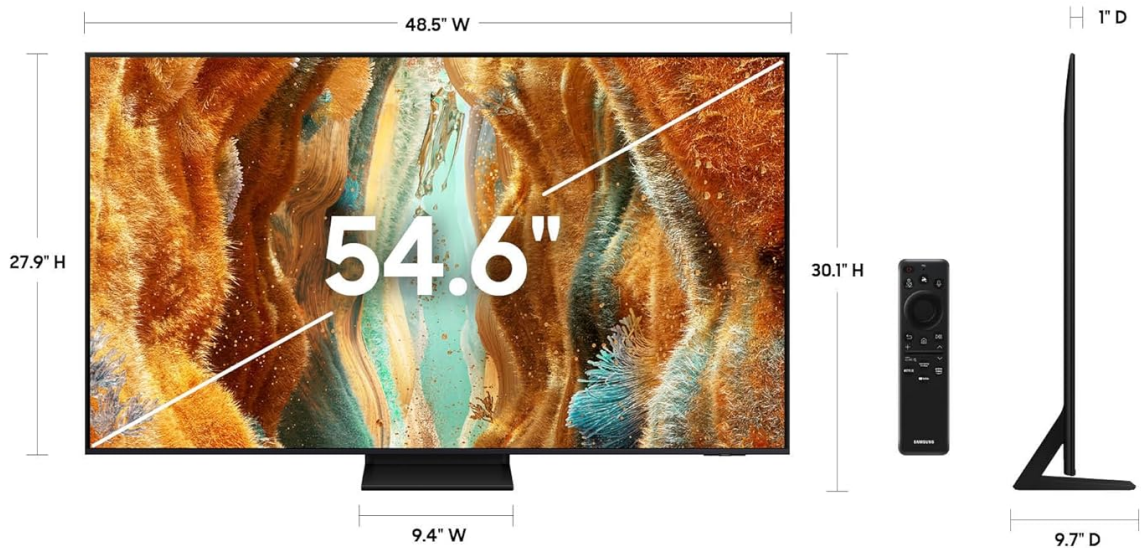
WHAT'S IN THE BOX

Verify that all components are present before beginning setup:

- Samsung 55-Inch Class Neo QLED QN70F TV
- User Manual
- Stand
- Remote Control
- Power Cable

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55" QN70F

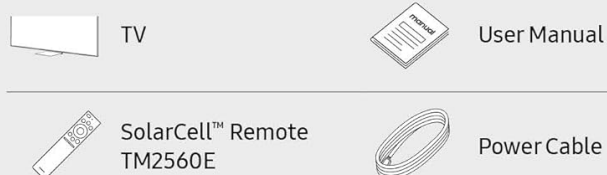


Dimensions:

(INCHES W x H x D):

- TV Without Stand: 48.5 x 27.9 x 1
- TV With Stand: 48.5 x 30.1 x 9.7
- Stand Footprint: 9.4 x 8.6 x 9.7

What's in the box:



Features and specifications subject to change.

Visual representation of the TV dimensions and contents of the packaging.

SETUP GUIDE

1. Unpacking and Placement

Carefully remove the TV from its packaging. Place the TV on a stable, flat surface or mount it securely to a wall using a compatible VESA mount (sold separately). Ensure adequate ventilation around the TV.

2. Attaching the Stand (Optional)

1. Align the TV stand with the mounting holes on the bottom of the TV.
2. Secure the stand using the provided screws. Do not overtighten.

3. Connecting Power

Connect the power cable to the TV's power input and then to a wall outlet. The TV will enter standby mode.

4. Initial Setup

Upon first power-on, the TV will guide you through the initial setup process, including language selection, network connection (Wi-Fi or Ethernet), and channel scanning. A Samsung Account is required for network-based smart services.

OPERATING YOUR TV

Remote Control Functions

Familiarize yourself with the included remote control for navigating the TV's features.

Smart TV Platform and Features

Your Samsung Neo QLED QN70F TV features an intuitive smart TV platform, offering access to a wide range of streaming apps, games, and free channels via Samsung TV Plus.

Why Samsung TVs

5 Reasons to buy:

Samsung Vision AI

AI Upscaling¹ +
AI Experiences¹



Excludes Crystal UHD, FHD and HD TV models.

Redefines TV with AI-powered upscaling and experiences.

Endless Content

Samsung TV Plus² +
Gaming Hub³



2,700+ free channels including 400+ Samsung TV Plus premium channels.²

Thousands of games—no console required.³

Security

Powered by Knox⁴



Secures personal data with triple-layer protection.

Design

Innovative
Thin Design



Cutting-edge technology with a sleek minimalist design to blend with your lifestyle.

Connectivity

SmartThings⁵



Works with 340+ smart home brands and unlocks exclusive features with select Samsung devices.

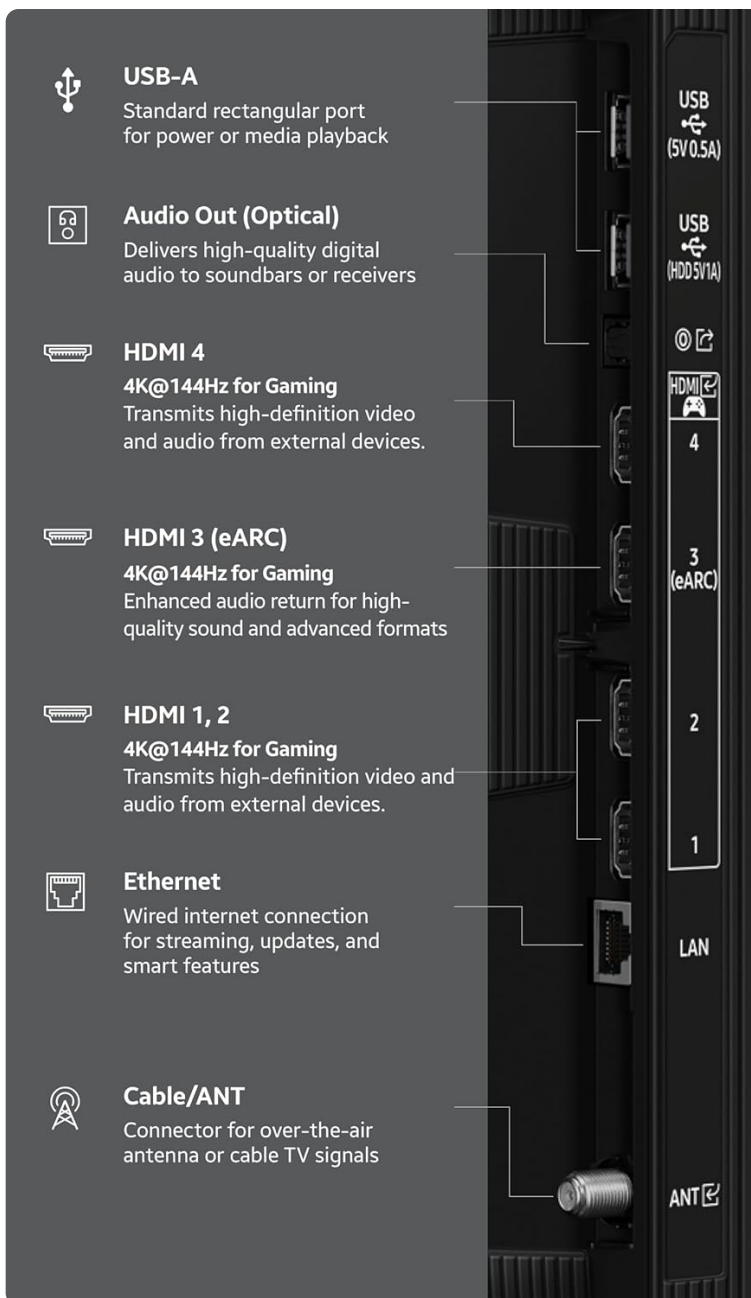
¹Samsung Vision AI is only available on 2025 Neo QLED 8K, Neo QLED, OLED, QLED and The Frame TV models. Samsung Vision AI features vary by TV model. AI Upscaling utilizes AI-based formulas. ²Samsung Account required for network-based smart services, including streaming apps and other smart features. Additional apps required. A 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. ³High speed internet connection, additional gaming service subscriptions and compatible controller required. ⁴Personal data includes directly input PIN-codes and passwords, and IoT device information shared through the SmartThings App. The latest software update is required.

The Smart TV interface provides access to numerous streaming services and content.

Connectivity

The TV offers multiple connectivity options for external devices:

- **HDMI Ports (4):** For connecting gaming consoles, Blu-ray players, soundbars, and other HDMI-enabled devices. HDMI 3 and 4 support eARC for enhanced audio return.
- **USB-A Ports:** For media playback from USB drives.
- **Audio Out (Optical):** For high-quality digital audio output to soundbars or receivers.
- **Ethernet (LAN):** For wired internet connection.
- **Bluetooth & Wi-Fi:** For wireless connectivity.



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Overview of the TV's input and output ports for connecting external devices.

Key Technologies

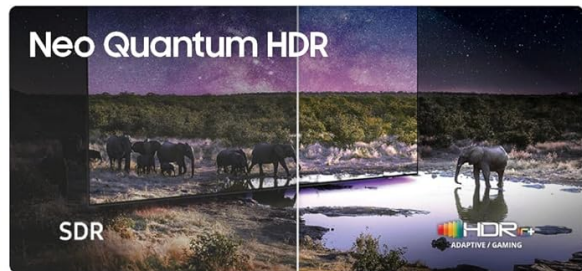
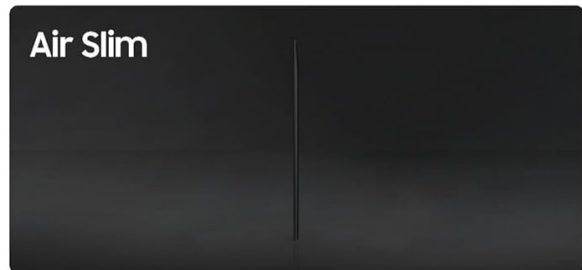
Experience superior picture and sound quality with the following integrated technologies:

- **NQ4 AI Gen2 Processor:** Utilizes 20 neural networks to enhance picture quality to 4K and optimize sound.
- **Quantum Matrix Technology Slim:** Precision-controlled Mini LEDs deliver sharp contrast and dazzling 4K color.
- **Motion Xcelerator 144Hz:** Ensures smooth visuals for sports and tear-free gaming at up to 4K 144Hz (PC connected games only).
- **4K AI Upscaling:** Boosts content to captivating 4K resolution using AI-based formulas.
- **Neo Quantum HDR:** Provides richer 4K picture with deeper blacks, vibrant colors, and dynamic contrast.
- **Samsung Vision AI:** Enhances picture, sound, and entertainment experiences.

SAMSUNG QN70F



KEY FEATURES



An overview of the Samsung QN70F's core technologies and features.

Official Product Video

This video provides an overview of the key features and capabilities of the Samsung QN70F Neo QLED TV, demonstrating its advanced picture and sound technologies.

MAINTENANCE

Cleaning the Screen

Gently wipe the screen with a soft, lint-free cloth. For stubborn marks, lightly dampen the cloth with water or a screen-cleaning solution specifically designed for electronics. Avoid using harsh chemicals or abrasive materials.

Cleaning the TV Body

Use a soft, dry cloth to clean the exterior of the TV. Do not spray water or cleaning solution directly onto the

TV.

Software Updates

Ensure your TV's software is up to date for optimal performance and access to the latest features. Updates can typically be performed through the TV's settings menu when connected to the internet.

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 the TV and the wall outlet. Test the outlet with another device.
No Picture/Sound from External Device	Ensure the correct input source is selected. Check HDMI/USB cable connections. Restart the external device.
Poor Picture Quality	Check source resolution. Adjust picture settings (brightness, contrast, sharpness). Ensure cables are not damaged.
No Internet Connection	Verify Wi-Fi password. Restart your router/modem. Check network settings on the TV.
Remote Control Not Working	Check or replace batteries. Ensure no obstructions between remote and TV. Re-pair the remote if necessary.

For more complex issues, consult the full online manual or contact Samsung customer support.

SPECIFICATIONS

Feature	Detail
Brand	Samsung
Model Number	QN55QN70FAFXZA
Screen Size	55 Inches
Display Technology	QLED
Resolution	4K
Refresh Rate	120 Hz (Up to 144Hz for PC connected games)
Product Dimensions (D x W x H)	9.7"D x 48.5"W x 30.1"H
Item Weight	33.1 Pounds

Feature	Detail
Connectivity Technology	Bluetooth, Wi-Fi, USB, Ethernet, HDMI
Special Features	Built-In Speaker, Game Mode, Samsung Vision AI
Included Components	User Manual, Stand, Remote Control, Power Cable

WARRANTY AND SUPPORT

Your Samsung TV comes with a limited manufacturer's warranty. For detailed warranty information, please refer to the warranty card included with your product or visit the official Samsung website.

For technical support, troubleshooting assistance, or service requests, please contact Samsung Customer Service. Contact information can be found on the Samsung support website or in your product documentation.

Online resources such as FAQs, troubleshooting guides, and software downloads are also available on the Samsung support website.