Samsung QN90F

Samsung 115-Inch Neo QLED 4K Smart TV QN90F Series User Manual

Model: QN90F (QN115QN90FFXZA)

Introduction

This manual provides essential information for the setup, operation, and maintenance of your Samsung 115-Inch Class Neo QLED 4K Smart TV, QN90F Series. Please read this manual thoroughly to ensure proper use and to maximize your viewing experience. Keep this manual for future reference.

What's in the Box

Verify that all the following items are included with your television:

- Samsung 115-Inch Neo QLED 4K Smart TV
- Power Cable
- Remote Control (SolarCell™ Remote TM2560E)
- Stand Components
- User Manual (this document)

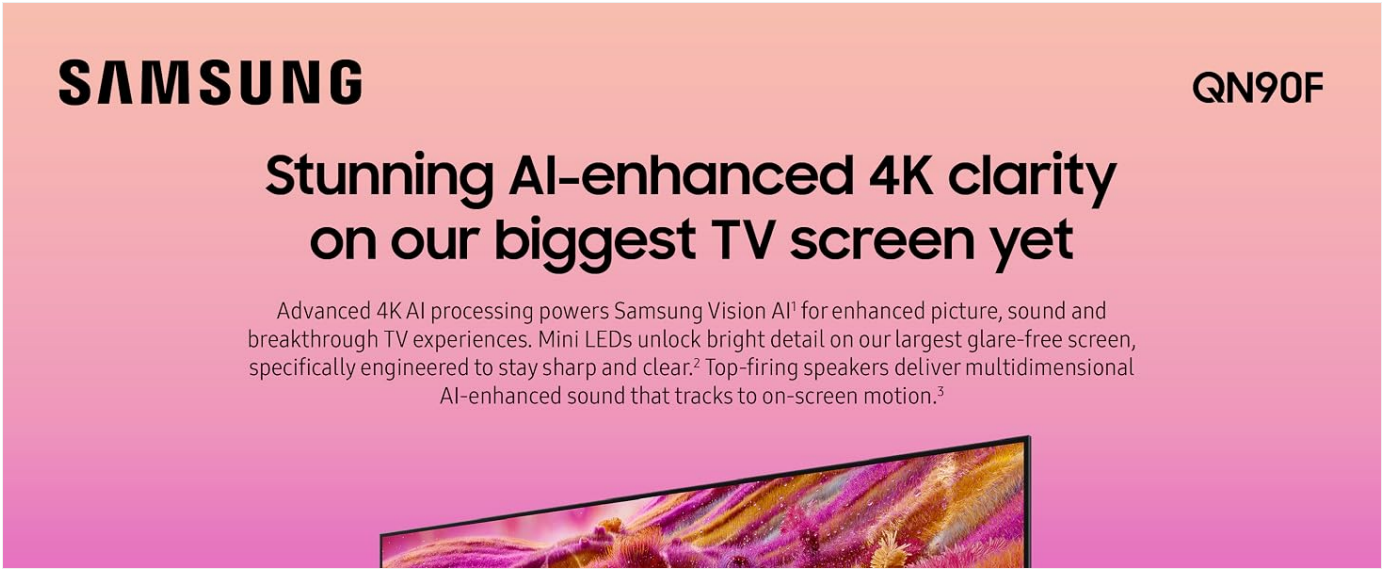


Image: Contents of the box and TV dimensions. This image illustrates the television unit, the included SolarCell remote, power cable, and user manual, along with key dimensions of the TV with and without its stand.

Setup

1. Stand Assembly or Wall Mounting

Carefully place the TV screen face down on a soft, flat surface. Attach the stand components according to the separate stand assembly guide provided in the packaging. Alternatively, for wall mounting, ensure you use a VESA-compliant wall mount (1000 x 600 mm standard) and follow the wall mount manufacturer's instructions. Professional installation is recommended for wall mounting this large display.

2. Connecting Devices

Connect your external devices such as cable/satellite boxes, Blu-ray players, gaming consoles, and sound systems to the appropriate ports on the back of the TV.

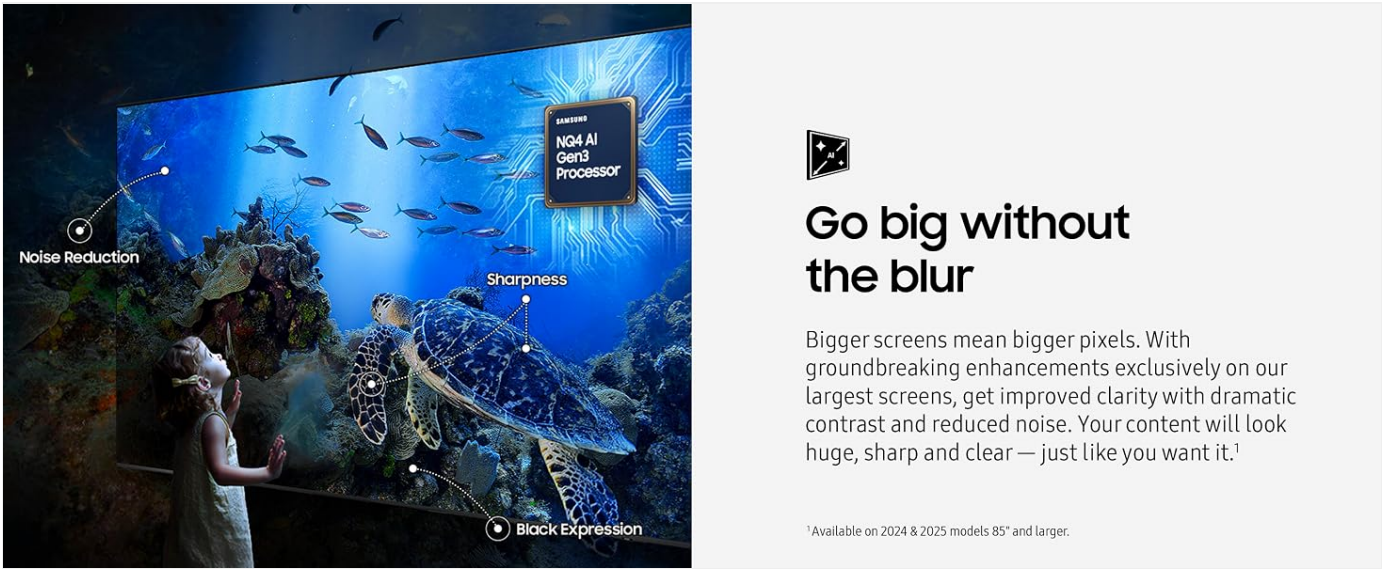


Image: Rear view of the Samsung QN90F TV showing various input and output ports. This includes USB-A ports for media playback, Audio Out (Optical) for soundbars, multiple HDMI 4K@165Hz ports for gaming and external devices, an Ethernet port for wired internet, an EX-Link port for service, and a Cable/ANT connector for broadcast signals.

- **HDMI Ports (1-4):** Connect high-definition devices. HDMI 3 and 4 support 4K@165Hz for gaming and eARC for enhanced audio return.

- **USB-A Ports:** For connecting USB storage devices for media playback or power.
- **Audio Out (Optical):** For connecting to a soundbar or AV receiver.
- **Ethernet (LAN):** For a wired internet connection.
- **Cable/ANT:** For connecting an antenna or cable TV.

3. Power Connection

Connect the power cable to the TV's power input and then to a wall outlet. Ensure the power cable is securely connected.

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), channel scanning, and smart features configuration. Follow the on-screen prompts.

Operating Instructions

Remote Control

The included SolarCell Remote (TM2560E) uses solar energy for charging. Point the remote at the TV and press the power button to turn the TV on or off. Use the directional pad and select button to navigate menus. Dedicated buttons provide quick access to streaming services and voice assistants.

Smart Hub and Applications

Access the Smart Hub to find streaming apps like Netflix, Prime Video, and YouTube. The Tizen operating system provides a tailored experience with personalized recommendations. Ensure your TV is connected to the internet for full Smart Hub functionality.

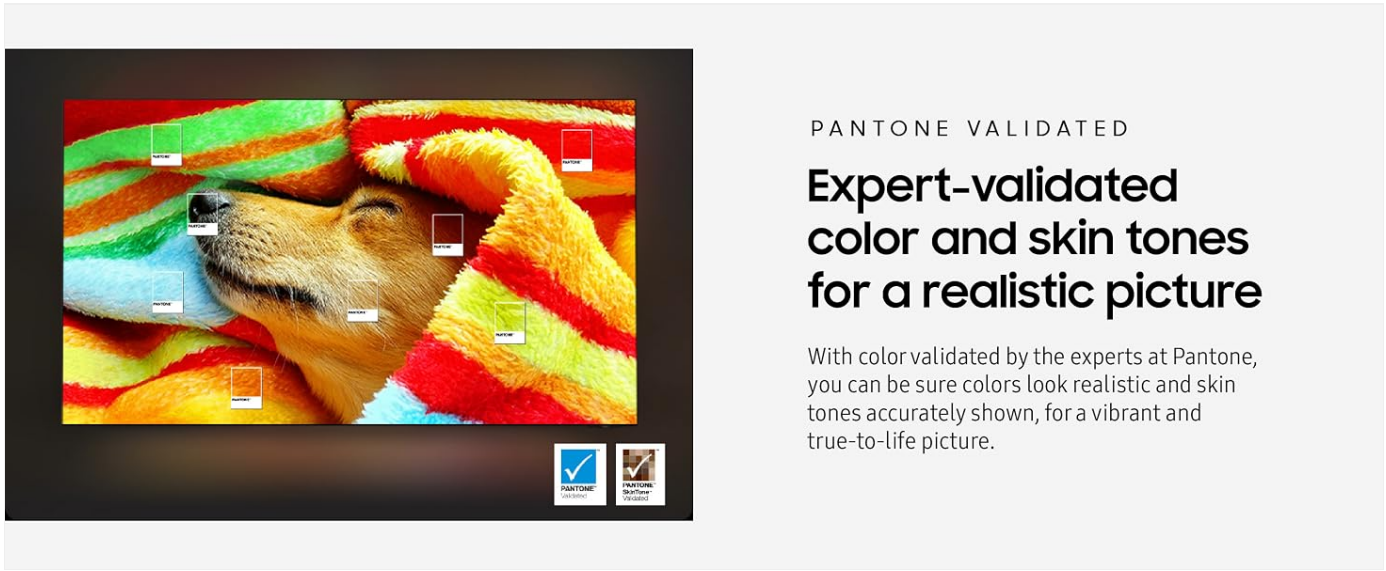


Image: The One UI Tizen smart TV interface, showing a personalized screen with streaming applications and content tailored to the user.

Picture and Sound Settings

Navigate to the TV's settings menu to adjust picture modes (e.g., Standard, Dynamic, Movie), brightness, contrast, and color. For audio, select sound modes, adjust bass/treble, and configure Dolby Atmos settings for an immersive experience. The TV features Object Tracking Sound+ for dynamic audio that follows on-screen action.

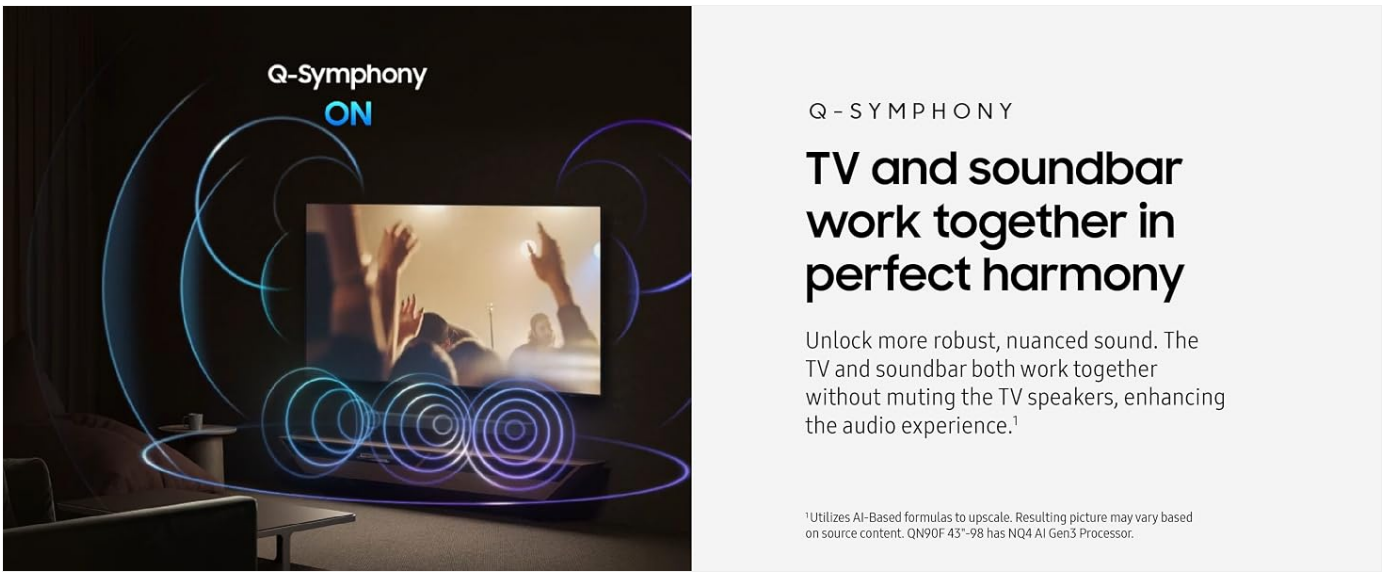


Image: Object Tracking Sound+ feature, depicting sound waves originating from specific points on the screen to create a dynamic and realistic audio experience that tracks on-screen action.

Gaming Features

The Gaming Hub provides a central location for your games. The TV supports up to 4K 144Hz refresh rate for compatible PC games and features Motion Xcelerator 144Hz for smooth motion. AI Auto Game Mode optimizes settings automatically, and the Game Bar allows fine-tuning of settings during gameplay. FreeSync Premium Pro ensures tear-free, low-latency HDR gaming.

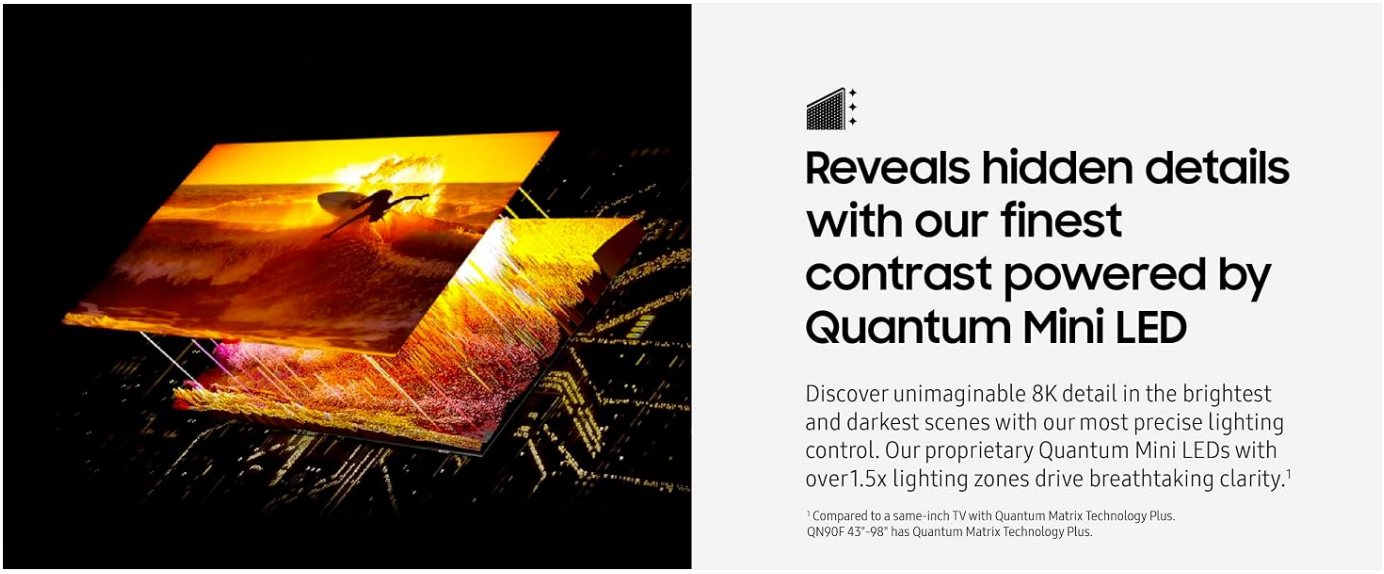


Image: The Gaming Hub interface, showcasing a selection of game titles and cloud gaming services available directly on the TV without a console.

Maintenance

Cleaning the Screen

Before cleaning, unplug the power cord. Gently wipe the screen with a soft, dry microfiber cloth. For stubborn smudges, lightly dampen the cloth with distilled water or a specialized screen cleaner. Never spray liquid directly onto the screen.

Cleaning the TV Frame and Stand

Use a soft, dry cloth to wipe the TV frame and stand. Avoid using abrasive cleaners, waxes, or solvents as they can damage the finish.

Remote Control Care

Keep the SolarCell Remote exposed to light for optimal charging. Clean with a soft, dry cloth. Avoid exposing it to excessive moisture or extreme temperatures.

Troubleshooting

Problem	Possible Solution
No Power	Ensure the power cable is securely connected to both the TV and the wall outlet. Check if the outlet is functioning by plugging in another device.
No Picture/Sound	Verify that the correct input source is selected. Check all HDMI or other connection cables for secure connections. Restart connected devices.
Remote Control Not Working	Ensure there are no obstructions between the remote and the TV. Check if the SolarCell Remote is charged by exposing it to light. Try pairing the remote again if necessary (refer to the TV's on-screen guide for pairing instructions).
Poor Wi-Fi Connection	Move the Wi-Fi router closer to the TV or consider using a wired Ethernet connection. Restart your router and modem.
Picture Glare/Reflections	The QN90F features a Glare Free screen. Ensure the room lighting is not excessively bright or directly aimed at the screen. Adjust TV position if possible.

Specifications

Feature	Detail
Model Name	QN90F
Model Number	QN115QN90FFXZA
Screen Size	115 Inches
Display Technology	Neo QLED
Resolution	4K (3840 x 2160)
Refresh Rate	120 Hz (up to 144Hz for PC connected games)
Processor	NQ8 AI Gen3 Processor
HDR Format Supported	HDR10+, Neo Quantum HDR Pro
Operating System	Tizen
Audio Output	60 Watts, 5.1 Channels, Dolby Atmos, Object Tracking Sound+
Connectivity	4x HDMI (4K@165Hz), 2x USB, Ethernet, Wi-Fi, Bluetooth 5.3
Dimensions (W x H x D) with Stand	100.9" x 60" x 18.4"

Feature	Detail
Dimensions (W x H x D) without Stand	100.9" x 57.8" x 1.3"
Weight (without Stand)	184.5 Pounds
VESA Mount Standard	1000 x 600 mm
Included Components	Power Cable, Remote Control, Stand, User Manual

Warranty and Support

Warranty Information

Your Samsung 115-Inch Neo QLED 4K Smart TV QN90F Series is covered by a**1 Year Manufacturer's Limited Warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the warranty card included with your product or visit the official Samsung support website.

Customer Support

For technical assistance, troubleshooting, or service requests, please contact Samsung Customer Support. You can find contact information and additional resources on the official Samsung website: www.samsung.com/us/support/. Please have your model number (QN115QN90FFXZA) and serial number ready when contacting support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question