

SAMSUNG QN85QN85BAFXZA

SAMSUNG 85-Inch Class Neo QLED 4K QN85B Series Smart TV

USER MANUAL

1. Introduction

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your SAMSUNG 85-Inch Class Neo QLED 4K QN85B Series Smart TV (Model: QN85QN85BAFXZA). Please read this manual thoroughly before using your television to ensure safe and optimal performance.

The QN85B Series features Neo QLED technology with Mini LEDs for precise light control, Quantum HDR 24x for dynamic contrast, Dolby Atmos for immersive sound, and the Neo Quantum Processor with 4K Upscaling for enhanced picture quality. It also includes Motion Xcelerator Turbo+ for smooth motion and integrated voice assistants like Alexa.



Image: Front view of the SAMSUNG 85-Inch Class Neo QLED 4K QN85B Series Smart TV.

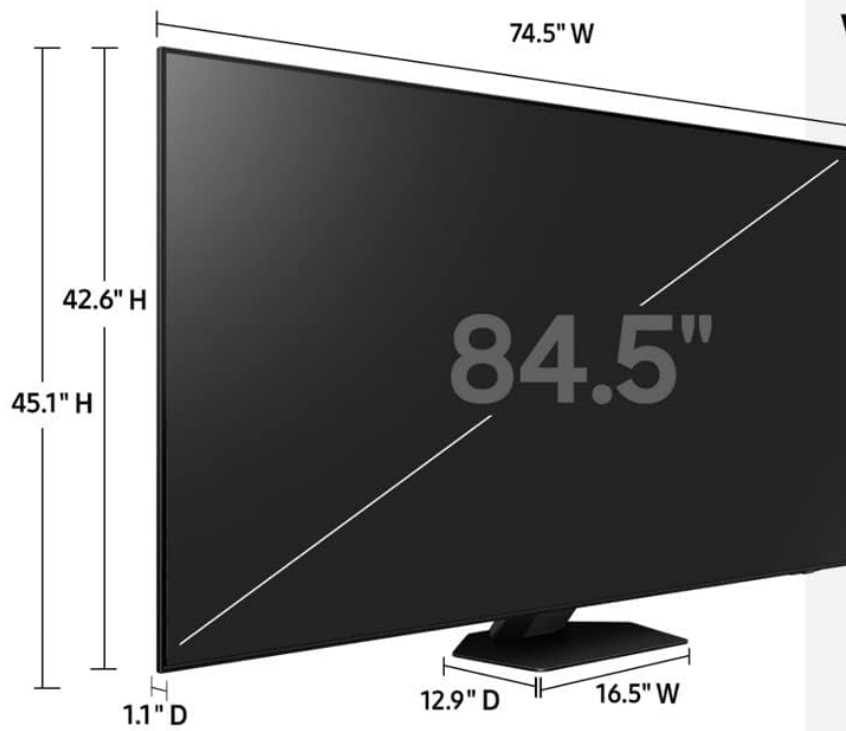
2. Setup

2.1 Unpacking and Inspection

Carefully remove the television from its packaging. Inspect all components for any signs of damage. Ensure all listed accessories are present, including the SolarCell Remote™ TM-2280E, power cable, and user manual.

2.2 Physical Installation

You can install your TV on a stand or mount it on a wall. For stand installation, follow the instructions provided in the separate stand assembly guide. Ensure the stand is securely attached and placed on a stable, level surface. For wall mounting, use a VESA-compliant wall mount kit (sold separately) and consult a professional for installation to prevent injury or damage.



What's in the box:

- Power Cable
- User Manual
- SolarCell Remote™ TM2280E (pictured below)



Dimensions:

(INCHES W x H x D):

- TV Without Stand: 74.5 x 42.6 x 1.1
- TV With Stand: 74.5 x 45.1 x 12.9
- Stand Footprint: 16.5 x 10.6 x 12.9

Stand height not shown in visual

Features and specifications subject to change.

Image: Diagram showing the dimensions of the 85-inch TV with and without the stand, and a list of included accessories such as the SolarCell Remote.

2.3 Connecting Peripherals

Connect your external devices such as Blu-ray players, game consoles, soundbars, or cable boxes to the appropriate ports on the back of the TV. The QN85B series includes multiple HDMI ports (including HDMI 2.1 for 4K@120Hz support), USB ports, a LAN port for wired internet, and an antenna input.



Quantum Matrix Technology

**The pinnacle of ultra-fine
light control**

Image: Close-up view of the rear input/output ports on the SAMSUNG QN85B TV, including HDMI, USB, LAN, and antenna connections.

2.4 Initial Power On and Voice Assistant Setup

After connecting the power cable, turn on the TV. The initial setup wizard will guide you through network connection, channel scanning, and voice assistant selection. You can choose between Bixby, Amazon Alexa, or Google Assistant. If you select Amazon Alexa, follow the on-screen prompts to link your Amazon account by scanning a QR code or entering a code on the Amazon website.

3. Operating

3.1 Smart Hub Navigation

The Smart Hub is your central access point for apps, streaming services, live TV, and connected devices. Use your remote to navigate the intuitive interface. You can customize the order of apps and access various content categories.

Multi View

See it all on one screen

Watch up to two things at once on your TV, including what's on your mobile device. Whether it's live stats for the sports you're watching or cheat videos while you play a game, see them all simultaneously on the big screen.



*Feature availability will vary by mobile device.

Image: The Smart Hub interface on a SAMSUNG TV, displaying various streaming app icons and content recommendations.

3.2 Picture Settings and Technologies

- **Quantum Matrix with Mini LEDs:** This technology precisely controls individual zones of light, delivering breathtaking color and contrast, even in bright environments.

SAMSUNG NEO QLED

2022 QN85B

Full range of neo vision enriches your viewing experience



Image: Visual representation of Quantum Matrix Technology, showing precise light control with Mini LEDs for enhanced detail.

- **Neo Quantum Processor with 4K Upscaling:** An intelligent processor that uses AI-based deep learning to analyze and optimize content to spectacular 4K resolution.



Image: A microchip labeled 'Neo Quantum Processor 4K' representing the intelligent processing unit.

- **Quantum HDR 24x:** Experience dynamic contrast and a rich spectrum of hues, bringing details to life in

movies and shows.

Quantum Matrix with Mini LEDs

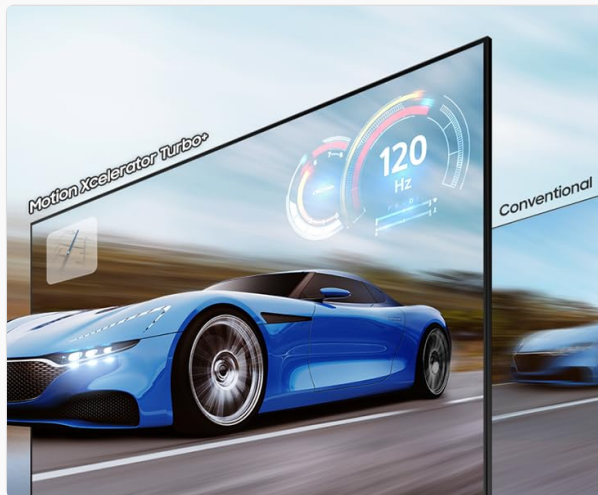
The pinnacle of ultra-fine light control

Brilliant details shine even in daylight with Quantum Matrix Technology. Powered by a huge grid of ultra-precise Quantum Mini LEDs made for Samsung Neo QLED 4K, individual light zones are carefully controlled to create incredible color and contrast on this Mini LED TV.



Image: A vibrant landscape scene on a TV screen demonstrating the dynamic contrast and vivid colors of Quantum HDR 24x.

- **Real Depth Enhancer:** Mirrors how the human eye processes depth by increasing foreground contrast, making content feel more life-like.



Motion Xcelerator Turbo+

Exceptional motion enhancements in 4K 120Hz

Action movies, sports and games look smooth and crisp up to 4K 120Hz. With Motion Xcelerator Turbo+ enhancements, you'll virtually eliminate your lag and lessen blur to conquer your enemies and follow any chase, even at soaring speeds.

Image: Visual comparison showing how Real Depth Enhancer adds three-dimensional depth to images by enhancing foreground contrast.

- **EyeComfort Mode:** Intelligently adapts the display and reduces blue light based on sunrise and sunset times, helping to keep your eyes more comfortable.

Real Depth Enhancer

3-dimensional depth with powerful neural networks

Experience depth and dimension on your screen just like you do in real life. Real Depth Enhancer mirrors how the human eye processes depth by increasing foreground contrast making your content feel more life-like than ever.

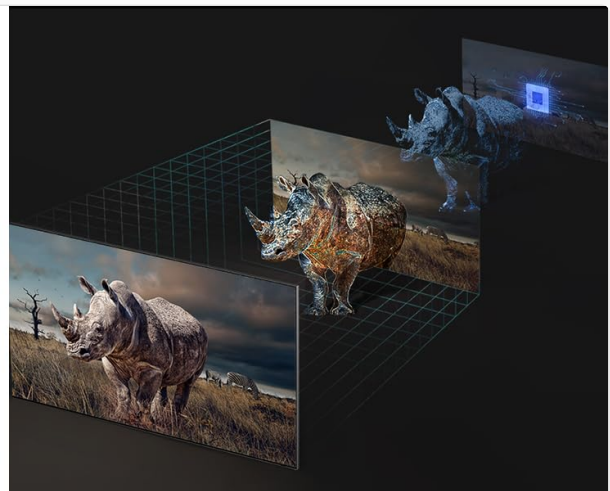


Image: A split screen showing a conventional TV display versus EyeComfort Mode, illustrating reduced blue light and adjusted color temperature.

3.3 Audio Settings and Features

- **Dolby Atmos & Object Tracking Sound:** Enjoy rich, vibrant 3D sound that moves with the on-screen action, creating a realistic and immersive audio experience.

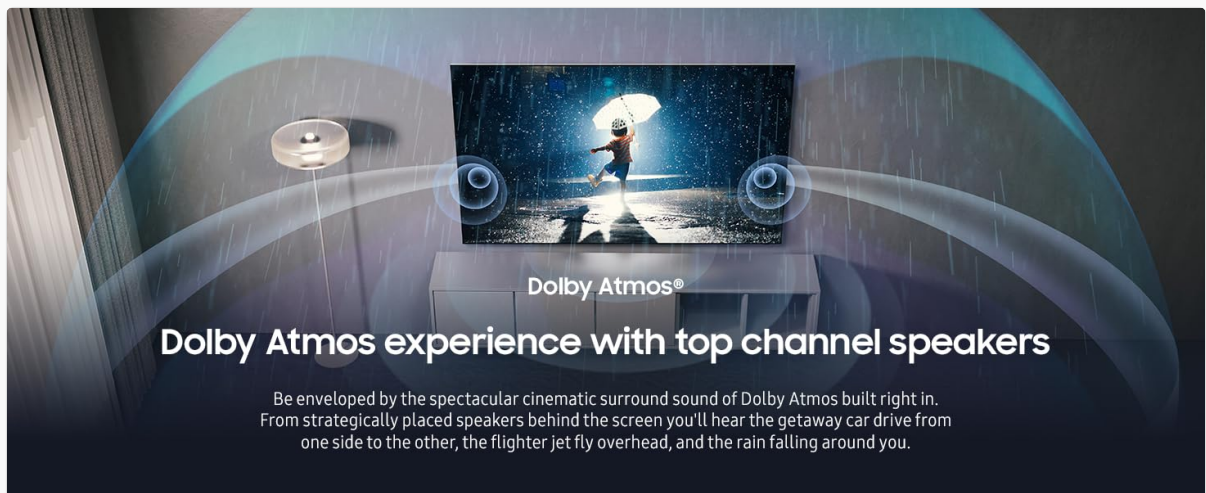


Image: A TV screen showing a rainy scene, with visual cues indicating sound moving around the room, representing the Dolby Atmos experience.

- **Q-Symphony:** When paired with a compatible Samsung Q-Series soundbar, your TV speakers and soundbar operate as one, optimizing all channels for a masterfully orchestrated audio experience.



EyeComfort Mode

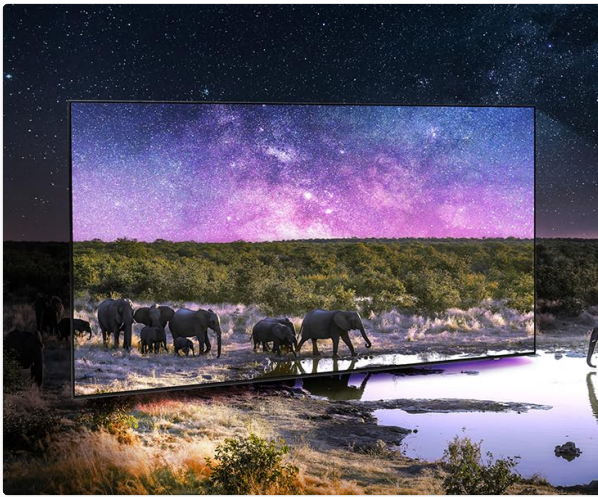
Intelligent picture optimized for your eye

Staring at your TV? Set your sights on a more soothing screen with Comfort Mode. With sunrise and sunset times built in, it intelligently adapts your display and reduces blue light to keep your eyes more comfortable.

Image: A TV displaying an orchestra, with a soundbar below, illustrating the synchronized audio output of Q-Symphony.

3.4 Gaming Features

- **Motion Xcelerator Turbo+:** Ensures action movies, sports, and gaming look smooth and crisp up to 4K at 120Hz, virtually eliminating lag and lessening blur.



Quantum HDR 24x

Dynamic contrast for vivid colors that jump off the screen

Enjoy dynamic contrast and vivid colors that jump off the screen. Quantum HDR 24x delivers an awe-inspiring spectrum of hues to make your Hollywood movies in HDR come alive.

Image: A racing game scene on a TV, highlighting the smooth motion provided by Motion Xcelerator Turbo+ at 120Hz.

- **FreeSync Premium Pro:** Delivers tear-free, stutter-free, low-latency HDR gaming for peak performance.

NeoSlim Design

Elegant profile in modern, sleek silhouette

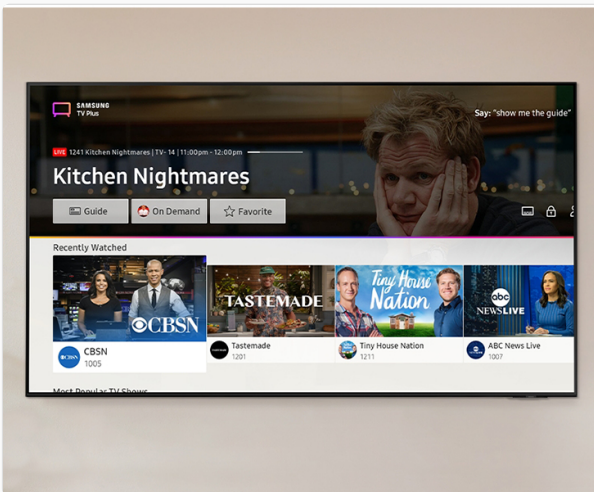
Ultra-slim with a curved back panel for a modern silhouette, the NeoSlim Design is beautiful from all angles in any space.



Image: A high-speed car racing game on a TV screen, indicating the smooth, tear-free experience with FreeSync Premium Pro.

3.5 Smart Features

- **Multiple Voice Assistants:** The TV comes with Bixby, Amazon Alexa, and Google Assistant built-in, allowing for hands-free control and interaction.



Samsung TV Plus

Free TV, no strings attached

Enjoy free live streaming TV with Samsung TV Plus. Included with all Samsung SmartTVs, choose from a variety of channels offering content for all interests that are currently in trend.

*Content services may vary by regions and are subject to change without notifications.

Image: A TV screen with icons for Bixby, Alexa, and Google Assistant, indicating built-in voice assistant capabilities.

- **Smart Calibration:** Achieve professional-quality screen calibration directly from your smartphone in minutes.



Q-Symphony

TV and soundbar orchestrated in perfect harmony

Surround yourself with the sound of your TV and soundbar working in harmony. With Q-Symphony, your TV speakers and Q Series soundbar operate as one, optimizing all channels to bring you a masterfully orchestrated audio experience.

*Q-Symphony is available only with compatible soundbar. Check for Q-Symphony compatibility on soundbar product specifications.

Image: A smartphone screen showing the Smart Calibration app, with a TV in the background, illustrating the calibration process.

- **Video Call Application:** Make video calls with up to 32 people using the Google Duo app on your TV, leveraging the large screen for high-quality picture and sound.

Smart Hub

Discover your favorite contents in one place

Spend less time searching and more time streaming what you enjoy with Samsung Smart Hub. You'll find the movies, shows, games, music and more you want most—organized and at your fingertips

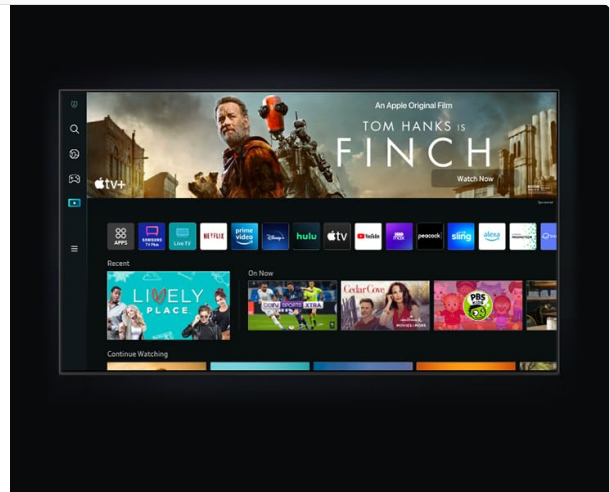
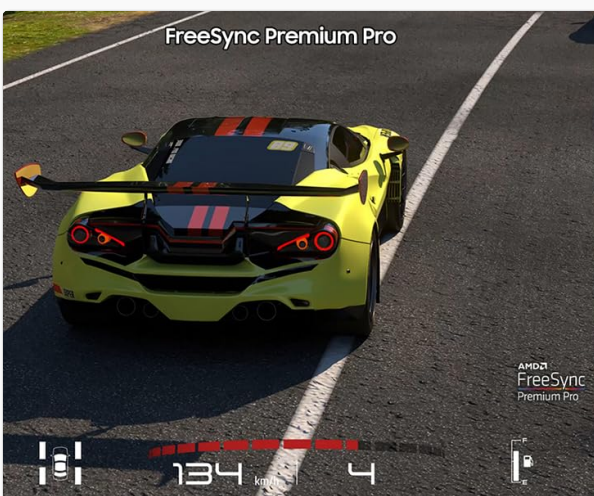


Image: A family making a video call on the TV screen using the Google Duo application.

- **Samsung TV Plus:** Enjoy free live streaming TV with a variety of channels, no strings attached.



FreeSync Premium Pro

Tear free, stutter free, low latency HDR gaming

Take down game lag, tearing and stuttering—with your TV and console teaming up. FreeSync Premium Pro helps you play at peak performance with low latency for a smooth gaming experience, plus HDR visuals.

Image: The Samsung TV Plus interface showing various live TV channels and content options.

- **Multi View:** Watch up to two things at once on your TV, including content from your mobile device, live sports, or game cheat videos.

Video Call Application

Make video calls on the big screen

Make video calls with up to 32 people from the Google Duo app on your TV. For work or play, it's easier to take calls from your home on the big screen with high quality picture and sound.



Image: A TV screen split into two sections, demonstrating the Multi View feature with content from a mobile device displayed alongside TV content.

4. Maintenance

4.1 Cleaning Your TV

To clean the screen, gently wipe it with a soft, lint-free cloth. For stubborn marks, lightly dampen the cloth with water or a screen-specific cleaning solution. Avoid using harsh chemicals, abrasive materials, or direct spraying onto the screen. For the TV frame and stand, use a soft, dry cloth.

4.2 Software Updates

Regularly check for and install software updates to ensure your TV has the latest features, performance enhancements, and security patches. You can usually find the update option in the TV's settings menu under 'Support' or 'Software Update'.

5. Troubleshooting

If you encounter issues with your TV, try the following basic troubleshooting steps before seeking professional assistance:

- **No Power:** Ensure the power cable is securely connected to both the TV and a working electrical outlet. Try plugging another device into the outlet to confirm it has power.
- **No Picture/Sound:** Check all cable connections (HDMI, audio, antenna) to ensure they are firmly seated. Verify that the correct input source is selected on the TV.
- **Remote Not Working:** Ensure the SolarCell Remote is charged (expose the solar panel to light) or try replacing batteries if it's a different model. Point the remote directly at the TV's remote sensor.
- **Network Connection Issues:** For Wi-Fi, check your router and ensure the TV is within range. For wired connections, verify the Ethernet cable is properly connected. Try restarting your router and TV.

For more detailed troubleshooting steps, refer to the E-Manual accessible through your TV's Smart Hub or Samsung's official support website.

6. Specifications

Feature	Specification
Brand	SAMSUNG
Model Number	QN85QN85BAFXZA
Screen Size	84.5 Inches
Display Technology	QLED
Resolution	4K
Refresh Rate	120 Hz
Product Dimensions (D x W x H)	12.9"D x 74.5"W x 45.1"H
Item Weight	108.7 Pounds
Connectivity Technology	USB, HDMI, LAN, Antenna
Speaker Type	2.2.2CH
Included Components	Power Cable, SolarCell Remote™ TM-2280E, User Manual / E-Manual

7. Warranty and Support

Your SAMSUNG TV comes with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Samsung support website. For technical support, product registration, or service requests, please contact Samsung Customer Service or visit their online support portal.

The included User Manual / E-Manual provides additional detailed information and can be accessed directly on your TV via the Smart Hub.