TCL 85QM851G

TCL 85-Inch QM85 QLED 4K Smart QD-Mini LED TV (85QM851G) User Manual

Model: 85QM851G

Introduction Features Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides essential information for the setup, operation, and maintenance of your TCL 85-Inch QM85 QLED 4K Smart QD-Mini LED TV, model 85QM851G. Please read this manual thoroughly before using your television to ensure proper functionality and to maximize your viewing experience. Keep this manual for future reference.



Image 1.1: Front view of the TCL 85-Inch QM85 QLED 4K Smart QD-Mini LED TV.

2. Key Features Overview

The TCL QM85 series television integrates advanced display and audio technologies to deliver a premium entertainment experience. Key features include:

- **4K UltraHD Resolution:** Provides four times the detail of 1080p Full HDTVs.
- **QD-Mini LED ULTRA:** Features up to 5,000 local dimming zones for enhanced contrast and deep blacks, powered by the TCL AIPQ PRO Processor.
- **QLED ULTRA Quantum Dot Technology:** Delivers rich, vibrant colors across a wide color spectrum.
- **High Brightness ULTIMATE LED Backlight:** Achieves up to 5,000 Nits peak brightness for dynamic images.
- **120Hz Panel Refresh Rate (144 Hz Variable Refresh Rate):** Ensures smooth motion for movies, sports, and gaming.
- **TCL AIPQ PRO Processor with Deep Learning AI:** Optimizes color, contrast, and clarity.
- **HDR ULTRA with Dolby Vision IQ, HDR10+, HDR10, & HLG:** Supports multiple HDR formats for enhanced picture quality.
- **Motion Rate 480 with MEMC Frame Insertion:** Improves motion clarity.
- **Game Accelerator 240 & Auto Game Mode (ALLM) with AMD FreeSync Premium Pro:** Provides responsive and low-latency gaming.
- **Dolby Atmos, DTS Virtual:X, and ONKYO Speaker System:** Integrated audio system with up-firing drivers and a built-in subwoofer for immersive sound.



Image 2.1: Illustration of QD-Mini LED ULTRA technology with high zone dimming for contrast.



Image 2.2: Comparison illustrating QLED ULTRA's vibrant colors versus conventional TV.



Image 2.3: Scene demonstrating HDR Ultra with Dolby Vision IQ for cinematic picture quality.

3. Setup

3.1. Unpacking and Included Components

Carefully remove the television from its packaging. Ensure all components are present before proceeding with assembly.

Included Components:

- TCL TV with Google TV
- TV Stands (Stand Neck Component, Stand Plate)
- Power Cable
- TV Remote
- 2x AAA TV Remote Batteries
- Quick Start Guide



Image 3.1: Diagram showing TV dimensions and a list of included components.

3.2. Stand Installation

1. Place the TV screen-down on a soft, flat surface to prevent damage.
2. Attach the stand neck component to the TV using the provided screws.
3. Secure the stand plate to the neck component.
4. Ensure all screws are tightened securely.

3.3. Wall Mounting (Optional)

If wall mounting, refer to the wall mount kit's instructions. Ensure the mount is compatible with the TV's VESA pattern and weight. Professional installation is recommended for wall mounting large televisions.

3.4. Connecting Peripherals

Connect external devices such as Blu-ray players, gaming consoles, sound systems, and network cables to the appropriate ports on the TV.

- **HDMI:** For high-definition audio and video devices.

- **USB:** For connecting USB storage devices.
- **Ethernet:** For a wired internet connection.
- **Power Cable:** Connect the power cable to the TV and then to a power outlet.



Image 3.2: Detailed view of the connectivity ports located on the rear of the television.

3.5. Initial Power On and Google TV Setup

1. Plug the power cable into an electrical outlet.
2. Press the power button on the remote control or on the TV.
3. Follow the on-screen instructions to complete the initial setup, including language selection, network connection (Wi-Fi or Ethernet), and Google TV account login.

4. Operation

4.1. Remote Control Functions

The included remote control provides access to all TV functions. Insert the two AAA batteries into the remote,

observing polarity.

- **Power Button:** Turns the TV on or off.
- **Navigation Pad:** Used to navigate menus and select items.
- **Google Assistant Button:** Activates voice control.
- **Volume Up/Down:** Adjusts audio volume.
- **Channel Up/Down:** Changes TV channels.
- **Home Button:** Returns to the Google TV home screen.
- **Input Button:** Selects input sources (HDMI, AV, etc.).

4.2. Navigating Google TV Interface

The Google TV interface organizes content from various streaming services and apps. Use the remote's navigation pad to browse recommendations, access your installed apps, and manage settings.

4.3. Picture Settings

Access the picture settings menu to customize your viewing experience. Recommended settings for optimal quality:

- **Picture Mode:** Select modes like 'Movie' or 'Filmmaker Mode' for accurate color reproduction.
- **Brightness:** Adjust to suit your room's lighting conditions.
- **Contrast:** Fine-tune for detail in bright and dark areas.
- **Color Temperature:** 'Warm' settings are generally preferred for cinematic content.
- **Motion Settings:** Adjust Motion Rate 480 and MEMC Frame Insertion for desired motion smoothness.



Image 4.1: Illustration of Motion Rate 480 with MEMC Frame Insertion for improved motion clarity.

4.4. Sound Settings

The TV features an integrated ONKYO speaker system with up-firing drivers and a built-in subwoofer, supporting Dolby Atmos and DTS Virtual:X.

- **Sound Mode:** Choose from various sound modes (e.g., Standard, Movie, Music, Voice) to optimize audio for different content.
- **Dolby Atmos:** Enable for immersive, multi-dimensional audio when available from content sources.



Image 4.2: Diagram illustrating the 2.1.2 channel speaker system with up-firing speakers and a built-in subwoofer.

4.5. Gaming Features

The TV is equipped with features to enhance the gaming experience:

- **Game Accelerator 240:** Provides up to 240 VRR (Variable Refresh Rate) for smoother gameplay.
- **Auto Game Mode (ALLM):** Automatically switches to low-latency mode when a gaming console is detected.
- **AMD FreeSync Premium Pro:** Reduces screen tearing and stuttering for compatible graphics cards.



Image 4.3: Visual representation of Game Accelerator 240 in action during gameplay.

4.6. Voice Control

Utilize the built-in Google Assistant for voice commands. Press the Google Assistant button on your remote and speak into the microphone to search for content, control smart home devices, or get information.

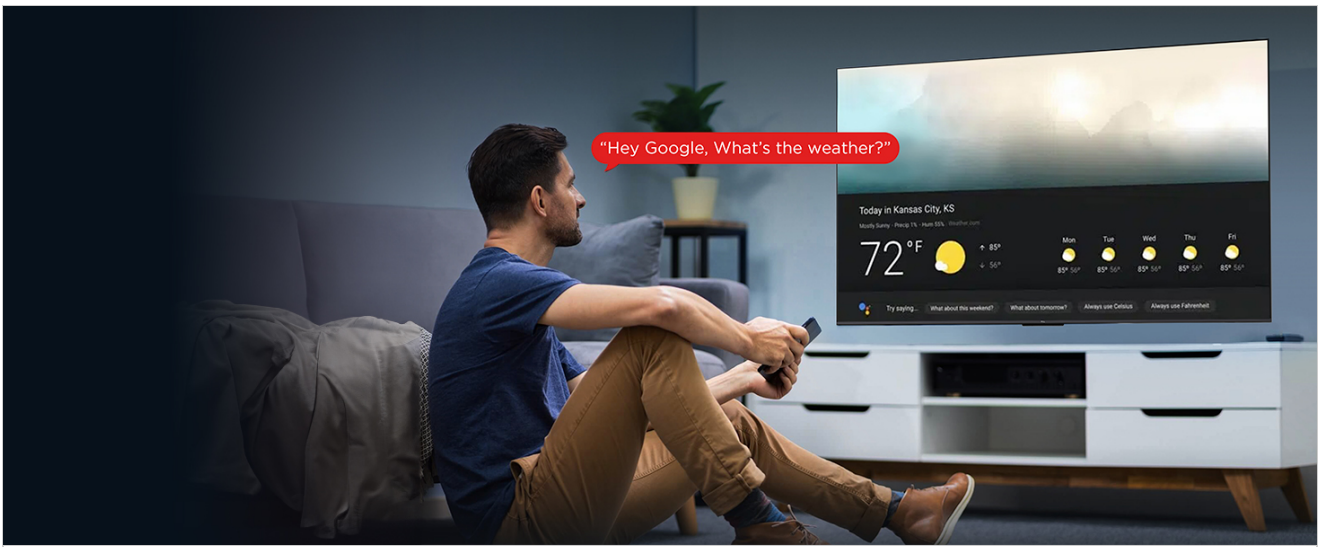


Image 4.4: A user interacting with Google TV using voice commands.

5. Maintenance

5.1. Cleaning the Screen

To clean the screen, gently wipe it with a soft, lint-free cloth. For stubborn marks, lightly dampen the cloth with water or a specialized screen cleaner. Avoid using harsh chemicals, abrasive materials, or direct spraying onto the screen.

5.2. Cleaning the TV Body

Wipe the TV's frame and back panel with a soft, dry cloth. Do not use liquid cleaners directly on the TV body.

5.3. Software Updates

Periodically check for software updates through the TV's settings menu. Updates can improve performance, add new features, and resolve issues. Ensure the TV is connected to the internet during updates and do not power off the TV until the update is complete.

6. Troubleshooting

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

Problem	Possible Cause	Solution
No Power	Power cable disconnected, power outlet issue.	Ensure power cable is securely connected. Test the outlet with another device.
No Picture, but Sound is Present	Incorrect input source, faulty HDMI cable.	Verify the correct input source is selected. Check HDMI cable connections.
No Sound, but Picture is Present	Volume muted or too low, external audio system issue.	Unmute the TV or increase volume. Check connections to external audio devices.
Remote Control Not Working	Dead batteries, obstruction, remote not paired.	Replace batteries. Remove obstructions. Re-pair the remote if it's a Bluetooth model.
Network Connection Issues	Wi-Fi signal weak, incorrect password, router issue.	Check Wi-Fi signal strength. Re-enter Wi-Fi password. Restart your router.

If the problem persists after attempting these solutions, please contact TCL customer support for further assistance.

7. Specifications

Feature	Detail
Brand	TCL
Model Number	85QM851G
Screen Size	85 inches
Display Technology	QD Mini-LED, QLED
Resolution	4K UltraHD (3840 x 2160)
Refresh Rate	120Hz Native (144Hz Variable Refresh Rate)
Processor	TCL AIPQ PRO Processor
HDR Support	Dolby Vision IQ, HDR10+, HDR10, HLG
Audio System	ONKYO Speaker System with Up-Firing Speakers & Built-In Subwoofer, Dolby Atmos, DTS Virtual:X
Smart TV Platform	Google TV
Voice Assistant	Google Assistant (Works with Alexa)
Connectivity	HDMI, USB, Ethernet, Wi-Fi, Bluetooth
Dimensions (with stand)	74.29" W x 44.2" H x 16.5" D
Dimensions (without stand)	74.29" W x 42.68" H x 1.34" D

Feature	Detail
Item Weight	144.7 pounds

8. Warranty & Support

8.1. Product Warranty

Your TCL television is covered by a limited manufacturer's warranty. Please refer to the warranty card included with your product or visit the official TCL website for detailed terms and conditions regarding coverage, duration, and service procedures.

8.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact TCL customer support. Contact information can typically be found on the TCL website or in the quick start guide provided with your TV.

Online Resources:

- Visit the official TCL support website for FAQs, software downloads, and additional resources.

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