

TCL 55QM7K, S45H

TCL 55-Inch QM7K QLED 4K Smart QD-Mini LED TV and S45H Sound Bar User Manual

Model: 55QM7K TV and S45H Sound Bar

Brand: TCL

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for setting up, operating, and maintaining your TCL 55-Inch QM7K QLED 4K Smart QD-Mini LED TV and S45H S Class 2.0 Channel Sound Bar. Please read this manual thoroughly to ensure proper use and to maximize your product's performance.

The TCL QM7K TV features QD-Mini LED technology, combining QLED and OLED benefits for precise, pixel-level lighting. It incorporates the 'Halo Terminator' with all-domain halo control, a new generation of powerful light-emitting chips, condensed Micro lens, and Micro-OD for deeper blacks and higher brightness, significantly reducing blooming compared to ordinary zones. The new HVA panel offers improved contrast and wide viewing angles.

The included S45H S Class 2.0 Channel Sound Bar enhances your audio experience with Dolby Atmos and DTS Virtual:X for spatial sound, delivering up to 100 Watts of total power for immersive audio.



Image: TCL QM7K QLED 4K Smart QD-Mini LED TV with NFL branding and S45H Sound Bar. The TV screen displays a vibrant image with text indicating 'UP TO LD2500 PRECISE DIMMING SERIES', 'CRYSTGLOW HVA PANEL', and 'Audio by BANG & OLUFSEN'.

2. SETUP

2.1 Physical Setup

The TCL QM7K TV features a single pedestal stand in the center, allowing it to be placed on various media stands. Alternatively, it supports wall mounting for flexible placement. The TV has a thin border around the screen, contributing to its sleek design.

2.2 Initial Power-On and Connectivity

Upon first power-on, the TV will guide you through the initial setup process, including connecting to your home network and integrating with Google TV. The TV is equipped with four HDMI inputs, two of which are HDMI 2.1 compatible, and one supports eARC for enhanced audio return. The rear panel of the TV is designed for efficient wire management, ensuring a clean setup whether on a stand or wall-mounted.



Image: Rear view of the TCL QM7K TV, showing the input ports on the side and the grid pattern on the back panel. The design allows for organized cable routing.

3. OPERATING INSTRUCTIONS

3.1 Picture Quality and Processing

The QM7K TV offers excellent picture reproduction. Its advanced processing ensures a zero-delay transient response time, meaning the image processing is fast and efficient, leading to a higher performance picture. The HVA panel provides great viewing angles, ensuring a consistent picture quality from various positions in your room.

For optimal picture quality, especially with high bit-rate content from streaming services like Netflix, Hulu, or Disney+, the TV is designed to reproduce the best possible image. The TV also performs well with lower resolution content, utilizing its upscaling capabilities to bring 480p, 720p, and 1080p sources closer to 4K quality. While 4K native content will always provide the absolute best picture, the upscaling is designed to enhance older content significantly.

3.2 Sound Quality

The TV's audio system is powered by Bang & Olufsen, featuring four speakers and 40 watts of power. The S45H Sound Bar provides a 2.0 Channel audio experience with Dolby Atmos and DTS Virtual:X for immersive sound, delivering up to 100 Watts of total power.

3.3 Gaming Features

For gamers, the QM7K supports up to 144Hz refresh rate and includes a Game Accelerator feature that can push up to 288Hz using motion controls. This helps to eliminate screen tearing and smearing, providing a smoother gaming experience. The TV's motion handling is highly adjustable, allowing users to fine-tune settings like blur and judder reduction to achieve the desired clarity.

3.4 Smart Features and HDR Support

The TV runs on Google TV, offering a user-friendly interface and access to a wide range of streaming applications. It comes with a backlit voice remote control for convenient navigation. An Art Gallery mode is available to display content when the TV is not actively being watched.

The QM7K supports various HDR formats, including Dolby Vision IQ, Dolby Vision, HDR10+, HDR10, and HLG, ensuring compatibility with a broad spectrum of high-dynamic-range content for enhanced contrast and color.

4. MAINTENANCE

To maintain the performance and longevity of your TCL TV and Sound Bar, regular cleaning is recommended. Use a soft, dry cloth to wipe the screen and exterior surfaces. Avoid using harsh chemicals or abrasive materials.

Ensure proper ventilation around the TV and Sound Bar to prevent overheating. Keep the wire management organized to prevent tangles and damage to cables.

5. TROUBLESHOOTING

5.1 Motion Clarity (Soap Opera Effect)

If you experience the 'soap opera effect' (excessive smoothness in motion), you can adjust the motion clarity settings in the TV's picture menu. Different picture modes (e.g., Filmmaker Mode, Standard, Sports, Movie, Vivid) have varying motion processing. Experiment with these modes or customize the motion clarity settings (Blur Reduction, Judder Reduction) to suit your preference.

5.2 Screen Uniformity (Dirty Screen Effect)

During specific test patterns, you might observe slight variations in screen uniformity (sometimes referred to as 'dirty screen effect'). This is common with display technologies and is typically not noticeable during normal viewing of diverse content. These are test conditions designed to push the display's limits and do not reflect everyday performance.

6. SPECIFICATIONS

Feature	Specification
Brand	TCL

Model Name	55QM7K (TV), S45H (Sound Bar)
Resolution	4K
Aspect Ratio	16:9
Mounting Type	Table Mount, Wall Mount
Year	2025
Image Contrast Ratio	High
Audio Input	HDMI
Surround Sound Channel Configuration	2.0 (Sound Bar)
Peak Brightness (55"/65" models)	Up to 2600 NITS
Peak Brightness (75"/85"/98"/115" models)	Up to 3000 NITS

7. WARRANTY AND SUPPORT

Your TCL 55-Inch QM7K QLED 4K Smart QD-Mini LED TV and S45H Sound Bar come with a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included in your product packaging or visit the official TCL support website.

For technical assistance, troubleshooting, or service requests, please contact TCL Customer Support. Have your model number (55QM7K) and serial number ready when contacting support.