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TCL 55Q651G

TCL 55-Inch Q65 QLED 4K UHD Smart TV User Manual

Model: 55Q651G (2024 Model)
Brand: TCL

Overview Setup Operating Maintenance Troubleshooting Specifications Support

1. Product Overview

The TCL Q6 Class Smart TV (Model 55Q651G) offers a premium viewing experience with advanced picture and sound technologies. This 55-inch QLED 4K UHD Smart TV integrates Google TV for seamless entertainment access and features designed for both cinematic enjoyment and responsive gaming.



Figure 1.1: Front view of the TCL 55-Inch Q65 QLED 4K UHD Smart TV.

Key Features:

- **4K UltraHD Resolution:** Delivers four times the detail of 1080p Full HD.

- **QLED PRO Quantum Dot Technology:** Provides rich, vibrant colors across a wide color spectrum.
- **High Brightness+ LED Backlight:** Enhances brightness for an improved viewing experience in various lighting conditions.
- **TCL AIPQ Processor with Deep Learning AI:** Optimizes color, contrast, and clarity for an enhanced 4K HDR experience.
- **HDR PRO+ with Dolby Vision, HDR10+, HDR10, & HLG:** Supports multiple advanced HDR formats for superior contrast and detail.
- **Motion Rate 240 with MEMC Frame Insertion:** Ensures clear and smooth motion clarity for fast-paced content.
- **Game Accelerator 120 & Auto Game Mode (ALLM):** Reduces input lag for responsive gaming.
- **Dolby Atmos Audio & DTS Virtual:X:** Provides immersive 3D sound.
- **Enhanced Dialogue Mode:** Improves voice clarity in movies, TV shows, and games.

2. Setup Guide

2.1 Unboxing and Package Contents

Carefully remove the TV and all components from the packaging. Ensure all items listed below are present before proceeding with the setup.

- TCL 55-Inch Q65 QLED 4K UHD Smart TV
- Power Cable
- Quick Start Guide
- TV Remote
- 2x AAA TV Remote Batteries
- 2x TV Stands



Figure 2.1: TV dimensions and a visual representation of included accessories.

2.2 Stand Installation or Wall Mounting

Choose between installing the included TV stands or mounting the TV on a wall. For wall mounting, refer to the wall mount kit's instructions (sold separately) and ensure proper ventilation.

1. **For Stand Installation:** Attach the two TV stands to the bottom of the TV using the provided screws. Ensure they are securely fastened.
2. **For Wall Mounting:** Follow the instructions provided with your VESA-compatible wall mount. It is recommended to have this done by a professional.

2.3 Initial Power On and Google TV Setup

Once the TV is securely placed or mounted, connect the power cable to the TV and then to a power outlet. Press the power button on the TV or remote control to turn it on.

1. Insert the AAA batteries into the remote control.

2. Follow the on-screen instructions to complete the initial Google TV setup, including language selection, network connection (Wi-Fi or Ethernet), and Google account sign-in.
3. The TV will guide you through connecting to your home network and setting up smart features.

2.4 Connecting External Devices

The TV offers various connectivity options for external devices.

- **HDMI Ports:** Connect Blu-ray players, gaming consoles, soundbars, or cable/satellite boxes.
- **USB Ports:** For connecting USB drives to view media files.
- **Ethernet Port:** For a wired internet connection.
- **Bluetooth:** For wireless connection to compatible audio devices or accessories.
- **Wi-Fi:** For wireless internet access.

3. Operating Your TV

3.1 Remote Control Functions

The included voice remote allows for easy navigation and control of your TV and Google TV features. Familiarize yourself with the buttons for power, volume, channel, input selection, Google Assistant, and app shortcuts.

3.2 Google TV Interface

Google TV organizes your favorite content from across your apps and subscriptions into one central location. Use the remote's navigation buttons to browse recommendations, access your apps, and manage settings.

3.3 Picture Settings and Quality

Your TCL Q6 TV features advanced picture technologies for an optimized viewing experience.

- **QLED PRO:** Quantum Dot technology delivers a wider color gamut and enhanced color accuracy.
- **High Brightness+ LED Backlight:** Provides increased peak brightness for vivid HDR content and better visibility in bright rooms.
- **TCL AIPQ Processor:** Intelligently processes content to optimize clarity, contrast, and color in real-time.
- **HDR PRO+ (Dolby Vision, HDR10+, HDR10, HLG):** Automatically adjusts picture settings for compatible HDR content to display a wider range of brightness and color.



Figure 3.1: QLED PRO technology enhances color vibrancy compared to conventional TVs.



Figure 3.2: High Brightness Plus LED Backlight provides a brighter picture.



Figure 3.3: The TCL AIPQ Processor intelligently optimizes picture quality.

3.4 Audio Settings and Sound Quality

The TV provides a comprehensive audio experience.

- **Dolby Atmos Audio:** Delivers multi-dimensional sound that moves around you.
- **DTS Virtual:X:** Creates an immersive 3D sound experience from the TV's built-in speakers.
- **Enhanced Dialogue Mode:** Improves the clarity and intelligibility of spoken words.



Figure 3.4: Dolby Atmos provides cinematic and immersive sound.

3.5 Gaming Features

For gamers, the Q6 TV offers features to enhance your experience.

- **Game Accelerator 120:** Provides up to 120 VRR (Variable Refresh Rate) for fast, fluid gameplay.
- **Auto Game Mode (ALLM):** Automatically switches to a low-latency mode when a gaming console is detected, minimizing input lag.
- **Motion Rate 240 with MEMC:** Reduces motion blur and judder for clearer fast-action scenes.

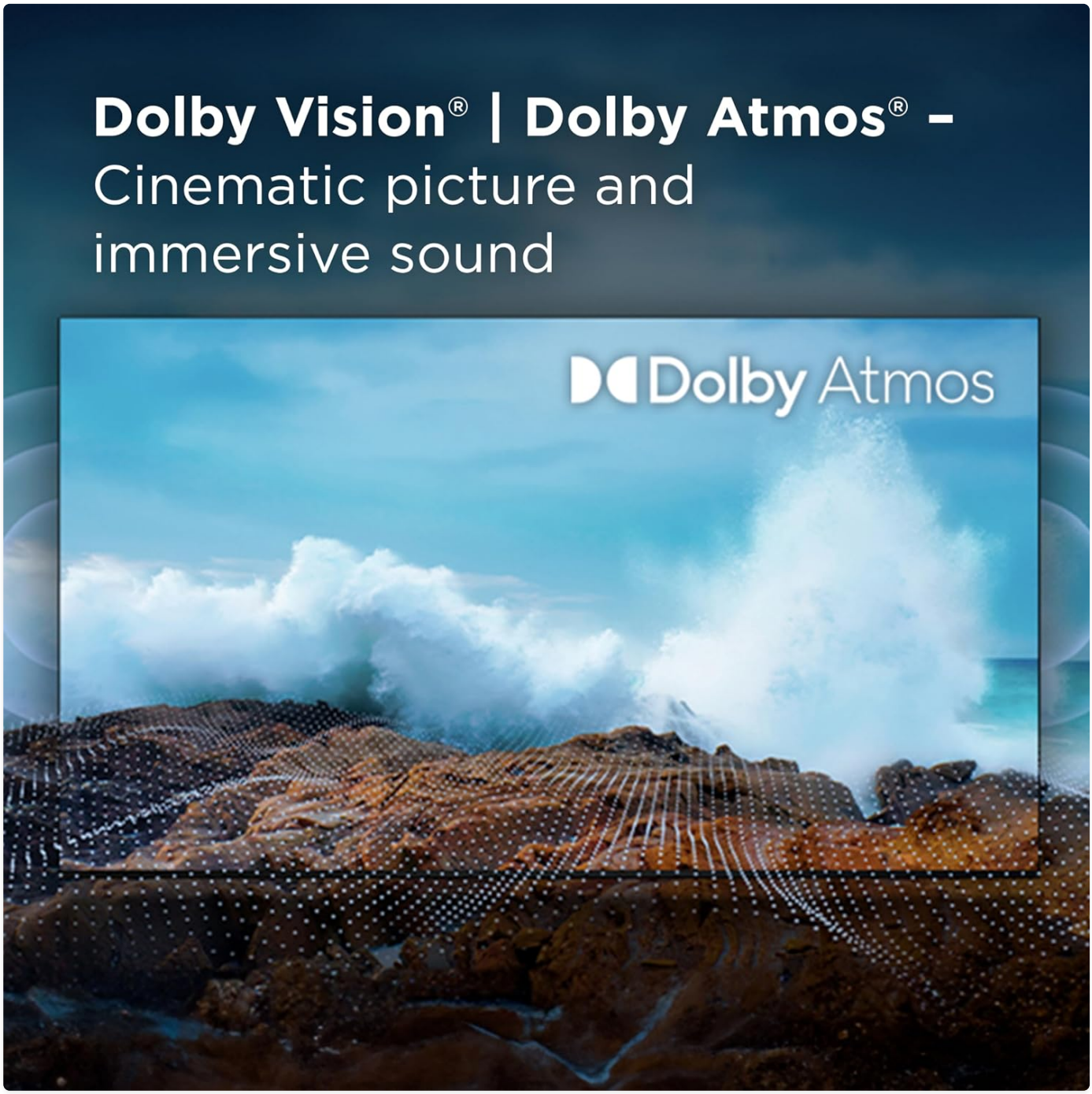


Figure 3.5: Game Accelerator 120 VRR ensures smooth and responsive gaming.



Figure 3.6: Motion Rate 240 with MEMC provides clear action in movies, sports, and gaming.

4. Maintenance

4.1 Cleaning Your TV

To maintain the picture quality and longevity of your TV, regular cleaning is recommended.

- **Screen:** Gently wipe the screen with a soft, dry microfiber cloth. For stubborn smudges, lightly dampen the cloth with water or a screen-specific cleaning solution (never spray directly onto the screen).
- **Frame and Stand:** Use a soft, dry cloth to wipe dust from the TV frame and stand.
- **Do Not Use:** Abrasive cleaners, waxes, or solvents as they can damage the TV's finish.

4.2 Software Updates

Your Google TV will periodically check for and install software updates to improve performance, add new features, and enhance security. Ensure your TV is connected to the internet for automatic updates.

- You can manually check for updates in the TV's settings menu: **Settings > System > About > System software update**.
- Do not unplug the TV during a software update.

5. Troubleshooting

This section addresses common issues you might encounter with your TCL Q6 TV. If the problem persists, please contact customer support.

Problem	Possible Cause	Solution
No power / TV won't turn on	Power cable disconnected; no power from outlet; remote batteries dead.	Check power cable connection; test outlet with another device; replace remote batteries.
No picture / Poor picture quality	Incorrect input selected; external device issue; picture settings.	Verify correct HDMI input; check external device power/cables; adjust picture settings (brightness, contrast, etc.).
No sound / Poor sound quality	Volume too low/muted; external audio system issue; audio settings.	Increase volume; check mute status; ensure external audio system is on/connected correctly; adjust audio settings (Dolby Atmos, DTS Virtual:X).
Remote control not working	Dead batteries; obstruction; remote not paired.	Replace batteries; remove obstructions; re-pair remote if necessary (refer to Google TV remote pairing instructions).
Cannot connect to Wi-Fi / Network issues	Incorrect password; router issue; TV too far from router.	Re-enter Wi-Fi password; restart router/modem; move TV closer to router or use Ethernet cable.
Apps not loading / Slow performance	Internet connection issue; insufficient memory; app glitch.	Check internet speed; close background apps; restart TV; clear app cache/data (in TV settings).

6. Specifications

Detailed technical specifications for the TCL 55-Inch Q65 QLED 4K UHD Smart TV (Model 55Q651G).

Feature	Detail
Model Number	55Q651G
Screen Size	55 Inches (140 cm diagonal)
Display Technology	QLED
Resolution	4K UHD (3840 x 2160)

Feature	Detail
Refresh Rate	60 Hz (Motion Rate 240 with MEMC)
HDR Support	HDR PRO+, Dolby Vision, HDR10+, HDR10, HLG
Processor	TCL AIPQ Processor with Deep Learning AI
Operating System	Google TV
Audio Technology	Dolby Atmos, DTS Virtual:X, Enhanced Dialogue Mode
Connectivity	Wi-Fi, Ethernet, Bluetooth, HDMI, USB
Special Features	Bezel-Less Design, Built-In Speaker, Chromecast, Game Mode, Wide Color Enhancer, Voice Remote
Product Dimensions (with stand)	48.19" W x 30.0" H x 10.8" D
Product Dimensions (without stand)	48.19" W x 27.87" H x 2.74" D
Item Weight	23.2 Pounds
Color	Black

7. Warranty and Customer Support

7.1 Warranty Information

TCL provides a limited warranty for this product. Please refer to the warranty card included in your product packaging or visit the official TCL website for detailed warranty terms and conditions specific to your region. Keep your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact TCL Customer Support. You can typically find contact information (phone numbers, email, or online chat) on the official TCL website or in the Quick Start Guide provided with your TV.
When contacting support, please have your TV's model number (55Q651G) and serial number ready. The serial number is usually located on a sticker on the back of the TV.

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