

TCL 65QM8K

TCL 65-Inch Class QM8K Series QD-Mini LED 4K UHD Google Smart TV User Manual

Model: 65QM8K

1. PRODUCT OVERVIEW

The TCL 65-Inch Class QM8K Series QD-Mini LED 4K UHD Google Smart TV (Model: 65QM8K) represents the next generation of television technology, designed to deliver an unparalleled viewing experience. This smart TV combines advanced QD-Mini LED backlighting with QLED technology, a 144Hz native refresh rate, and a 288Hz Variable Refresh Rate (VRR) for exceptional picture quality and smooth motion. Its no-bezel design and AI processing further enhance visual performance.

Key features include the TCL Halo Control System for "Halo-Free" images, up to LD3800 Precise Dimming Series for deep blacks, and HDR5000 Brightness for dazzling highlights. The integrated Google TV platform provides seamless access to content, while audio by Bang & Olufsen, Dolby Atmos, and DTS Virtual:X ensure immersive sound.



Figure 1.1: Front view of the TCL 65-Inch QM8K Series TV, showcasing its vibrant display and sleek design.

2. WHAT'S IN THE BOX

Verify that all components are present before proceeding with setup.

- TCL TV with Google TV
- TV Stands (2)
- Power Cable
- TV Remote + Batteries (2 AAA batteries included)
- Quick Start Guide
- User Manual (this document)

TCL

65" Class (64.5" diag.)

QM8K Series | 65QM8K



Dimensions:

TV with Stand:
56.46" x 33.86" x 14.49"

TV without Stand:
56.46" x 32.44" x 1.97"

What's in the Box:

- TCL TV with Google TV
- TV Stands
- Power Cable
- TV Remote + Batteries
- Quick Start Guide

*Features and specifications subject to change.
*Actual remote has pre-set channel buttons.
Channels can vary by country.

Figure 2.1: Diagram showing TV dimensions with and without stand, and a list of included accessories.

3. SETUP INSTRUCTIONS

3.1 Attaching the TV Stand

1. Carefully place the TV screen-down on a soft, flat surface to prevent damage.
2. Identify the left and right stand components.
3. Align each stand with the corresponding screw holes on the bottom of the TV.
4. Secure the stands using the provided screws. Ensure they are firmly attached.



Figure 3.1: Detailed view of the TV stand assembly point.

3.2 Connecting Power and Devices

1. Connect the power cable to the TV's power input and then to a wall outlet.
2. For external devices (Blu-ray players, game consoles, soundbars), use the appropriate HDMI, USB, or other input ports located on the back of the TV. Refer to Section 7 for port details.
3. For internet connectivity, connect an Ethernet cable to the LAN port or prepare for Wi-Fi setup during initial power-on.



Figure 3.2: Rear view of the TV displaying the connectivity ports for various devices.

4. OPERATING INSTRUCTIONS

4.1 Initial Power-On and Google TV Setup

Upon first power-on, the TV will guide you through the Google TV setup process. This includes connecting to Wi-Fi, logging into your Google account, and installing essential apps.



Figure 4.1: The Google TV home screen, showing various streaming app icons and content recommendations.

4.2 Remote Control Functions

The included backlit premium voice remote allows for intuitive navigation and control.

- **Power Button:** Turns the TV on or off.
- **Navigation Pad:** Use the directional buttons to move through menus and the OK button to select.
- **Voice Assistant Button:** Activates Google Assistant for voice commands.
- **Input Button:** Switches between connected input sources (HDMI, AV, etc.).
- **Volume Up/Down:** Adjusts the audio level.
- **Channel Up/Down:** Changes TV channels.
- **Home Button:** Returns to the Google TV home screen.
- **Back Button:** Returns to the previous screen or menu.

4.3 Input Selection

To switch between different video sources (e.g., a Blu-ray player connected to HDMI 1, or a game console connected to HDMI 2), press the "Input" button on your remote control and select the desired source from the on-screen menu.

5. PICTURE QUALITY FEATURES

The TCL QM8K Series TV incorporates several advanced technologies to deliver superior picture performance.

5.1 QD-Mini LED Technology

This premium Mini LED TV features a new TCL Halo Control System, ensuring a stunning viewing experience with precise light control and high contrast.

QD-Mini LED – High Zone Dimming for Stunning Contrast.

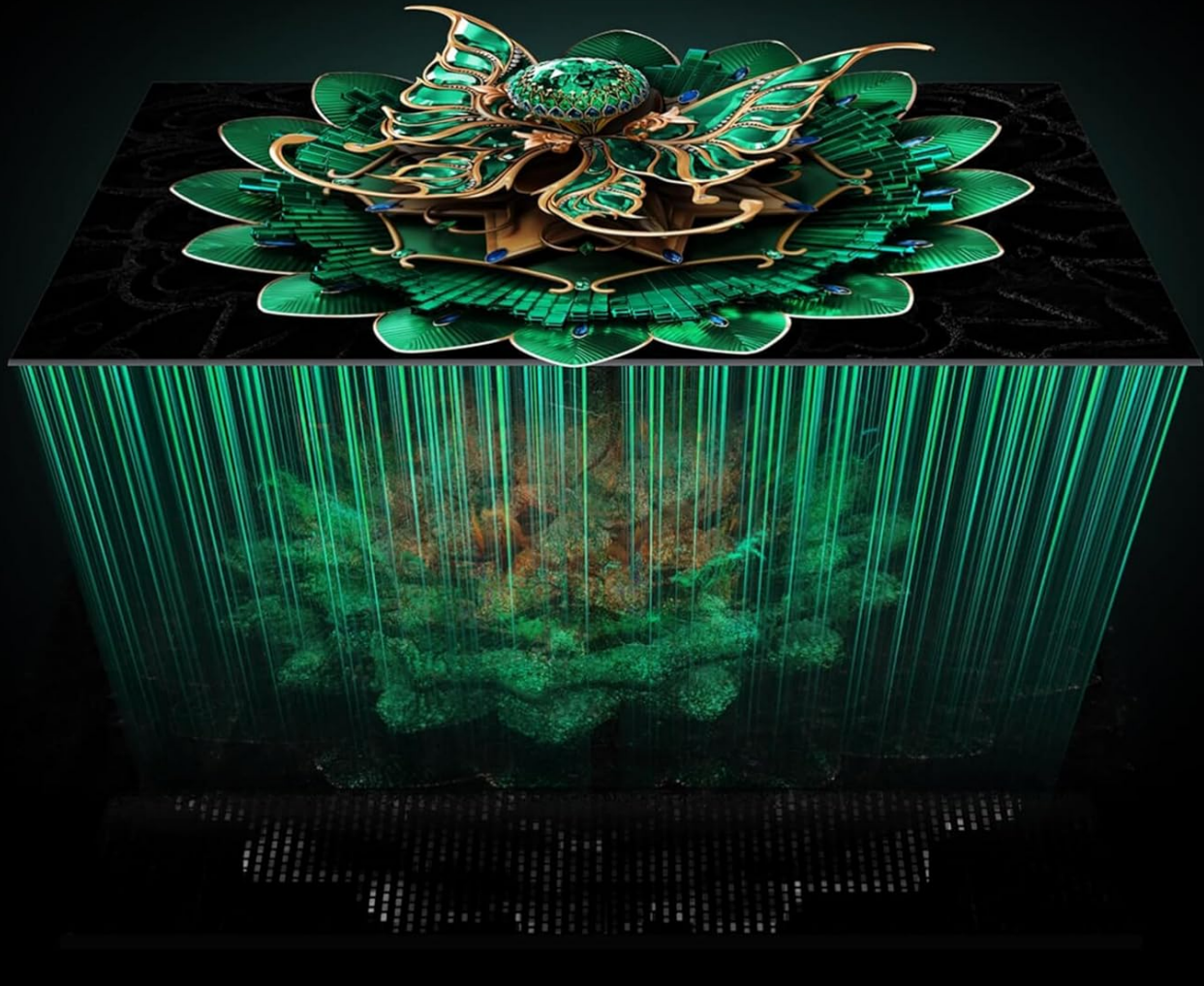


Figure 5.1: Visual representation of QD-Mini LED technology with high zone dimming for enhanced contrast.

5.2 TCL Halo Control System

An advanced technology suite including a Super High Energy LED Microchip, Condensed Micro Lens, Micro-OD Reduced Optical Distance, High Contrast HVA Panel, Enhanced QLED, Zero Delay Transient Response, Bi-direction 23-bit Backlight Controller, and Dynamic Light Algorithm for stunning "Halo-Free" images.

TCL Halo Control System – Creating an all-new level of picture accuracy.

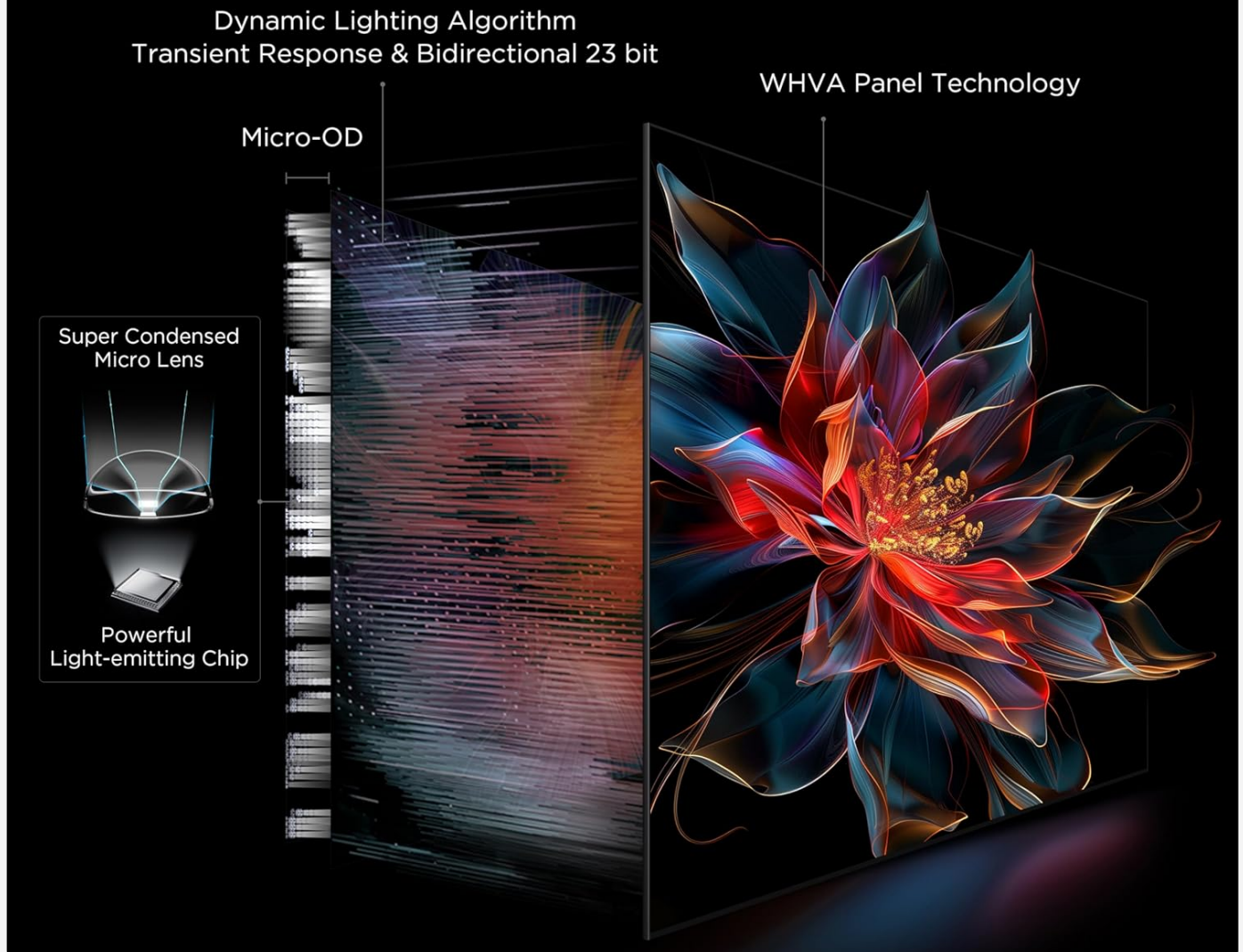


Figure 5.2: Illustration of the TCL Halo Control System, detailing its components for precise picture accuracy.

5.3 Precise Dimming Series (LD3800) & HDR5000 Brightness

Experience pure black levels and a great picture in virtually any room lighting environment with up to LD3800 Precise Dimming Series and up to HDR5000 Brightness. This combination provides high contrast with dazzling specular highlights.

Up to LD3800 Precise Dimming Series – Adaptive local dimming for deep blacks and great contrast.

Conventional LD Zones



Precise Dimming Series



Figure 5.3: Visual comparison demonstrating the effectiveness of LD3800 Precise Dimming for deep blacks.

HDR5000 Brightness – High contrast with dazzling specular highlights.



Figure 5.4: An example of HDR5000 Brightness, showcasing vibrant highlights and contrast.

5.4 CrystGlow WHVA Panel & Enhanced QLED

The anti-reflective edge-to-edge ZeroBorder panel delivers vibrant colors and crisp detail from every angle. Enhanced QLED technology provides rich, vibrant colors, bringing images to life.

CrystGlow WHVA Panel – The
Anti-reflective ZeroBorder panel
delivers vibrant colors from every angle.



Figure 5.5: The CrystGlow WHVA Panel's ability to display vibrant colors and reduce reflections.

Enhanced QLED – Rich, vibrant colors bringing images to life.



Figure 5.6: Enhanced QLED technology rendering rich and vibrant colors.

5.5 4K UltraHD Resolution & 144Hz Native Refresh Rate

Experience incredible detail with 4K UltraHD resolution, offering four times the resolution of 1080p Full HDTVs. The 144Hz native panel refresh rate with Motion Rate 480 ensures ultra-smooth video playback and best-in-class motion clarity.

4K UltraHD Resolution – Experience incredible detail with 4X the resolution of 1080p Full HDTVs.



Figure 5.7: The TV showcasing the clarity of 4K UltraHD resolution.

144Hz Native Refresh Rate – Ultra smooth experience.

Without 144Hz
Native Refresh Rate

With 144Hz Native
Refresh Rate



Figure 5.8: Demonstration of the smooth motion provided by the 144Hz Native Refresh Rate.

5.6 Game Accelerator 288 & AIPQ PRO Processor

Win the game with up to blistering fast 288 VRR, creating lag-free gaming. The TCL AIPQ PRO Processor, an advanced processor optimizing each scene, provides an unrivaled cinematic experience by dynamically controlling picture clarity, contrast, color, motion, upscaling, and backlighting.

6. AUDIO FEATURES

The TCL QM8K Series TV delivers a rich and immersive audio experience.

6.1 Audio by Bang & Olufsen

The TV features audio by Bang & Olufsen, providing elevated sound experiences directly from the integrated speakers.

6.2 Dolby Atmos & DTS Virtual:X

Experience advanced spatial audio processing with Dolby Atmos, found in movies, TV shows, and video games. DTS Virtual:X offers advanced audio post-processing for an immersive 3D sound experience from your TV speakers.

7. CONNECTIVITY

The TCL QM8K TV offers a variety of ports for connecting external devices.

Port Type	Description	Typical Use
HDMI (eARC)	High-Definition Multimedia Interface with Audio Return Channel. Ports 3 & 4 are 60MHz.	Connect Blu-ray players, game consoles, soundbars (eARC for audio passthrough).
USB	Universal Serial Bus ports.	Connect USB drives for media playback, external keyboards, or other USB accessories.
Ethernet (LAN)	Wired network connection.	Connect to your home network for stable internet access.
RF (Antenna/Cable)	Coaxial input for antenna or cable TV.	Connect an antenna for over-the-air broadcasts or a cable TV feed.
Optical Digital Audio Out	Digital audio output.	Connect to a soundbar or AV receiver for digital audio.

8. MAINTENANCE

8.1 Cleaning the Screen

To clean the screen, gently wipe it with a soft, lint-free cloth. For stubborn marks, slightly dampen the cloth with water or a screen-specific cleaning solution. Avoid using harsh chemicals, abrasive materials, or spraying liquid directly onto the screen.

8.2 General Care

- Keep the TV away from direct sunlight and heat sources.
- Ensure adequate ventilation around the TV to prevent overheating.
- Unplug the TV from the power outlet during lightning storms or when it will be left unattended for long periods.

9. TROUBLESHOOTING

This section addresses common issues you might encounter with your TCL QM8K TV.

Problem	Possible Cause	Solution
No Power	Power cable not connected; outlet not working.	Ensure power cable is securely plugged into TV and a working outlet. Try a different outlet.
No Picture/Sound	Incorrect input source selected; loose HDMI cable.	Press the "Input" button on the remote to select the correct source. Check all cable connections.

Problem	Possible Cause	Solution
Remote Not Working	Dead batteries; obstruction between remote and TV.	Replace batteries (2 AAA). Ensure no objects block the remote's signal to the TV.
Poor Wi-Fi Connection	Router too far; interference.	Move router closer to TV or use a wired Ethernet connection. Reduce interference from other devices.
"Shadows constantly moving across screen" (as per review)	Potential software/firmware issue or specific content.	Check for available firmware updates in the TV settings. If the issue persists, contact TCL customer support.
TV stuck on boot screen (as per review)	Software/OS glitch.	Perform a hard reset by unplugging the TV for 60 seconds and plugging it back in. If the issue persists, contact TCL customer support for advanced troubleshooting or service.

10. SPECIFICATIONS

Feature	Detail
Brand	TCL
Model Number	65QM8K
Screen Size	65 Inches (64.5" diagonal)
Display Technology	QD-Mini LED, QLED, 4K UHD
Resolution	3840 x 2160 (4K UHD)
Refresh Rate	144 Hz Native, 288 Hz VRR (Game Accelerator 288)
HDR Support	HDR5000 Brightness, Dolby Vision IQ, HDR10+, HDR10, HLG
Processor	TCL AIPQ PRO Processor with Deep Learning AI
Operating System	Google TV
Audio Output	40 Watts, Audio by Bang & Olufsen, Dolby Atmos, DTS Virtual:X
Connectivity	Wi-Fi, Ethernet, HDMI (eARC), USB, RF
Dimensions (with stand)	56.46"W x 33.86"H x 14.49"D
Dimensions (without stand)	56.46"W x 32.44"H x 1.97"D
Item Weight	50.93 Pounds
Included Components	Power Cable, Remote Control, Stand, User Manual

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official TCL support website. You can also contact TCL customer service directly for assistance with product registration, troubleshooting, and service requests.

TCL Customer Support: www.tcl.com/us/en/support

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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