TCL 85QM8BX1

TCL 85QM8B Mini LED QLED 4K TV User Manual

Model: 85QM8BX1

Product Overview

The TCL QM8B series combines 5th generation Mini LED, a 144Hz QLED panel, and 4K HDR Premium 1300 for high-quality images with sharp contrasts and vibrant colors. This MiniLED TV is designed to enhance your viewing experience for video games, movies, and HDR sports.

It features the advanced Google TV system with integrated Google Assistant, allowing for hands-free voice control. The ONKYO speakers provide immersive Dolby Atmos and DTS:X audio. The QM8B series also supports Apple AirPlay 2, HomeKit, and the Apple TV app, ensuring seamless integration with both Android and Apple devices. Its premium bezel-less design with a central stand offers an elegant and smart aesthetic.



This image displays the TCL 85QM8B TV, highlighting its 85-inch Mini LED QLED display with 4K HDR 1300 Premium. The screen shows a vibrant image of the Italian national football team, emphasizing the TV's visual capabilities. TCL and Google TV logos are prominently featured.

Key Features

- **4K HDR PREMIUM 1500:** Combined with Quantum Dot technology for a high-level High Dynamic Range (HDR) experience, offering precise colors and sharp details.
- **Native 144 Hz Screen:** Enjoy dynamic action scenes in movies or sports with super realistic fluidity and sharper details.
- **GAME MASTER PRO 2.0:** Compatible with HDMI 2.1, ALLM, 144Hz VRR, Game Bar, FreeSync Premium Pro, and Game Accelerator 240Hz for lower latency and optimal gaming image settings.
- **ONKYO 2.0 Audio System:** Provides a realistic Dolby ATMOS and DTS:X sound experience.
- **Google TV with Hands-Free Voice Control:** Simple and unlimited entertainment with integrated Google Assistant and Alexa compatibility.
- **Apple Device Support:** Supports Apple AirPlay 2, HomeKit, and the Apple TV app for easy connection of your Apple devices.



This image presents a collage of the TCL QM8B TV's advanced features: Mini LED technology, 500+ Full Array Local Dimming zones, AMD FreeSync Premium Pro, 144Hz VRR, HDR 1500 nits, Multi HDR Format (Dolby Vision, Dolby Vision IQ, HDR10+), HDMI 2.1 with ALLM & eARC, Anti-Reflection screen, and IMAX Enhanced certification.

Setup Guide

1. Unboxing and Placement

Carefully remove the TV from its packaging. It is recommended to have at least two people for handling the 85-inch model due to its size and weight. Place the TV on a stable, flat surface or mount it securely to a wall using a compatible VESA mount (not included).



This diagram provides precise measurements for the 85-inch TCL TV, including its width (1890mm), height (1089mm without stand, 1156mm with stand), and thickness (73mm). The stand dimensions are also shown (400mm x 385mm), alongside a visual representation of the remote control.

2. Connecting Peripherals

Connect your external devices such as gaming consoles, Blu-ray players, soundbars, or cable boxes to the appropriate ports on the TV. Refer to the "Connectivity" section for a detailed port layout.

3. Power On and Initial Setup

Plug the power cord into the TV and then into a wall outlet. Press the power button on the remote control or the TV itself. Follow the on-screen instructions to complete the initial setup, including network connection, Google account login, and channel scanning.

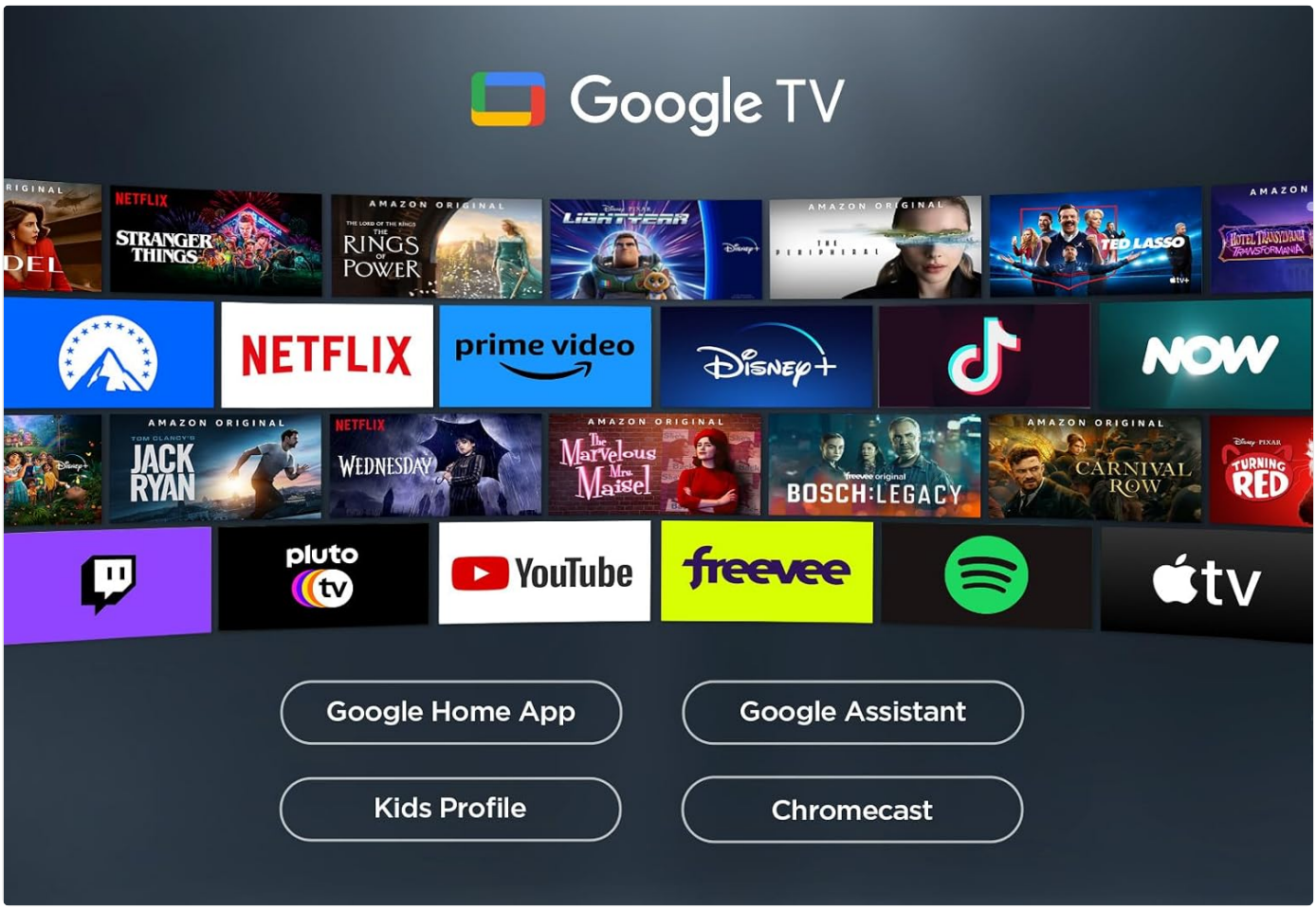
Operating Instructions

Using the Remote Control

The included remote control allows you to navigate the Google TV interface, adjust settings, and control playback. Familiarize yourself with the button layout for power, volume, channel, input selection, and dedicated app buttons.

Google TV Interface

Google TV organizes your favorite content from various streaming services into one personalized home screen. Use the remote's navigation buttons to browse recommendations, access apps, and manage your profile.



A screenshot of the Google TV interface, showing a wide array of popular streaming applications like Netflix, Amazon Prime Video, Disney+, YouTube, and more, along with options for Google Home App, Google Assistant, Kids Profile, and Chromecast.

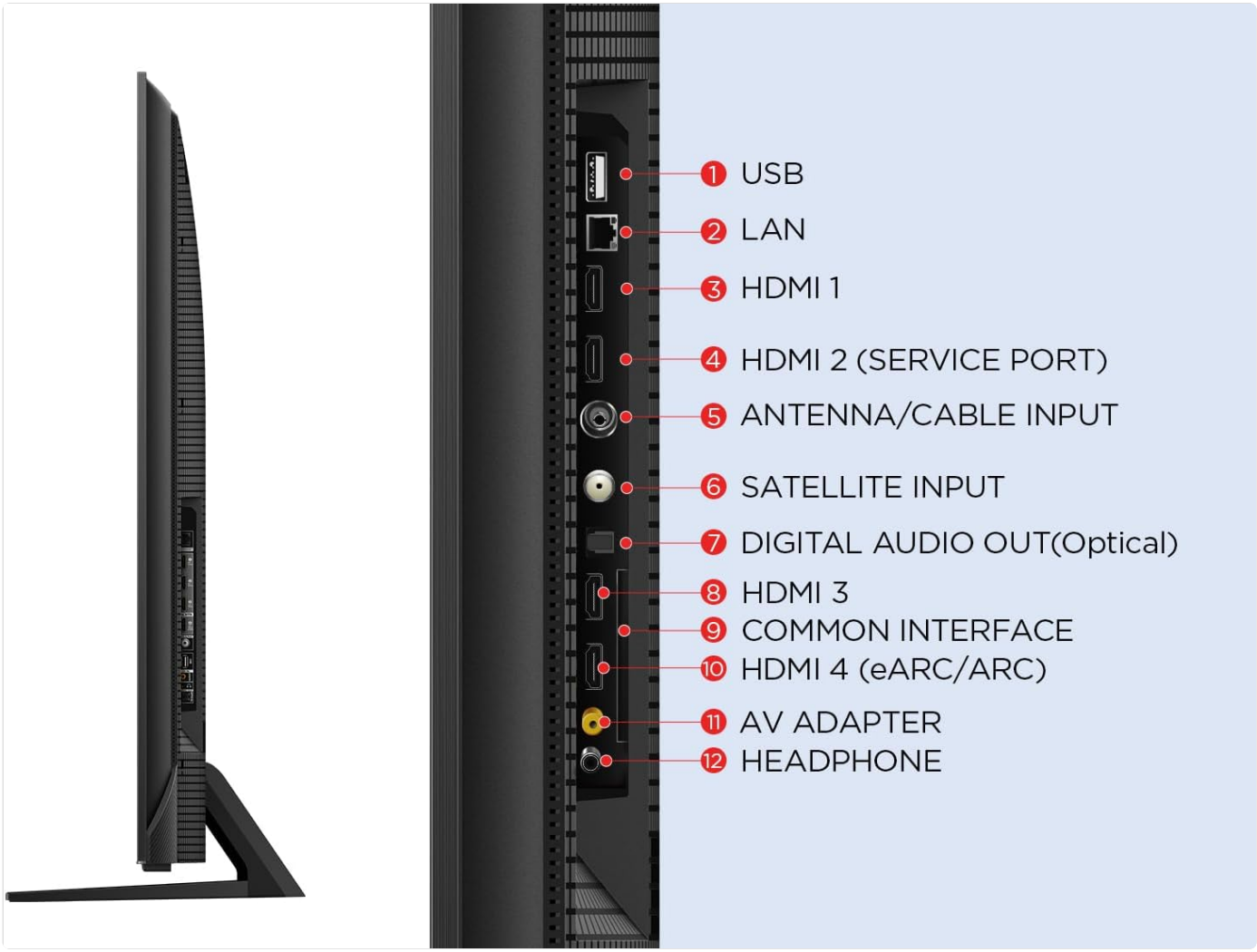
Hands-Free Voice Control

The TCL QM8B TV supports hands-free voice control via Google Assistant. Simply say "Hey Google" followed by your command to search for content, control smart home devices, or adjust TV settings without needing the remote.

Connectivity

The TCL QM8B TV offers a comprehensive range of connectivity options to integrate with your home entertainment system.

- **HDMI Ports:** Multiple HDMI ports, including HDMI 2.1 with ALLM and eARC/ARC support for high-bandwidth devices and enhanced audio return.
- **USB Port:** For connecting USB storage devices to play media or for service purposes.
- **LAN (Ethernet):** For a stable wired internet connection.
- **Wi-Fi & Bluetooth:** Built-in wireless connectivity for internet access and connecting Bluetooth peripherals like headphones or game controllers.
- **Antenna/Cable Input & Satellite Input:** For receiving broadcast signals.
- **Digital Audio Out (Optical):** For connecting to external audio systems.
- **Headphone Jack:** For private listening.



A detailed side view of the TCL TV, clearly labeling its connectivity ports: USB, LAN, HDMI 1, HDMI 2 (Service Port), Antenna/Cable Input, Satellite Input, Digital Audio Out (Optical), HDMI 3, Common Interface, HDMI 4 (eARC/ARC), AV Adapter, and Headphone jack.

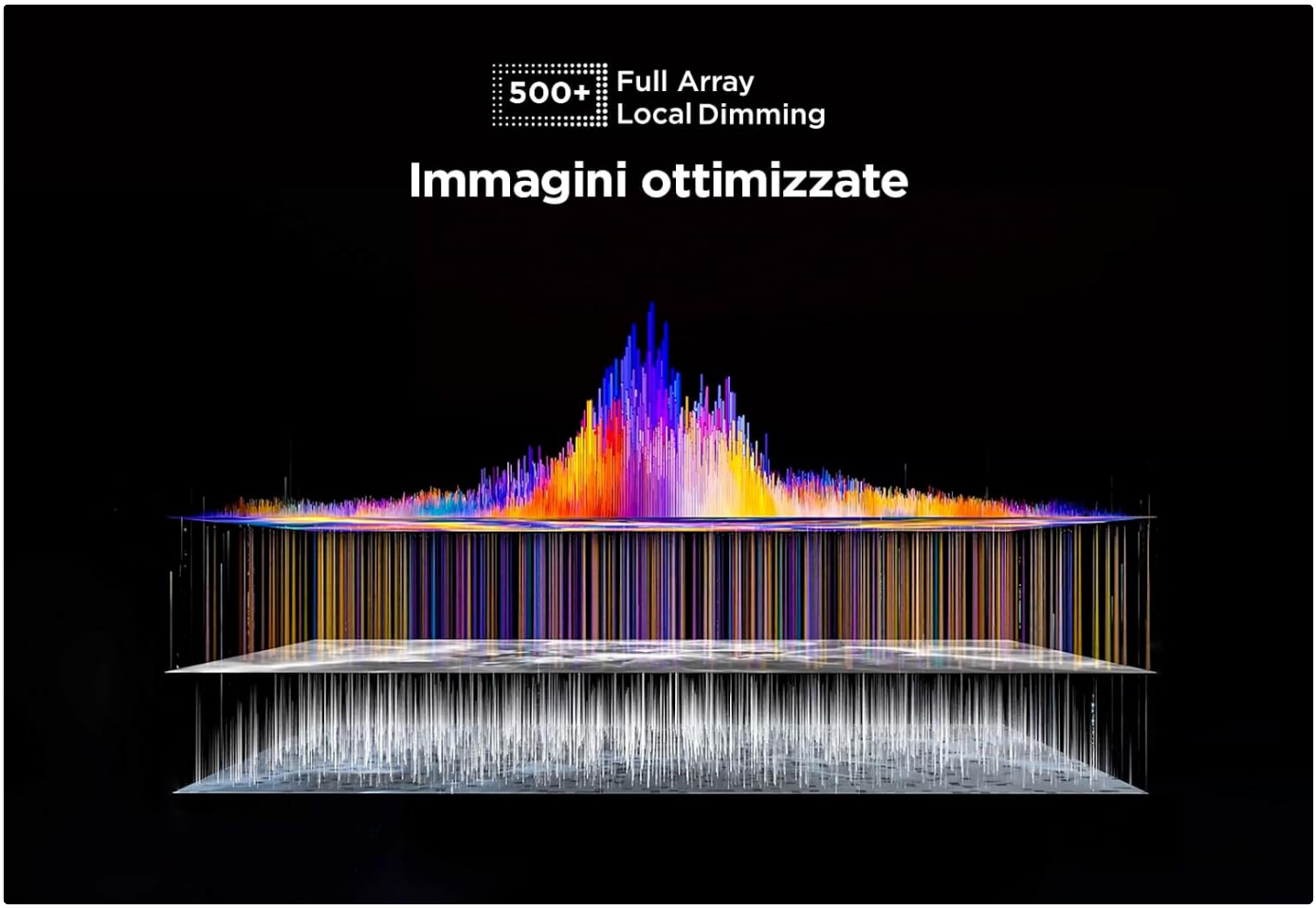
Audio & Visual Enhancements

Mini LED and QLED Technology

The QM8B series utilizes **Mini LED** backlighting with **Quantum Dot (QLED)** technology. Mini LEDs are significantly smaller than traditional LEDs, allowing for thousands of local dimming zones. This precise control of light results in incredibly deep blacks, brilliant highlights, and superior contrast. Quantum Dot technology enhances color volume and accuracy, producing over a billion shades of vibrant, lifelike colors.



A detailed illustration demonstrating the QD-Mini LED technology, showing numerous tiny LED light sources creating vibrant and precise illumination, with the Italian text 'Illumina le tue emozioni' (Illuminate your emotions).



This graphic illustrates the concept of Full Array Local Dimming with 500+ zones, showing how light is precisely controlled across the

screen to optimize images, resulting in deeper blacks and brighter highlights. The Italian text reads 'Immagini ottimizzate' (Optimized images).

HDR Premium 1500 Nits

With a peak brightness of 1500 nits, the TV delivers stunning High Dynamic Range (HDR) performance. This allows for a wider range of brightness levels, revealing more detail in both the darkest shadows and brightest highlights, providing a more immersive and realistic picture.



An image showcasing the impressive brightness of HDR 1500 nits, featuring a vivid landscape with a sunset over water and rocks, highlighting the TV's ability to produce brilliant and detailed visuals. The Italian text reads 'Immagini brillanti' (Brilliant images).

ONKYO Audio System with Dolby Atmos & DTS:X

Experience rich, clear, and powerful sound with the integrated ONKYO 2.0 audio system. Support for Dolby Atmos and DTS:X creates a three-dimensional soundscape, making you feel like you're in the middle of the action, whether watching movies, sports, or playing games.

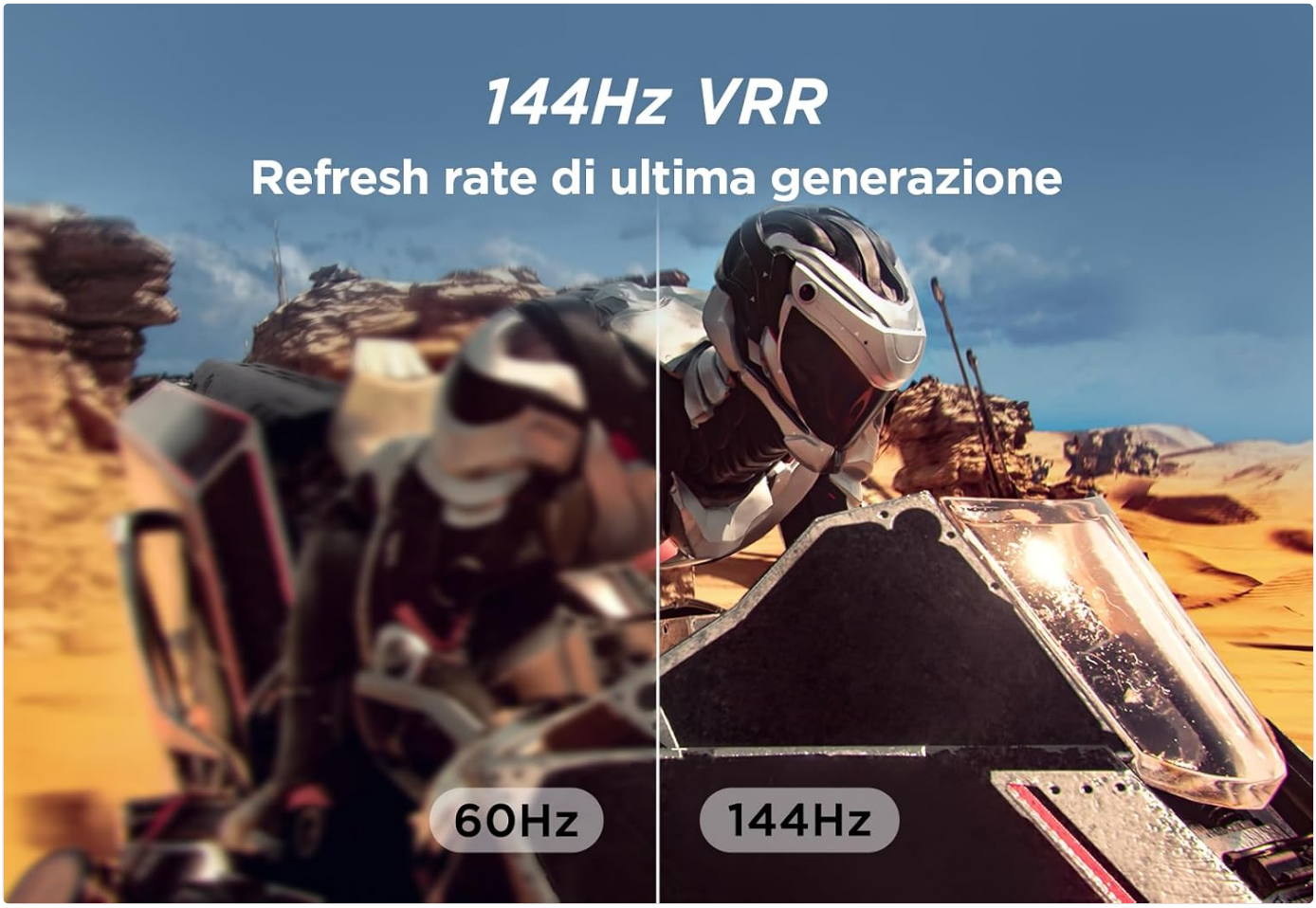


A visual representation of immersive audio, with sound waves emanating from the TV screen, highlighting the ONKYO 2.1 sound system and Dolby Atmos technology for a cinematic audio experience. The Italian text reads 'Esperienza cinematografica' (Cinematic experience).

Gaming Features

The TCL QM8B TV is equipped with advanced features to provide an optimal gaming experience.

- **144Hz VRR (Variable Refresh Rate):** Ensures smooth, tear-free gameplay by synchronizing the TV's refresh rate with the game's frame rate.
- **AMD FreeSync Premium Pro:** Offers fluid, artifact-free performance at virtually any framerate, with support for HDR content.
- **Game Master Pro 2.0:** Includes features like ALLM (Auto Low Latency Mode) for automatic low-latency mode when gaming, and Game Accelerator 240Hz for even smoother motion in compatible games.



A side-by-side comparison illustrating the difference between 60Hz and 144Hz refresh rates, demonstrating the superior fluidity and sharpness of motion with 144Hz VRR, especially noticeable in fast-paced scenes. The Italian text reads 'Refresh rate di ultima generazione' (Latest generation refresh rate).



A dynamic image depicting a gaming scene with a character and a robot, emphasizing the fluid gaming experience provided by AMD FreeSync Premium Pro technology. The Italian text reads 'Esperienza di gioco fluida' (Fluid gaming experience).

Maintenance and Care

Cleaning the Screen

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

General Care

- Keep the TV away from direct sunlight and heat sources.
- Ensure proper ventilation around the TV to prevent overheating.
- Unplug the TV during lightning storms or when it will be unused for extended periods.

Software Updates

The TV may receive periodic software updates to improve performance and add new features. Ensure your TV is connected to the internet to receive these updates automatically or check for them manually through the settings menu.

Troubleshooting

Problem	Possible Solution
No Power	Check if the power cord is securely plugged into the TV and the wall outlet. Test the outlet with another device.
No Picture/Sound	Verify the correct input source is selected. Check all cable connections (HDMI, antenna). Restart connected devices.
Poor Picture Quality	Adjust picture settings (brightness, contrast, sharpness). Ensure the source content is high quality. Check antenna signal strength.
Remote Control Not Working	Replace batteries (2 AAA required). Ensure no obstructions between remote and TV. Re-pair the remote if it's a Bluetooth model.
No Internet Connection	Check Wi-Fi password. Restart your router. Try a wired Ethernet connection if possible.

For more complex issues, consult the full user manual (if provided separately) or contact TCL customer support.

Technical Specifications

Brand	TCL
Model Number	85QM8BX1
Screen Size	85 inches
Display Technology	QLED (Mini LED Backlight)
Resolution	4K (3840 x 2160)

Refresh Rate	144 Hz
Operating System	Google TV
Connectivity	Bluetooth, Wi-Fi, USB, Ethernet, HDMI (HDMI 2.1 compatible)
Color	Brushed Metal
Aspect Ratio	16:9
Product Dimensions (D x W x H)	38.5 cm x 189 cm x 115.6 cm
Included Components	Remote control, user manual (language may vary)
Batteries Required	2 AAA Alkaline batteries
Date First Available	January 19, 2024

Warranty and Support

For information regarding your product's warranty, please refer to the warranty card included with your purchase or visit the official TCL support website. Keep your proof of purchase for warranty claims.
If you require technical assistance or have questions not covered in this manual, please contact TCL customer support. Contact details can typically be found on the TCL website or in your product documentation.

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