

## TCL 40L5AG

# TCL 40L5AG 40-inch Google TV Smart Television User Manual

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your TCL 40L5AG 40-inch Google TV Smart Television. Learn about its features including Algo Engine, Full HD display, Dolby Audio, Chromecast, and integrated streaming services.

## 1. INTRODUCTION

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Thank you for purchasing the TCL 40L5AG 40-inch Google TV Smart Television. This television combines a Full HD display with advanced image processing, smart features powered by Google TV, and immersive audio to provide a comprehensive entertainment experience. Please read this manual thoroughly before using the product to ensure proper operation and to maximize your viewing pleasure.



Figure 1: TCL 40L5AG 40-inch Google TV Smart Television. This image shows the front view of the television with its slim bezels and stand.

## 2. SETUP

### 2.1 Unpacking and Assembly

Carefully remove the television from its packaging. Ensure all components are present:

- TCL 40L5AG Television
- Remote Control
- Batteries for Remote Control
- TV Stand (if applicable)
- Power Cord
- User Manual (this document)

If using the TV stand, attach it securely according to the instructions provided in the quick start guide. For wall mounting, refer to a compatible VESA wall mount kit (sold separately) and follow its installation instructions.

## 2.2 Connecting Cables

Connect the necessary cables to the appropriate ports on the rear of the television.



Figure 2: Rear view of the TCL 40L5AG showing various connection terminals. This diagram illustrates the locations of the Optical Digital Audio Output, LAN, Headphone Output, Video Input, Antenna Input, HDMI Inputs (1-2), miniB-CAS Card Slot, and USB Terminal.

1. **Power:** Connect the power cord to the TV and then to a power outlet.
2. **Antenna:** Connect your terrestrial, BS, or 110-degree CS digital antenna cable to the Antenna Input terminal.
3. **HDMI:** For external devices like Blu-ray players or gaming consoles, connect HDMI cables to HDMI Input 1 or 2.
4. **LAN:** For a wired internet connection, connect an Ethernet cable to the LAN terminal.
5. **USB:** For connecting USB storage devices (e.g., for HDD recording), use the USB terminal.
6. **miniB-CAS Card:** Insert the miniB-CAS card into the designated slot for digital broadcast reception.
7. **Optical Digital Audio Output:** For connecting to external audio systems.
8. **Headphone Output:** For connecting headphones.
9. **Video Input:** For connecting older video devices.

## 2.3 Initial Power-On and Setup Wizard

After connecting all cables, plug in the power cord. The TV will power on and guide you through the initial setup process, which includes:

- Language selection
- Network connection (Wi-Fi or wired)
- Google account login (recommended for full Google TV features)
- Channel scanning for terrestrial, BS, and 110-degree CS digital broadcasts
- Time zone and other basic settings

## 3. OPERATING THE TELEVISION

### 3.1 Basic TV Functions

Use the remote control to navigate the television. Key functions include:

- **Power Button:** Turns the TV on or off.
- **Volume Up/Down:** Adjusts the audio volume.

- **Channel Up/Down:** Changes TV channels.
- **Input/Source:** Selects the input source (HDMI, AV, TV).
- **Home Button:** Accesses the Google TV home screen.
- **Navigation Buttons (Up/Down/Left/Right) and OK:** For menu navigation and selection.

### 3.2 Google TV Interface

The Google TV interface organizes your content from various streaming services and apps into a personalized home screen. Google AI recommends content based on your viewing history and preferences.



Figure 3: The Google TV home screen displaying recommended content and various streaming applications.

You can add favorite content to a "Watchlist" which will be saved across your Google account and accessible from other devices.

### 3.3 Google Assistant (Voice Search)

The TCL 40L5AG supports Google Voice Search and Google Assistant. Press the dedicated Google Assistant button on your remote control and speak into the microphone to search for content, get information, or control smart home devices.



Figure 4: A user interacting with the Google Assistant feature on the TCL TV, demonstrating voice command functionality.

### 3.4 Chromecast Built-in

With Chromecast built-in, you can cast videos, photos, music, and other content from your smartphone, tablet, or computer directly to your TV screen. Ensure your device and TV are connected to the same Wi-Fi network.



Figure 5: An illustration of Chromecast in action, showing a smartphone screen mirroring content to the TCL television.

### 3.5 Accessing Streaming Services

The TV comes with popular streaming services like Netflix and YouTube pre-installed. You can also download other apps from the Google Play Store. Supported services include YouTube, Amazon Prime Video, Netflix, Hulu, Disney+, Apple TV+, U-NEXT, and more.



Figure 6: A family enjoying various streaming services and content on the TCL television.

## 4. KEY FEATURES

### 4.1 Algo Engine Lite

The Algo Engine Lite utilizes an advanced image analysis algorithm to process TV broadcasts and online video content, delivering high-quality visual beauty with enhanced texture and clarity.



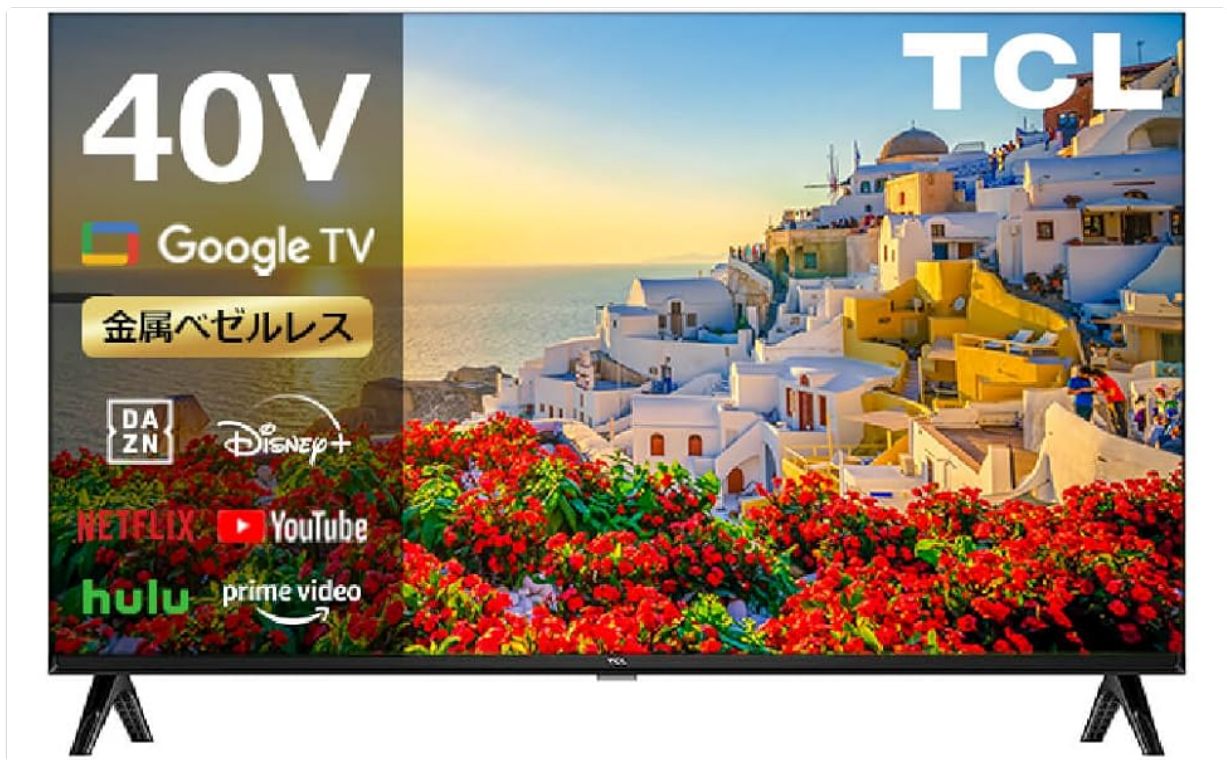


Figure 7: A visual representation of the Algo Engine Lite processor, highlighting its role in image analysis.

## 4.2 Algo Engine - Detail Restoration

This feature minimizes noise, including wave-like patterns in flat image areas, beyond just text and edge noise. It also skillfully upscales HD and 2K content to 4K resolution, reproducing highly detailed images.



Figure 8: Comparison of an image before and after Algo Engine's detail restoration, showing enhanced clarity in a canal scene.

## 4.3 Algo Engine - Superior Contrast (Micro Dimming)

Equipped with "Micro Dimming," the Algo Engine analyzes image information in detail for each zone. This allows for clear separation of light and dark areas, even in subtle details, creating a more realistic sense of depth in landscapes.



Figure 9: A city night scene demonstrating the improved contrast and depth with Algo Engine's Micro Dimming feature.

## 4.4 Algo Engine - Precise Color Management

Through 3D color management, the Algo Engine minimizes color gamut loss during color transitions. It accurately reproduces gradations and colors from the darkest to the brightest areas of an image.



Figure 10: A visual comparison of fruit bowls, illustrating the enhanced color accuracy and vibrancy achieved with Algo Engine's precise color management.

## 4.5 Algo Engine - Evolved HDR Expression

The Algo Engine thoroughly analyzes High Dynamic Range (HDR) images and flexibly adapts to a wide range of brightness levels. This ensures faithful depiction of both bright and dark areas, supporting HDR10/HLG formats (1080p only).



Figure 11: A sunset scene demonstrating the enhanced dynamic range and detail in bright and dark areas with Algo Engine's HDR expression.

## 4.6 Full HD LCD Panel

The television features a Full HD LCD panel with direct-lit LED backlighting, providing bright and high-quality images across the entire screen. The panel resolution is twice that of standard High Vision, allowing for rich expression of diverse content with high-precision visuals.



Figure 12: A comparison showing the difference between HD and Full HD display quality, highlighting the clarity of the Full HD LCD panel.

## 4.7 Dolby Audio

Experience clear and powerful sound with Dolby Audio support, enhancing your overall entertainment experience.



Figure 13: A waterfall scene illustrating the immersive sound experience provided by Dolby Audio.

## 4.8 Bezel-less Design

The television features an ultra-thin metal frame, enhancing immersion and contributing to a sleek aesthetic in your living space.





Figure 14: Close-up views of the TCL television's ultra-thin bezel, showcasing its modern, immersive design.

## 5. MAINTENANCE

### 5.1 Cleaning the Screen and Exterior

- Always unplug the TV before cleaning.
- Use a soft, lint-free cloth to gently wipe the screen. For stubborn marks, slightly dampen the cloth with water or a screen-cleaning solution specifically designed for electronics. Do not spray liquid directly onto the screen.
- Wipe the exterior casing with a soft, dry cloth. Avoid using abrasive cleaners, waxes, or solvents as they can damage the finish.

### 5.2 Software Updates

Your TCL Google TV may receive automatic software updates to improve performance and add new features. Ensure your TV is connected to the internet for these updates. You can also manually check for updates in the TV's settings menu.

## 6. TROUBLESHOOTING

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

Problem	Solution
No power	Ensure the power cord is securely plugged into both the TV and the wall outlet. Check if the outlet is working by plugging in another device.
No picture, but sound is present	Check the input source. Press the "Input" button on the remote to cycle through sources. Ensure external devices are powered on and connected correctly.
No sound, but picture is present	Check the volume level and ensure the TV is not muted. If using external audio, check its connections and settings.
Cannot connect to Wi-Fi	Ensure your Wi-Fi router is on and working. Re-enter the Wi-Fi password. Try restarting both the TV and the router.
Remote control not working	Check and replace the batteries. Ensure there are no obstructions between the remote and the TV's IR sensor.

Problem	Solution
Picture quality issues (e.g., blurry, distorted)	Check the cable connections. Adjust picture settings in the TV menu. For broadcast issues, check antenna connection.
Smart features (Google TV, apps) not responding	Ensure a stable internet connection. Try restarting the TV by unplugging it for a few minutes and plugging it back in. If issues persist, consider a factory reset (see below).

### 6.1 Factory Reset

If troubleshooting steps do not resolve the issue, a factory reset may be necessary. This will erase all personal settings and installed apps, returning the TV to its original factory state. Refer to the TV's settings menu for the exact steps to perform a factory reset.

## 7. SPECIFICATIONS

The following table outlines the key technical specifications for the TCL 40L5AG television:

Feature	Specification
Brand	TCL
Model Number	40L5AG
Display Type	LCD
Screen Size	40 inches
Resolution	Full HD (1920 x 1080)
Aspect Ratio	1.77:1
Contrast Ratio	5000:1
Connectivity Technology	Bluetooth, Wi-Fi
HDMI Ports	2
Output Method	USB, Digital Audio Output
Internet Services Supported	YouTube, Netflix
Speaker Features	16W 2ch
Product Dimensions (D x W x H)	18 x 71.6 x 46.8 cm
Product Weight	8 kg
Annual Power Consumption	76 kWh/year
Wall Mount Compatible	Yes
Release Year	2020

# Google TV搭載、お好みのコンテンツ満載、 あなたのためのスマートテレビ。

Google TV 搭載で、Googleアカウントをお手軽に登録いただき、  
Google AI がご視聴履歴やお好みに合わせて、あなたへおすすめのコンテンツを  
ホーム画面に一括表示されます。外出先でもGoogleブラウザにログインし、  
お気に入りのコンテンツを「見たいものリスト」に追加すると、  
お家のTCL Google テレビの「ライブラリ」に同時保存されます。

※いつでもお好きなコンテンツをご堪能。  
※TCL Google TVとモバイル端末のログインアカウントを一致することが要ります。



Figure 15: Diagram showing the dimensions of the TCL 40L5AG television, including width, height, and depth, along with recommended room size and optimal viewing distance.

## 8. WARRANTY AND SUPPORT

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

**Online Support:** [www.tcl.com](http://www.tcl.com)