ENGLAON

27" LED TV

Model: LED27X90
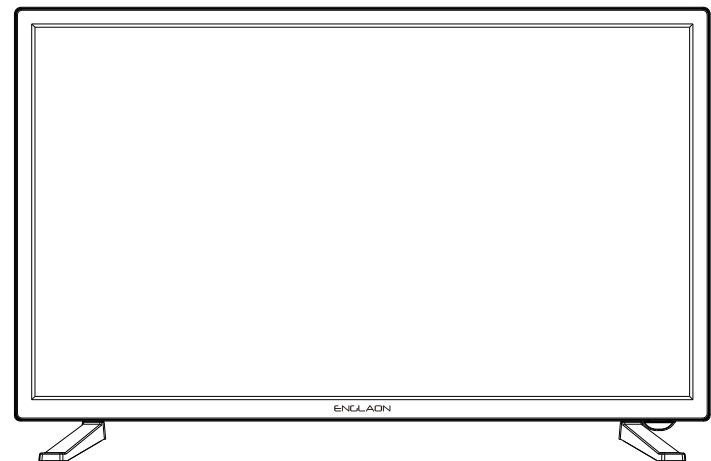
User's Manual

Please Read this manual carefully and retain for future reference

USER'S MANUAL

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.
Do not use this apparatus near water.
Clean only with dry cloth.
Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
Only use attachments/accessories specified by the manufacturer.
Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Unplug the apparatus during lightning storms or when unused for long periods of time.
Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
WARNING：To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
WARNING: The mains plug is used as disconnect device, the disconnect device shall remain readily operable.

CAUTION

RISK OF ELEC TRIC SHOCK
DO NOT OPEN

ATTENTION:RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR

- This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
- Warning: To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.
Apparatus with class I construction shall be connected to a mains socket outlet with a protective earthing connection.
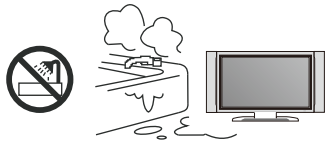
Safety

Please, immediately pull out the AC power plug from adapter if there is an abnormal sound or smell or the LED TV has sound but no picture, and contact after sales support.

The LED TV should be kept free from rain, moisture and dust to prevent electrical shock and short circuits. Do not cover the ventilation openings with table clothes, curtains, newspapers, etc.

The LED TV should be kept from high temperature heating sources or direct sunlight. Good ventilation is required. Allow 10 cm. between the LED TV and other appliances or built-in cabinet walls.
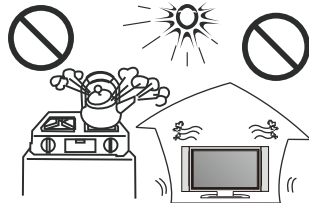
When you wipe the front cabinet, please make sure the power plug is pulled out and use a soft, dry, lint-free cloth and handle it with care. Do not repeatedly wipe the panel, nor scrape, tap or strike the panel with a hard object.
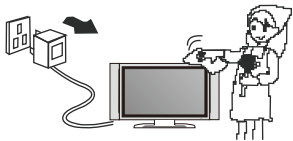
Do not wipe the LED TV with any petrol, chemical or alcohol based solvents as it will lead to product damage of the panel and cabinet.
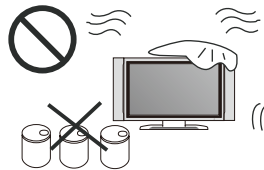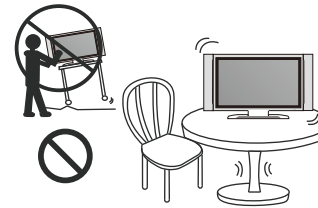
When the television receiver is not used for an extended period of time, it is advisable to disconnect the AC power cord from the AC outlet.
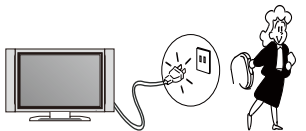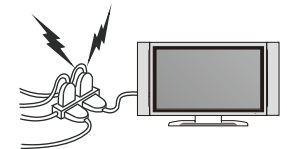
Safety

Do not place the LED TV on an unstable surface.

Do not place the power cord or other cables across a walkway in case it is trampled on. Do not overload the power cord or power socket. When the power plug is used to disconnect and connect the device, it should easily go into the power source.

Do not disassemble the back cover, as it contains high voltages inside and will cause electric shock. Only qualified professionals should conduct internal adjustments, maintenance, and checks.

The TV set should not be subjected to water droplets, vapor, or splash. This equipment should not be placed on objects filled with liquids. Do not place flame sources, such as lit candles, on or near the LED TV. Please, pull out the power plug and contact after sales support if there are abnormal objects or water in the TV.
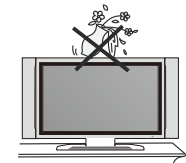
Pull out the power cord and antenna cable during electrical storms so the LED TV is not damaged by electrical surges. Keep all people away from the antenna cable during electrical storms.

Table of Contents

Introduction

Features

Input terminals used for external equipment connection

One AUDIO output
One DVB-S2 input
One DVB-T/T2 input
One OPTICAL output

Two HDMI input
One USB input
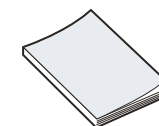One RJ45 input
One CI input
One MINI AV input

Accessories

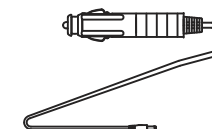Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.
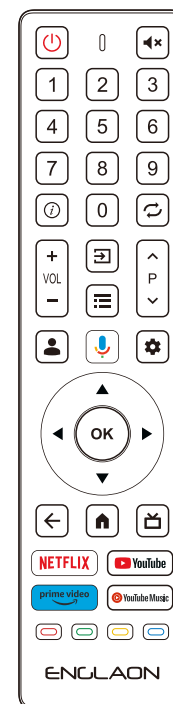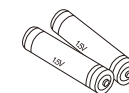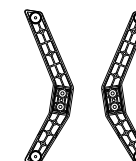
Batteries (AAAx 2)

Instructions Manual

12V/24V Accessory Plug

Remote Control

Screw
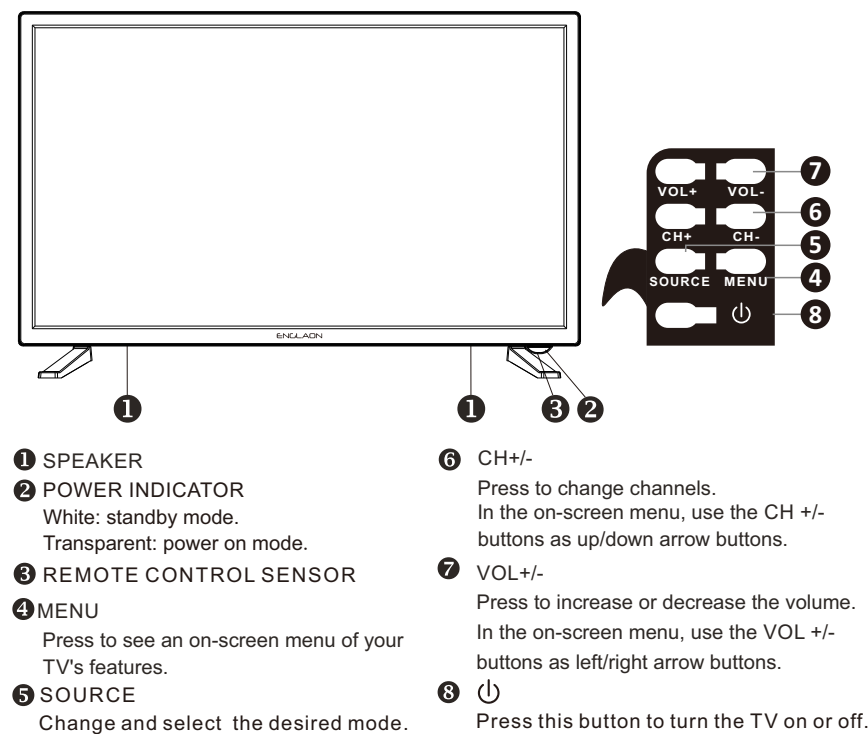
Base

Introduction

Specifications

Display screen type	Color LED display
Model	LED27X90
The maximum resolution	1920X1080
Power supply	DC 12V⎓ 5A
TV system	DVB-T-T2-S2
Frequency range	48. 25MHz－863. 25MHz
Video input Format	PAL/NTSC
Antenna input	antenna socket 75Ω
Average Power Consumption	45W
Dimensions (LXWXH)	With Stand：637.2 x 186.2 x 415.2 mm
	Without Stand：637.2 x 50.9 x 379.0 mm
Weight (Net weight)	4.1 Kg
Operation environment temperature	0°C-35°C

Remarks:

The above listed specifications and data are subject to change without prior notice.

General Description

Panel Control Keys

❶ SPEAKER

❷ POWER INDICATOR
   White: standby mode.
   Transparent: power on mode.

❸ REMOTE CONTROL SENSOR

❹ MENU
   Press to see an on-screen menu of your TV's features.

❺ SOURCE
   Change and select the desired mode.

❻ CH+/-
   Press to change channels.
   In the on-screen menu, use the CH +/- buttons as up/down arrow buttons.

❼ VOL+/-
   Press to increase or decrease the volume.
   In the on-screen menu, use the VOL +/- buttons as left/right arrow buttons.

❽ ⏻
   Press this button to turn the TV on or off.

General Description

Overview of back panel

Port

DC 12V	HDMI2	HDMI1	DVB-T/T2	DVB-S2 (EU and NZ only)	CI (EU and NZ only) MINI AV IN	AUDIO OUT	USB	RJ45	OPTICAL OUT
①	②	③	④	⑤	⑥	⑦	⑧ ⑨	⑩	⑪

1. DC 12V
DV 12V input
2. HDMI 2
Connecting for HDMI.
3. HDMI 1
Connecting for HDMI.
4. DVB-T/T2
Connected to external antenna to receive the ATV/DTV program in ATV/DTV mode.
5. DVB-S2 (EU and NZ only)
Connected to external SATELLITE to receive.

6.MINI AV
Connecting for VIDEO signal input in Composite mode.
7.AUDIO OUT
Connecting for audio.
8.CI (EU and NZ only)
Used to insert the CI card.
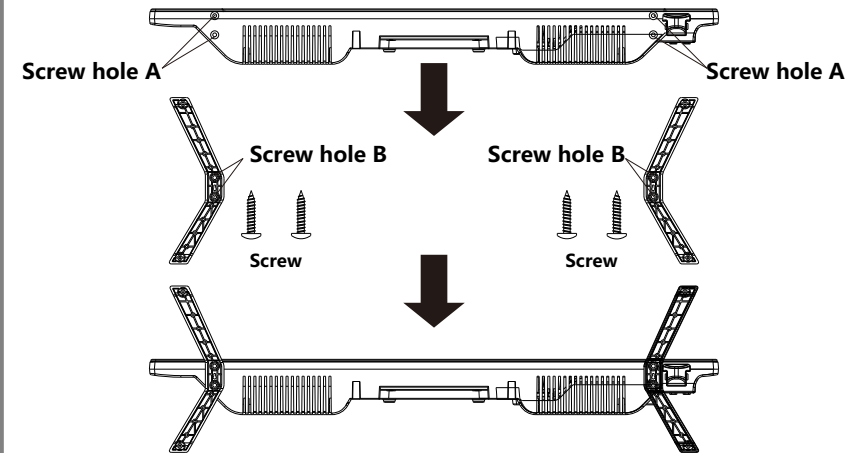**9. USB**
Connecting for USB signal.
10. RJ45
Ethernet connection for.
11. OPTICAL
Digital audio output.

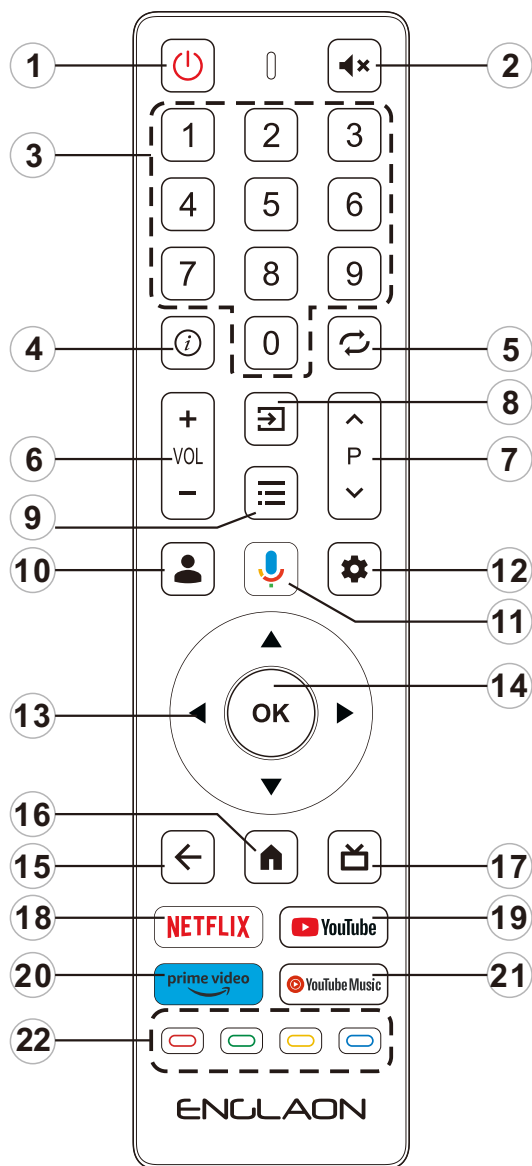## General Description

Assembling Stand Process

Screw hole A

Screw hole A

Screw hole B

Screw hole B

Screw

Screw

Instruction:
1.Place the TV unit on a flat and clean table.
2.Fix stand by 4 pcs screws via screw hole B and A.

Bluetooth voice remote control operation manual
Bluetooth Pairing
If the Bluetooth of remote control is not paired, press the Google Assistant key, then long press [←]+ [⌂]keys to pair. When the TV show the device, select it and press **[OK]** key to finish.

Note:
Some models may not be supported.
Your Location must correspond to the language for exact search results. Some functions may not be available if your location settings and language settings are different. You can change the language according to language input settings. The languages available for Google Assistant may be changed in accordance with service operation policy. Details of service may vary by model.
Before you use Google Assistant, you should make sure remote control paired.

1. POWER: Switch between working and standby status.
2. Mute (◀×) : Turn on/off the sound.
3. Number keys: Select the channel or input numbers.
4. ⓘ : Show information bar.
5. ⇄ : Return to the previous channel.
6. VOL +/-: Turn up/down the volume.
7. P +/-: Change channel.
8. Source(⊒): Display signal source menu.
9. Menu(☰): Open setting menu.
10. ☻ : Manage Google Account. (It is valid after login)
11. ⬥ : Microphone / Google Assistant Use your voice to search for shows.
    Control devices, and more -just ask Google Assistant.
12. Setup(⚙): Display the Dashboard interface.
13. ▲/▼/◀/▶ : Select items or adjust values.
    In TV mode, press ◀ key to open channel list.
14. OK: Show the main menu(In TV mode).
    Confirm the operation.
15. Back(←): Return to previous menu or exit the menu.
16. Home(⌂): Display home page.
17. ▣ : Electronic program guide.
18. **NETFLIX** : Open application.
19. ▶YouTube : Open application.
20. prime video : Open application.
21. ▶YouTube Music : Open application.
22. Red key / Green key / Yellow key / Blue key: Special function keys.
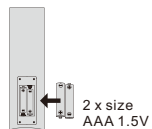
General Description

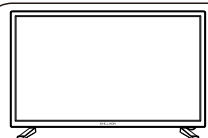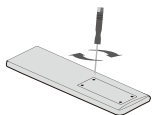### Installing Batteries in the Remote Control

Installing Batteries

1 Use the accessory screwdriver to remove the four screws of the battery cover of the remote controller and open the battery cover.
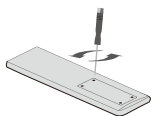
2 Insert two 1.5V AAA size batteries in correct polarity. Don´t mix old or used batteries with new ones.

2 x size
AAA 1.5V

3 Lock the four screws on the battery box cover of the remote controller with a screwdriver. Please keep the screwdriver.

30° 30°

✦ Point the remote towards the remote control sensor of the wireless TV and use it within 7 meters.

✦ Put the used batteries into the recyc-ling bin since it can negatively affect the environment.

Note:
1) A loading of batteries should be last one year under normal use.
2) If you don't intend to use the remote control for a long period of time, remove batteries to avoid damage due to leakage.
3) Do not mix old and new batteries or different types.
4) Do not throw batteries into fire or water.
5) The batteries (battery pack or batteries installed) should not be exposed to excessive heat such as sunshine, fire or the like.
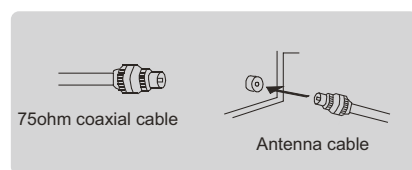
External Connection

Antenna connection

Antenna input impedance of this unit is 75ohm. VHF/UHF 75ohm coaxial cable can be connected to the antenna jack directly, if the antenna cable is 300ohm parallel flat feeder cable, you need to use the 300ohm/75ohm converter to connect the antenna cable to the antenna jack. For details Please refer to the following drawing.

Antennas with 300ohm flat twins Leads

Use a 75ohm - 300ohm converter

ANT IN

300ohm coaxial cable

Antenna feeder
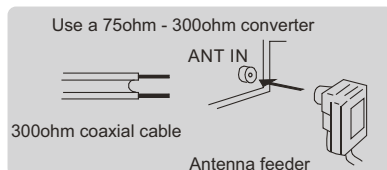
Antennas with 75ohm Round Leads

75ohm coaxial cable

Antenna cable

External Connection

Connecting DVD Player/Set-Top Box via HDMI

This connection can only be made if there is a HDMI Output connector on the external device.

TV Rear Panel

DVD Player/Set-Top Box

IN HDMI

OUTPUT

RF INPUT   HDMI   VIDEO   AUDIO

HDMI Cable (Not supplied)
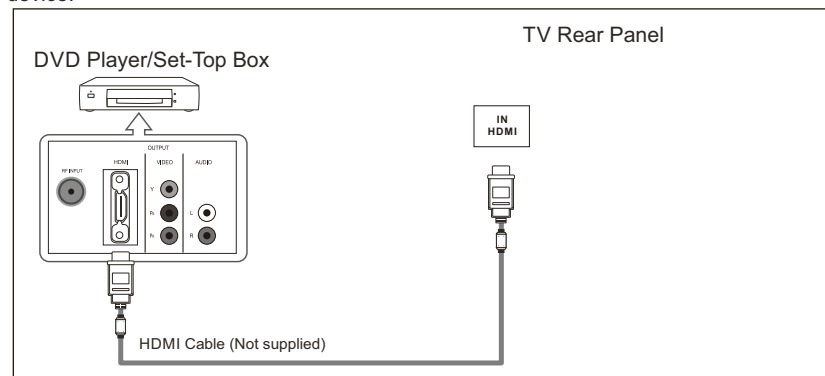
What is HDMI?

HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression.

Multimedia interface is a more accurate name for it especially because it allows multiple channels of digital audio (5.1 channels).

The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP(High Bandwidth Digital Copy Protection) coding feature installed, and supports multi-channel digital audio.

Each DVD player/STB has a different back panel configuration.

We recommend the use of cables with a Ferrite Core.

1. Connect an HDMI Cable between the HDMI connector on the TV and the HDMI connector on the DVD player/Set-Top Box.

External Connection

Connecting   EARPHONE

EARPHONE
OUT

Phone Out

1.Plug EARPHONE out connector into EARPHONE out jack on the TV the TV speaker will
  be muted.

Supporting signals

Input	Resolution	VerticalFrequency
Component	480p	60Hz
	720p	60Hz
	1080i	60Hz
	1080p	60Hz
HDMI	480p	60Hz
	720p	60Hz
	1080i	60Hz
	1080p	60Hz

Basic Operation

Turning the TV On and Off

How to turn the TV on or off

1. Insert the power cord plug into a polarized DC outlet.

2. Press **POWER** button on the remote control or⏻ button on the LED TV.

3. Normal picture will be displayed on the screen after 6 seconds. If no signal input,
   "No Signal" will be displayed on the screen.

4. If temporary POWER off is required, press **POWER** button on the remote control or⏻
   button on the LED TV.

5. Press and hold the power button for 6 seconds to completely turn off this device,
   after which you may choose to power it off or restart the TV, or you can unhook
   the unit's power cord plug.

6. After switching off the device, you should turn on the TV again at least 5 seconds later.

Status indication lamp
   White: standby mode.
   Transparent: power on mode.

Auto power-off
   If there is no signal input in any Mode, the TV will automatically accesses the standby
   state in about 15 minutes.

Memory before turning TV off
The settings of picture and the preset channels will be memorized at turning off the unit.
When being started up again, the unit will work according to the mode set before being
turned off.

Basic Operations

Remark:
1. The keys operation here refers to remote control operation, as for panel control keys operation, please refer to **"Panel Control Keys"**.
2. Menu Operation Instruction in this manual explains the operation under TV mode, which could also be the reference to other modes.
3. Before powering on platform, please make sure that the power supply is stable.
4. The software of different countries is different. The specific software operation should be subject to the actual situation.
5. Because the product is constantly updated, the software is upgraded at any time, if the software operation is different from the actual operation, please refer to the actual product.

Turning on/Standby

Plug power cord into the electrical socket, then press [⏻] key to turn on the TV, when it is the first time to turn on the TV, the Initialization Settings interface appears, please set it as needed.
In power on state, press [⏻] key to switch to standby mode.

Signal source selection

You can connect various devices to the TV set and view high quality images.
If the video device has HDMI, Composite and other video output ports.
You can select one of them and connect to corresponding input ports of the TV set.
After connection, turn on the device and press [⊟] key, then menu of signal source will be displayed on the screen. Press the [▲]/[▼] key to select the input signal, and press [**OK**] key to confirm.

Menu operation description

Press [OK] key to show the main menu on the screen:
1. Press [▲]/[▼] key to select a menu from **Channels, TV Options**.
2.Press [◄]/[►] key to select an item in the menu.
3. Press [OK] key to enter the submenu.
4. Press [▲]/[▼] key to adjust the value or setting.
5. Press [←] key to return previous menu or exit the menu.
6. During menu operation, the icons of invalid options are gray.

ATV Scanning

After selecting ATV source, press [⚙]key, and press [▲]/[▼]/[◄]/[►]key to select ⚙ >**Channels & Inputs > Channels > Channel Scan**, then press [**OK**] key to enter.
-Select **Analogue Auto Scan**, and press [**OK**] key, then the machine starts auto scanning.
-Select **Analogue Manual Scan**, and press [**OK**] key, then set **Program, Audio System, Color System**. Select **Frequency**, and press [**OK**] key, then select **Scan Up** or **Scan Down**, and press [**OK**] key, the machine starts scanning.

DTV Scanning

After selecting **Cable/Antenna** source, press[⚙] key, and press [▲]/[▼]/[◄]/[►] key to select >**Channels & Inputs > Channels > Channel Scan >Tuner Mode > Antenna/Cable**, then press [←] key.
If the tuner mode is **Antenna**.
-Select Antenna **Auto Scan**, and press [**OK**] key, then the machine starts auto scanning.
-Select **Antenna Manual Scan**, and press [**OK**] key. Set **Channel Number, Frequency(MHz),Bandwidth(M)**, and select **Start Scan**, then press [**OK**] key, the machine starts scanning.
If the tuner mode is **Cable**.
- Select Cable **Auto Scan**, and press [**OK**] key, then set **Scan Type, Frequency(MHZ), Network ID**. Select **Start**, and press [**OK**] key, then the machine starts auto scanning.
- Select **Cable Manual Scan**, and press [**OK**] key. Set **Channel Number, Frequency(MHZ)**, and select **Start Scan**, then press [**OK**] key, the machine starts scanning.

REC optionIn

DTV mode, press [**OK**] key, select **Channels >Start Recording**. Press [**OK**] key to select recording time, then press [**OK**] key to start recording. In the process of recording, select **Channels > REC**[■],then press [**OK**] to save and exit recording. Press [**OK**] key, then select **Channels > Recorded Programs**. Select the file that you want to play, and press [**OK**] key. Select **Play recording**, then press [OK] key to play it.
While playing, you can press[←]key to exit playing.
Note: Only the memorizer with FAT32 file system supports the recording function. Memorizer with other file systems need to be formatted; Before formatting memorizer, please back up useful data because the content of memorizer can not recover after formatting.

Time Shift option

In DTV mode, press [**OK**] key, and select **Channels> Start Time Shift**, then pres [**OK**] key to turn on the time shift function. Press [←] key to stop and exit time-shift. When user pauses program for a short time, time-shift function can suspend and cache the playing program to U disk. When user resumes playing, the program can continue to be played.

Instructions for quick start
Note: Please log in to your Google Account to get access to more features.

Basic Operations
Press [🏠] key to show the home page.
1. Press [◄]/[►] key to select an application;
2. Press [**OK**] key to run the application;
3. Press [←] key to return to previous page.
4. Long press [🏠] key to pop up the **Dashboard** interface.

Quick Start
Before using this device, please get familiar with the operations below for better experience.
Language input setting
Language: In the smart mode, select the system language. Press [⚙] key, and select ⚙ > **System>Language**, and press [**OK**] key. Press [▲]/[▼] key to select the desired language, and then press [**OK**] key.
Selecting Input Method: In the smart mode, press [⚙] key, and select ⚙ > **System > Keyboard >Current keyboard**, and press [▲]/[▼] key to choose input method.
Setting System Time: In the smart mode, press[⚙]key, and select ⚙ > **System > Date & Time >Automatic date & time**, then select **Use network-provided time**.
You can also set the system time manually.

Smart Applications
Apps: The **Apps** helps users manage applications, and allows users to install or uninstall apps in local disk.
Press[🏠] key, then press [▲]/[▼]/[◄]/[►]key to select an application and press [**OK**] key to enter.
How to install an application?
Press [🏠] key, and select apps, then press [**OK**]key to enter, search apps you want and install them.
How to uninstall an application?
Press [🏠] key, and select the app that you want to uninstall, long press [**OK**] key and select to View detaiis and uninstall it.
Media Player: Open **Media Player** app, and press [**OK**] key to enter and select **Photo, Audio, Video** and **ALL**.
Playing Files in local disk device: Before playing files in the local disk, insert the USB mass storage device into the USB interface.
Open **Media Player** app, and press [**OK**] key to enter. Select the target folder or file, press [**OK**] key to enter the folder or play the file, and press [←] key to return to the desktop.
Attention:
1. Non-standard USB devices can't be recognized probably; in this case, please replace a standard USB device;
2. The stream media system has certain restriction on the format of files; the playing will be abnormal if it is out of the system restriction;
3. Do not remove the USB device while playing, or else the system or device may have problem; Before replacing the USB device, please turn off the machine's power supply;
4.The system supports standard USB1.1 andUSB2.0 devices, such as USB mass storage devices and mobile hard disks;

5. The maximum output current of the USB port of this device is 500mA, and the self-protection will be enabled if it is beyond this limit; please use external power supply if an external device of higher current will be connected;
6. The system is complicated; when it is reading or playing files, the screen may be still or certain functions may be invalid due to the compatibility and stability of the USB device; in this case, please turn off the device and re-initialize the system. Press [**OK**] key to perform the operation; you can press [←] key to exit playing.

Network Settings
Wi-Fi
1. In smart mode, press [⚙] key, select ⚙ **>Network & Internet > Wi-Fi**, and press [**OK**] key to turn on WiFi, then the machine automatically searches for nearby wireless network signal. The network searched without 🔒 icon indicate that the machine can connect to the network without a password. The network with 🔒 icon indicate that it is encrypted and you must enter the correct password to connect to the network;
2. Select the desired network from the list, and press [**OK**] key;
3. Enter the password in the password box, then select √ and press [**OK**] key to connect to network.
Ethernet
1. Press[⚙]key, then select ⚙ **> Network &Internet > ETHERNET**;
2. Set **Proxy settings** and **IP settings**, then press [**OK**] key to connect to the internet.

Wake On Network
It allows remote systems to wake up the sleeping TV by sending a frame of a specific format which the client anticipates. (It is available when network isconnected.)
Press [⚙] key, and select ⚙ **> System >Television > Settings > Power > Wake On Network**, then press [**OK**] key to set it to on or off.

Bluetooth Setting
In smart mode, press [⚙] key, and select ⚙ **>Remotes & Accessories**, then press [**OK**] key to enter. Select the device which you want to connect to and press [**OK**] key, then follow the prompt to connect.
Note: Select ⚙ **> System > About > Device Name**, and you can check the TV name.

Recommendations
Google Assistant
Use your voice to search for shows, control devices, and more - just ask Google Assistant.
Google Cast™
Easily cast movies, shows, photos, and more from your phone right to your TV.

Important Statement on Network Services

All contents and services obtained from this TV set belong to the third party and are protected by laws on copyright, patent right, trademark right and/or other intellectual property right. The said contents and services are only for your non-commercial purposes. It is not allowed to use any content or service without the authorization of the content owner or the service provider.

Our company will undertake no liability for any direct, indirect and accidental losses or damages caused by your or a third party's access to any content or service or any information or any third party software through this set under any circumstances. Third party service may be changed, deleted or stopped without prior notice. Our company neither implies nor guarantees the continuous availability of some service or content within any period of time.

Our company is not held responsible for services related to the said service and content. Besides, we will not bear any liability for client service. Please directly contact relevant content and service providers if you have any problem and service request concerning relevant service or content.

Troubleshooting

Snowflake spots occur in the TV images and there is noise in accompanying sound.
1. Check if the antenna plug is loose or the cable is in good condition.
2. Check the antenna type (VHF/UHF).
3. Adjust the direction and position of the antenna.
4. Try to use signal enhancer.
There is neither display nor sound on the screen. The indication light is not on.
Check if the power line is connected.
Dotted line or strip disturbance occurs in Tv images.
Do not use electric hair dryer aside the TV set and adjust the antenna direction to reduce disturbance.
Double images occur on the TV screen.
1. Use high oriented antenna.
2. Adjust the direction of the antenna.
The TV has no accompanying sound.
1. Adjust the volume to a proper degree.
2. Press [◀×] key on the remote control to cancel mute mode.
No signal input images show on the machine screen. The indicator light is blinking.
1. Check if the signal connecting cable is loose or falls off. Reconnect it.
2. The machine may be in standby mode, please reboot. The remote control distance is short or out of control.
1. Remove the object to avoid blocking the remote control receiving window.
2. Replace the battery.
The browser cannot access any link.
1. Ask the network administrator to obtain available IP address and other parameters.
2. Check if the network connecting cable is normally connected.
3. Consult the network service provider.
Online video play is very slow.
1. Please upgrade your network bandwidth to a higher one.
2. Please try to replace with other addresses to obtain better resources.
Machine is slow, system crash, can't operate the machine.
Disconnect the power supply first, and connect the power supply after about 1-2 minutes, then turn on the TV again.

If you have any problem, check the countermeasures for each symptom listed below. The following symptoms may have caused by inappropriate adjustment rather than actual malfunction of the unit. If the trouble persists, contact the service center.

Symptoms	Possible solutions
No power	Disconnect the power cord, wait 60 seconds then reconnect the power cord and restart the TV.
No picture	Check antenna connection. Station may experience problems, please tune to another station. Please adjust the settings of contrast and brightness.
Good picture but no sound	Increase the volume. please check sound settings.
Good sound but abnormal color or no picture	Check the antenna connection.
No remote control	No support for this function.
Full screen flickering under VGA	V-HEIGHT value may be set too big, restart computer and enter safe mode, then set monitor parameters to correct value according to adjustment description.
Horizontal stripes under VGA	Sample phase may be deflected, adjust phase according to picture position.
Colored dots may be present on the screen	This product is the high resolution LED display device and a few cell defects can occur in the manufacture of the LED. Several colored dots visible on the screen would be acceptable. in line with other LED manufacturers and would not mean that the LED is faulty. We hope you will understand that it could not be changed or refunded.

Picture defects and the reason

Snowy Picture

Snowy picture is usually due to weak signal. Adjust antenna or install an antenna amplifier.

Double Image or Ghosts

Double images are usually caused by reflections from tall buildings. Adjust the direction of the antenna or raise it.

Radio Wave Interference

Wave patterns are moving on the screen, which are usually caused by nearby radio transmitters or short-wave receiving equipment.

High Temperature Electrothermal Interference

Diagonal or herringbone patterns appear on the screen or part of picture is missing. This is probably caused by high temperature electrothermal equipment in a nearby hospital.