

TOSHIBA

OWNER'S MANUAL

LED TV / DISPLAY

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

DOLBY AUDIO™

32L5865 Series

43L5865 Series

49L5865 Series

For EA models

TOSHIBA EL ARABY VISUAL PRODUCTS

Kofor El Raml, Quesna Industrial City, 3rd Zone,

Quesna, Egypt

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For EA/EE/EV/EK models

TOSHIBA GULF FZE

TOSHIBA EL ARABY VISUAL&APPLIANCES

MARKETING COMPANY

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Owner's Record

You will find the model number and serial number on the back of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your TOSHIBA dealer regarding this product.

Model number:

Serial number:

Contents

Welcome to Toshiba

- Thank you for purchasing this Toshiba LED TV. This manual will help you use the exciting features of your new TV.
- Instructions in this manual are based on using the remote control.
- Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.
- LED TV is LCD Panel with LED Backlight.

Contents

Content	1
Important Safety Precautions	2
Getting started	5
Accessories List.....	5
Installing the Stand or Wall Mount Bracket.....	5
TV Front.....	5
TV Rear.....	6
Terminals.....	7
Ethernet.....	8
Wireless.....	8
Using HDMI & CEC Function.....	8
Connecting with an HDMI(ARC) Cable.....	8
Connecting with an HDMI Cable.....	9
Common Interface.....	9
Connecting with an USB Cable.....	9
Remote Control	10
Buttons on the Remote Control.....	10
Installing Batteries in the Remote Control.....	11
Remote Control Operation Range.....	11
General Operation	12
Turning the TV on for the First Time.....	12
Channel Scan.....	12
Channel Edit.....	12
Channel List.....	12
Favorite.....	13
Guide.....	13
PVR.....	13
Recording List.....	14
Timeshift.....	14
Picture and Sound.....	15
System and Support.....	16

Smart Functions	17
Screen Mirroring.....	17
Anyview Stream.....	17
Getting Familiar with the Home Screen.....	17
Playing Media Contents.....	17
Troubleshooting	19
Picture Problem.....	19
Sound Problem.....	19
Picture and Sound Problem.....	19
Internet Problem.....	19
Recording/Timeshift Function Isn't Working.....	20
My File Won't Play.....	20
Other Issues.....	20
Specifications	21
License Information	24

Disclaimer:

Images throughout this document are for illustrative purposes only and may differ from the actual product.

Designs and specifications are subject to change without notice.

Important Safety Precautions

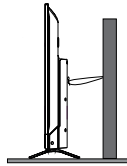
Be sure to observe the following instructions and precautions to ensure safe use of this TV.

Installation

- 1. WARNING: To prevent injury, this apparatus must be securely attached to a stable surface/wall in accordance with the installation instructions.**

Install the TV in a horizontal, stable location.

- If the TV is not installed securely, it may lean or fall over and cause an injury.
- To prevent injury, use the exclusive optional stand or wall-hanging bracket to install this TV on a stable surface or wall securely in accordance with a qualified technician
- To secure the TV, use a sturdy strap from the hook(s) on the rear of the TV to a wall stud, pillar, or other immovable structure. Make sure the strap is tight, secure, and parallel to the floor.



Only for the model with P-clip

- 2. Never place the TV in an unbalanced location such as on a shaky table, incline or location subject to vibration.**

- Only use cabinets or stands recommended by the TV manufacturer.
- Only use furniture that can safely support the TV.
- Ensure that the TV is not hanging over the edge of the supporting furniture.
- Never place the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.
- Never stand the TV on cloth or other material placed between the TV and supporting furniture.

The TV may drop or fall off, which may cause an injury or damage.

- 3. Never stand or climb on the TV.**

- Educate children about the dangers of climbing on furniture to reach the TV or its controls.

Be especially careful in households with children to prevent them through climbing on top of the TV. It may move, fall over, break, become damaged or cause an injury.

- 4. Always connect the power plug to an appropriate electrical outlet equipped with 100-240V AC, 50/60Hz.**

Never use the TV outside the specified voltage range. It may cause a fire or an electric shock.

About the fuse

In a three pin earthing-type, the fuse fitted in this plug is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted.

About the use

- Make sure to insert the plugs firmly, when plugging the AC power cord into the TV set end and wall outlet end.
- Make sure to hold the plug, when unplugging the AC power cord.
- Never use other cord except for supplied AC power cord, and never use the supplied power cord for any other purpose.

- 5. Never insert or remove the power plug with wet hands.**

This may cause an electric shock.

- 6. Never block or cover the slots and openings in the cabinet.**

- Never place the TV so that it is facing upward or on its side.
- Never place the TV in a closet, bookcase or other similar area where the ventilation is poor.
- Never drape a newspaper, tablecloth or curtain on the TV.
- When installing the TV against a wall, always keep the TV at least 10cm away from the wall.
- Never place the TV on a soft unstable surface, such as a carpet, or a cushion.

The inside of this TV will overheat if the ventilation holes are covered, blocked or sealed, which may result in a fire.

- 7. Never place the TV near a heater or in direct sunlight.**

The surface of the cabinet or power cord may melt and result in a fire or an electric shock.

- 8. Never place the TV in an area exposed to high humidity levels, such as in a bathroom or close to a humidifier.**

This may cause a fire or an electric shock.

- 9. Never place the TV next to a stove where it will be exposed to oil, smoke, or steam, or in a location where there is a large quantity of dust.**

This may cause a fire or an electric shock.

- 10. Precautions for moving the TV.**

- When moving the TV, be sure to remove the plug from the wall outlet and disconnect the aerial cable and audio/video cables, any steady ties and mounting screw. A fire or an electric shock may result if the power cord is damaged.
- When carrying the TV, at least two people are needed. Be sure to carry it upright.
- Never carry the TV with the screen facing up or down.

- 11. Precautions for installing on outdoor aerial.**

An outside aerial system should not be located in the vicinity of overhead power lines, or other electric light or power circuits.

If the aerial falls down or drops, it may cause an injury or an electric shock.

Use

- 1. Never place hot objects or open flame sources, such as lighted candles or nightlights, on or close to the TV.**

High temperatures can melt plastic and lead to fires.

- 2. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.**

When liquids are spilled or small items are dropped inside the TV, this may cause a fire or an electric shock.

If small objects drop inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician.

- 3. Never insert objects (metal or paper) or pour water inside the TV through ventilation holes and other openings.**

These items may cause a fire or an electric shock. If these objects are inserted inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician. Be especially careful that children do not insert objects in the TV.

- 4. When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the**

Important Safety Precautions

wall outlet for safety.

The TV is not completely disconnected from the power supply line, as minute current is consumed even when the ⏻ Power switch is turned off.

The Mains plug or an appliance coupler is used as the disconnect device, therefore the disconnect device shall remain readily operable.

5. Never pull on the power cord when removing the plug from the wall outlet.

Always hold the plug firmly when removing it. If the power cord is yanked, the cord may become damaged and a fire or an electric shock may occur.

6. Never cut, break, modify, twist, bunch up or bent the cord or apply excessive force or tension to it.

Never place heavy objects on the cord or allow it to overheat as this may cause damage, a fire or an electric shock. Contact a service technician if the power cord is damaged.

7. If there is thunder or lightning, never touch the aerial cable or other connected cables.

You may suffer an electric shock.

8. Turn off the TV before unplugging the power cord.

Failure to do so, may cause a malfunction.

9. Listening to music at high volume levels and for extended durations can damage one's hearing.

In order to reduce the risk of damage to hearing, one should lower the volume to a safe, comfortable level, and reduce the amount of time listening at high levels.

10. In dry environment due to static electricity, the product may be restart and return to the main OSD interface, USB player interface or the previous source mode.

You can continue to use the TV when appear this phenomenon.

Service

1. Never repair, modify or disassemble the TV by yourself.

It may cause a fire or an electric shock.

Consult a service technician for inspection and repairs.

2. When a malfunction occurs, or if smoke or an unusual odor comes from the TV, turn off the TV and remove the power plug from the outlet immediately.

Make sure that the smoke or smell has stopped, then contact a service technician. If the TV is still used in this condition, it may cause a fire or an electric shock.

3. If the TV is dropped or the cabinet is broken, turn off the TV and remove the power plug from the outlet immediately.

If the TV has power in this condition, it may cause a fire or an electric shock. If the cabinet is broken, be careful when handling the TV to prevent an injury.

Contact a service technician for inspection and repair.

4. When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV.

Cleaning

CAUTION: Avoid using chemicals (such as air refreshers, cleaning agents, etc.) on or near the TV pedestal. Studies indicate that plastics may weaken and crack over time from the combination effects of chemical agents and mechanical stress (such as weight of TV). Failure to follow these instructions could result in serious injury and/or permanent damage to TV and TV pedestal.

1. Remove the power plug before cleaning.

Never use solvents such as benzine or thinner to clean the TV.

- These solvents may distort the cabinet or damage its finish.
- If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.

If the cabinet becomes dirty, clean it with a soft, dry cloth.

When cleaning the surface of the LED display, wipe the panel surface gently with a soft, dry cloth.

2. Periodically disconnect the power plug from the outlet and check it.

If dust has collected on the power plug connectors, clean off the dust with a dry cloth.

This dust may cause a fire due to reduced insulation on the plug.

Important information

1. About LCD screen

- If you have the LCD screen facing to the sun, the LCD screen will be damaged. Be aware of locating the TV close to a window or outdoors.
- Never press the LCD screen strongly or scratch it, and never put anything on it. These actions will damage the LCD screen.

2. About cabinet and LCD screen

Never spray volatile compounds such as insecticide on the cabinet and LCD screen. This may cause a discoloration or damage the cabinet and LCD screen.

3. About afterimage

If a still picture is displayed, an afterimage may remain on the screen, however it will disappear. This is not a sign of malfunction.

4. Some pixels of the screen do not light up

The LCD display panel is manufactured using an extremely high level of precision technology, however sometimes some pixels of the screen may be missing picture elements or have luminous spots. This is not sign of malfunction.

5. About Interference

The LCD display may cause interference in image, sound, etc. of other electronic equipment that receives electromagnetic waves (e.g. AM radios and video equipment).

6. About using under the low temperature places

If you use the TV in the room of 0°C or less, the picture brightness may vary until the LCD monitor warms up. This is not a sign of malfunction.

7. When disposing of or transferring ownership of the TV

Before disposing of or transferring ownership of the TV, perform "Resetting the TV".

Important Safety Precautions

Recording using an USB storage device

- Be sure to select the correct country/region for use.

Use of the recording function may not be possible depending on the selected country/region.

Use with incorrect settings may violate certain laws or other regulations, and may result in criminal punishment.

In such cases, TOSHIBA CORPORATION and the Toshiba Group shall bear no responsibility whatsoever.

- The recording function has been designed for private use and entertainment in your home environment.

Please note that any commercial use of the recording function could lead to copyright infringement of authors' rights. Toshiba asks you to respect the intellectual property rights of third parties.

- Before recording to a device connected to the TV, make a test recording and check the recording performance.
- Toshiba shall not be liable for compensation or incidental damages of any kind whatsoever resulting from content that was not properly recorded on the recording device or that was modified or lost.
- Toshiba shall not be liable for damages of any kind whatsoever (breakdown of the recording device, modification or loss of the recorded content, etc.) resulting from malfunction, operating failure or incorrect operation due to combining with another connected device.
- Do not turn off the power supply to the USB storage device or disconnect the connecting cable while the USB storage device is operating. Doing so may result in loss of the recorded data or malfunction of the USB storage device.
- The recording function is not available in all countries/regions.
- Please note that recording on the USB storage device is no longer playable after the TV's main-board is exchanged during service.
- If the time information is incorrect, programed recording may not be performed properly.

Furthermore, if the time information differs according to the currently viewed channel, programed recording may not be performed properly depending on tuning operations.

Exemptions

- Toshiba is not liable for any damage caused by fires, natural disaster (such as thunder, earthquake, etc.), acts by third parties, accidents, owner's misuse, or uses in other improper conditions.
- Toshiba is not liable for incidental damaged (such as profit loss or interruption in business, modification or erasure of record data, etc.) caused by use or inability to use of product.
- Toshiba is not liable for any damage caused by neglect of the instructions described in the owner's manual.
- Toshiba is not liable for any damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment.

When using a wireless network

CAUTION:

- Bluetooth™ and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth™ and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network

performance or even lose your network connection.

- If you should experience any such problem, immediately turn off either your Bluetooth™ or Wireless LAN device.
- Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage.
- Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Wireless LAN and your Health

Wireless LAN products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless LAN devices, however, is far less than the electromagnetic energy emitted by wireless devices such as mobile phones.

Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendation reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situation or environments, the use of Wireless LAN may be restricted by the proprietor of the building or responsible representatives of the organization. Such restrictions may apply in environments where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific organization or environment, you are encouraged to ask for authorization to use the Wireless LAN device prior to turning on the equipment.

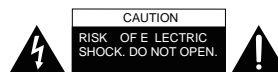


This equipment is a Class II or double insulated electrical appliance.

It has been designed in such a way that it does not require a safety connection to electrical earth.



AC voltage: This symbol indicates that the rated voltage marked with the symbol is AC voltage.



- 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.

Getting started

Accessories List

The following accessories are included with TV:

OWNER'S MANUAL x 1 Base Stand x 2 Remote Control x 1

AAA Battery x 2 Screw x 4

Power Cord x 1 (only for 32" / 43")

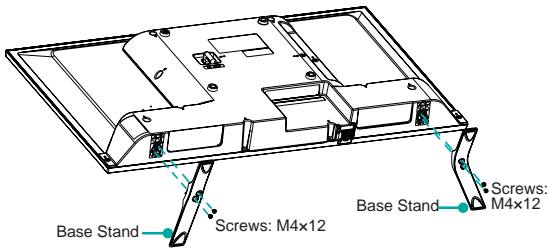
Installing the Stand or Wall mount bracket

Installing the Stand

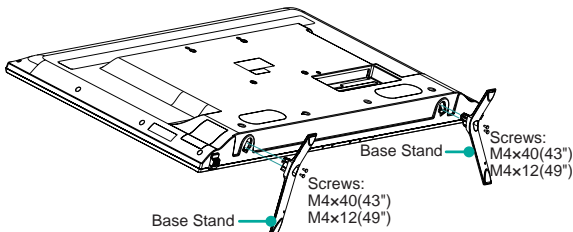
CAUTION

- Be sure to disconnect the A/C power cord before installing a stand or Wall-Mount brackets.
 - The LED display is very fragile, and must be protected at all times when installing the base stand. Be sure that no hard or sharp object, or anything that could scratch or damage the LED display, comes into contact with it. DO NOT exert pressure on the front of the TV at any time because the screen could crack.
1. Carefully place your TV face-down on a soft, flat surface to prevent damage to the TV or scratching to the screen.
 2. Remove the 2 stands from the accessory bag and then insert the stands into the bottom slots of the TV.
 3. Secure the Base Stand to the TV with the 4 screws in accessory tightly.

32"



43" / 49"

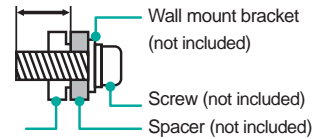


Installing the wall mount bracket (not included)

Wall mount hole pattern VESA (mm)	200 x 200
Wall mount screw size (mm)	M6

8.0~10.0mm(32"/43")

9.5~11.5mm(49")



Rear cover of the TV

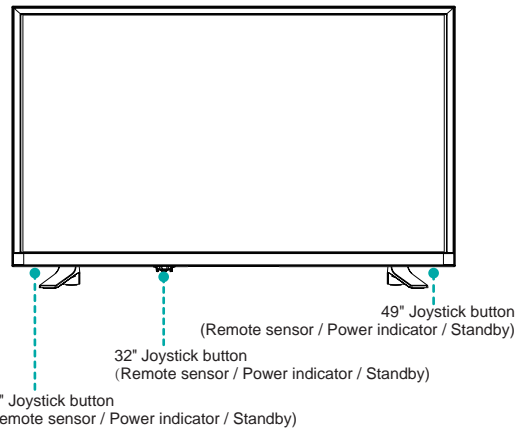
Follow instructions provided with the Wall mount bracket.

NOTE

The diameter and length of the screws differ depending on the wall mount bracket model.

TV Front

32" / 43" / 49"



Item	Description
Remote sensor	Receive remote signals from the remote control. Do not put anything near the sensor, as its function may be affected.
Power indicator	The light is red in standby mode.
Standby / Source	Press the joystick button to power on the TV. Press the joystick button twice to power off the TV. / Press the joystick button to call up the menu and then select among the different input signal sources.
VOL + / -	Toggle the joystick button right and left to adjust the volume.
CH + / -	Toggle the joystick button forward and backward to control the channel.

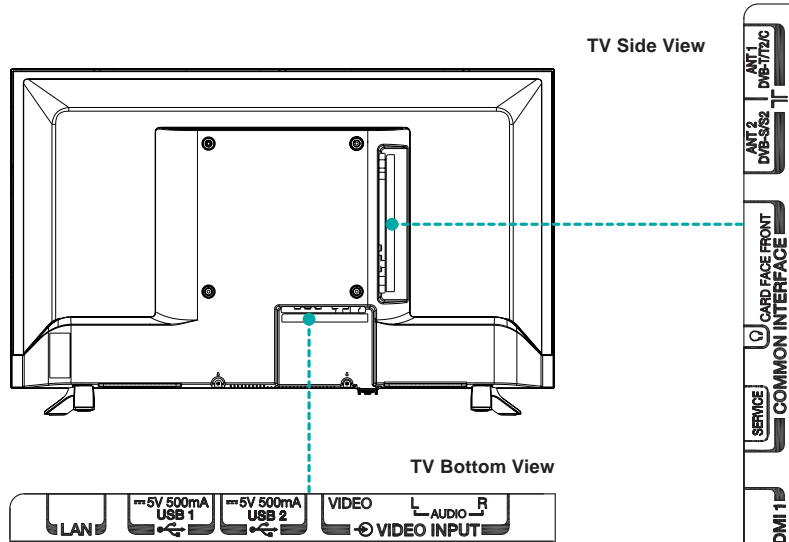
NOTE

Powering on the TV requires several seconds to load programmes. Do not rapidly turn the TV off as it may cause the TV work abnormally.

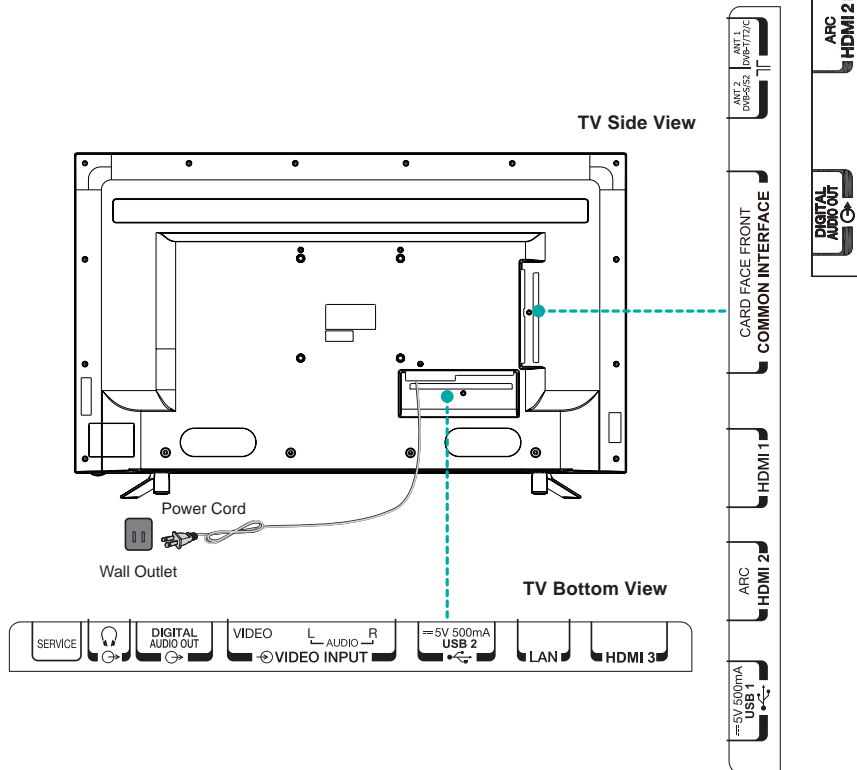
Getting started

TV Rear

32" / 43"



49"















NOTES

- ANT2 Jack supports power supply for satellite antenna (13/18V, 0.5A max.)
- Check the jacks for position and type before making any connections. Loose connections can result in image or color problems. Make sure that all connections are tight and secure.
- Not all A/V devices have the ability to connect to a TV, please refer to the user's manual of your A/V device for compatibility and connections procedure.
- Before connecting external equipment, remove the mains plug from the wall socket. Otherwise, it may cause electric shock.

Getting started

Terminals

ANT 1 DVB-T/T2/C			Connect an outdoor VHF/UHF antenna.
ANT 2 DVB-S/S2			Connect an outdoor Satellite antenna.
HDMI			Connect a HDMI High Definition Multimedia cable from external equipment.
VIDEO INPUT	VIDEO		Connect a composite video cable and left-right audio cables from an external AV device. The VIDEO can be used to connect a range of equipment, including video recorders, camcorders, decoders, satellite receivers, DVD players, or games consoles.
	L		
	R		
COMMON INTERFACE			Insert the CI+ module for watching scrambled services like pay-tv channels or some HD channels.
USB			Connect a USB device for browsing photos, music and movies.
DIGITAL AUDIO OUT			Connect an optical cable from an external digital audio system.
LAN			Connect an Ethernet cable to access a network or the Internet.
HEADPHONE			Connect headphones to listen to the sound coming from the TV. Note: Excessive sound pressure from earphones can cause hearing loss.
SERVICE			This port is not available for you to connect an external device. It can only be used by our factory for testing purposes.

NOTE

- The location and names of the terminals on the TV may vary according to TV model, and not all terminals available on all models.

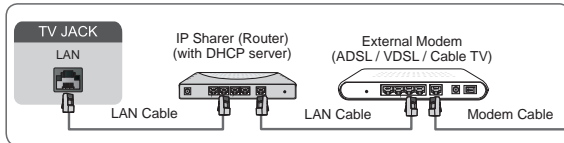
Getting started

Ethernet

Connecting to the Internet

NOTES

- You get access to the Internet through your TV.
- We recommend to use a modem or router that supports Dynamic Host Configuration Protocol(DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS, so you don't have to enter them manually. Most home networks already have DHCP.



Connecting to a Wired (Ethernet) Network

MENU > Settings > Network > Network Configuration

You set the TV network by selecting Configuration and press **OK** button to enter the submenu.

Connection Type

Choose a wired network connection to access the Internet.

Ethernet

Display the network status.

IP Settings

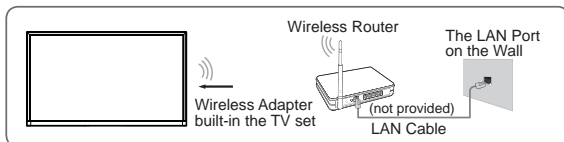
Configure the IP setting for your network connection.

Wireless

Connecting to the Internet

NOTES

- You get access to the Internet through your TV.
- Connect to an available wireless network.
- Make sure that you have the wireless router's SSID and password before attempting to connect.



Connecting to a Wireless Network

MENU > Settings > Network > Network Configuration

You set the TV network by selecting Configuration and press **OK** button to enter the submenu.

Connection Type

Choose a wireless network connection to access the Internet.

Advanced Settings

Configure the advanced wireless network settings for the TV.

Add

You can add wireless network.

Refresh

Refresh wireless network.

NOTES

- If no wireless router is found, select **Add** and enter the network name in the SSID.
- If no wireless router is found, select **Refresh**.

Using HDMI & CEC Function

Use the TV's remote control to control external devices that are connected to the TV by an HDMI cable. The external devices need to support HDMI & CEC Function (HDMI-CEC).

Connecting an external device through HDMI & CEC Function

MENU > Settings > System > HDMI & CEC Functions > CEC Control

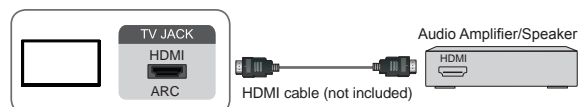
- Set **CEC Control** to On.
- Connect an HDMI-CEC-compliant device to the TV.
- Turn on the connected external device. The device is automatically connected to the TV. After connection is finished, you can access the menu of the connected device on your TV screen using your TV remote and control the device.

NOTES

- HDMI cables must be used to connect HDMI CEC-compatible devices to your TV.
- The HDMI CEC feature of the connected device must be turned on.
- If you connect an HDMI device that is not HDMI CEC-compatible, all the HDMI-CEC control features do not work.
- Depending on the connected HDMI device, the HDMI-CEC Control feature may not work.
- The HDMI CEC feature are supported One Touch Play, Routing Control, System Standby, Device OSD Name Transfer, Remote Control Pass Through, Give Device Power Status, System Audio Control.

Connecting with an HDMI(ARC) Cable

Connect an HDMI cable from an external digital audio system. ARC enables the TV to directly output the digital sound through an HDMI cable. Please note that it works only when the TV is connected to the audio receiver that supports the ARC (Audio Return Channel) function.



NOTE

- When this port is used as the ARC function, it can be used as signal input when DVD is connected to amplifier and the amplifier is connected to the TV at the same time.(Some amplifiers may not support series connection.)

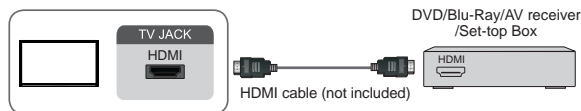
Getting started

Connecting with an HDMI Cable

Connect an HDMI cable from an external A/V equipment.

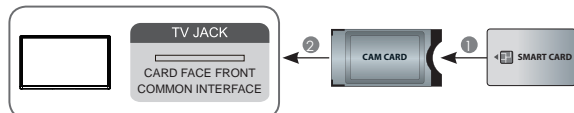
Some devices such as DVD player require HDMI signal to be set to output in the device's settings. Please consult your device user manual for instructions.

Please note that the HDMI connector provides both video and audio signals, it's not necessary to connect an audio cable.



Common Interface

Insert the CI+ module for watching scrambled services like pay-tv channels or some HD channels.

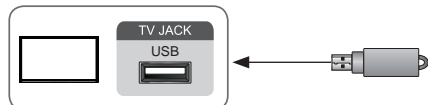


NOTES

- Before you insert/remove the CI+ module, ensure that the TV is switched off. Then insert the CI card into the CI+ module in accordance with the Service Provider's instructions.
- Do not repeatedly insert or remove the Common Access Module as this may damage the interface and cause a malfunction.
- You must obtain a CI+ module and card from the service provider of the channels you want to watch.
- Insert the CI+ module with the SmartCard in the direction marked on the module and SmartCard.
- CI+ is not supported in some countries and regions; check with your authorized dealer.

Connecting with a USB Cable

Connect the USB devices such as hard drives, USB sticks and digital cameras for browsing photos, listening to music.



- Support the U disk 4G, 8G, 16G, 32G, 64G, 128G and other common market size, 8T hard drive is currently supported.
- Support format: NTFS, FAT32, EXT4.

Using the USB storage device function

The USB storage device function can be used to record and view digital broadcast programmes.

Read the precautions below before recording or viewing programmes using the USB storage device function.

NOTES

- Be sure to select the correct country/region for use.

Use of the recording function may not be possible depending on the selected country/region.

Use with incorrect settings may violate certain laws or other regulations, and may result in criminal punishment.

In such cases, TOSHIBA CORPORATION and the Toshiba Group shall bear no responsibility whatsoever.

- Recorded programmes saved on the USB storage device can only be viewed on this TV. They cannot be viewed when connected to another TV(including the same model of TV), a PC, or other device.
- You cannot watch one channel while recording another.
- If the recording time to the USB storage device is too short, no data may be saved.
- You cannot record video input signals on the USB device.
- Not all types of broadcast may be recordable.
- After programing the TV to record digital broadcasting, do not disconnect the power plug before recording starts.
- Should video or audio recording fail due to malfunction of the TV or poor reception, no compensation shall be paid.

Remote Control

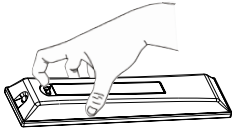
Buttons on the Remote Control



- ① POWER: Switch the TV on or into standby mode
- ② ↻: Select input source
- ③ P.MODE: Select picture mode
S.MODE: Select sound mode
i+: Display the current programmes information
- ④ APPS: Fast access to all applications
MEDIA: Enter the media
TV: Enter the Live TV
- ⑤ 0-9: Direct channel selection or numbers input
- ⑥ MENU: Display the Quick setup menu
- ⑦ TEXT: Turn on/off the teletext function
- ⑧ LIST: Display the channel list on the screen
- ⑨ : Mute or restore the TV sound
- ⑩ : Adjust the volume
- ⑪ P ▲ / ▼: Switch channel
- ⑫ HOME: Enter the Home
- ⑬ EXIT: Exit the menu
- ⑭ BACK: Return to previous menu
- ⑮ OK: Confirm the selection in the OSD menus
- ⑯ ▲ / ▼ / ◀ / ▶: Allows you to navigate the OSD menus and adjust the system settings to your preference
- ⑰ SUBTITLE: Press to display the Subtitle Language menu
- ⑱ GUIDE: Display the Electronic Programmes Guide (DTV mode)
- ⑲ Red/Green/Yellow/Blue button: Color keys for direct selection of options
- ⑳ ◀◀ / ▶▶ / ◀◀◀ / ▶▶▶ / ◀◀◀◀ / ▶▶▶▶: Media content control function buttons
- ㉑ NETFLIX: Press to launch NETFLIX instant video streaming
YouTube: Enter the YouTube app

Remote Control

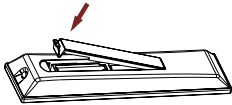
Installing Batteries in the Remote Control



Press the release button on the back of the remote control to remove the battery compartment cover.



Insert two AAA size batteries. Make sure to match the (+) and (-) ends of the batteries with the (+) and (-) ends indicated in the battery compartment.



Replace the battery compartment cover.

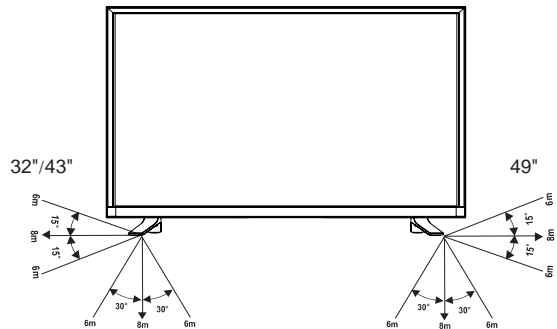
NOTES

- Product image is only for reference, actual product may vary in appearance.

Handling the Batteries

- Incorrect use of batteries may cause corrosion or battery leakage, which could cause fire, personal injury or damage to property.
- Only use the battery type indicated in this manual.
- Do not mix old and new batteries or different types of batteries.
- Do not dispose of used batteries as domestic waste. Dispose of them in accordance with local regulations.
- Battery chemicals can cause a rash. If the batteries leak, clean the battery compartment with a cloth. If chemicals touch your skin, wash immediately.
- If you do not intend to use the remote control for a long time, remove the batteries.
- Remove depleted batteries immediately to prevent battery acid from leaking into the battery compartment.

Remote Control Operation Range



General Operation

Turning the TV on for the First Time

1. Connect the mains cable to the mains socket after you have completed all the connections.
2. The first time you turn the TV on, it will go straight into the Installation Guide.
3. Press the **▲** / **▼** / **◀** / **▶** button to navigate the menu and change the settings. Press the **OK** button to confirm.

Language

Select your desired language to be displayed on the menu.

Location

Select the location where you will operate the TV.

Time Zone

Select the local time zone according to your country/region.

Disclaimer

Your use of this device and all related services is governed by the End User License Agreement and relative policies. Please review these documents carefully and make sure that you have read and agree to the provisions of the End User License Agreement.

Network Connection

If your TV does not automatically detect an Ethernet connection, then use a wireless network, select your network from the list that displays, also you can add a hidden network. When you're done, move to the next screen.

Success

Congratulations, you have finished the Wizard setup. Press "Finish" to use your TV, for retailers press "Store Mode".

Channel Scan

MENU > Settings > Channel > Auto Scan

Auto Scan

Automatically scan for channels to view programmes from your TV source.

MENU > Settings > Channel > Advanced Settings > Manual Scan

DTV Manual Scan

Manual scan TV programmes in digital signals.

When the DTV Manual Scan screen appears, press **◀** / **▶** button to select Antenna, Cable or Satellite and then press **Start** to commence the search of that channel. When the signal has been tuned, signal strength will be displayed on the screen.

ATV Manual Scan

Manual scan TV programmes in analog signals.

Channel Edit

MENU > Settings > Channel > Channel Edit

Manually edit the channel list order to your preference.

Edit the channels

- Press **OK** button on the selected channel then a checkbox will appear. You can select more channels at the same time to move or delete them.
- Delete: Press **▶** button to delete the selected channel.
- Restore: Press **[RED]** button to enter the list of deleted channels. Press **◀** button to restore the deleted channel.
- Move: Press **◀** button to move the selected channel.

NOTE

Moving the channels could be restricted by the operator. If you want to be able to move channels, we recommend not to choose an operator during channel scan and LCN should be set to Off.

- Filter: Press **[YELLOW]** button, the filter screen will pop up. Press **OK** button to select Options, the channel list can be updated.

Edit the favorite channels

You can add favorite channels or move/remove favorite channels.

Export to USB

Allows you to export the current channel list to a USB storage device.

Import from USB

Allows you to import a previously exported channel list via a USB storage device.

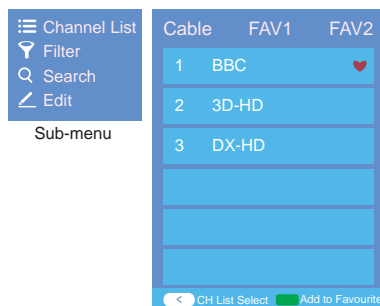
Channel List

Display the channel list

In Live TV, press **OK** or **LIST** button on the remote control to display the Channel List menu.

Enter the sub-menu of channel list

OK or **LIST** > **▶**



Channel list menu

General Operation

Introduction of the sub-menu

1. Channel List

OK or **LIST** > **◀** > Channel List

- **All**
Displays the channels that have been automatically searched.
- **Favourite List**
Displays favourites lists 1 to 4. (Max 4 fav lists can be added)
- **⊕ Add fav list**
Add an additional favorite list.

2. Filter

Select channels by content, child lock, scrambled.

3. Search

Quick access to channels.

4. Edit

Edit the channel list.

Favorite

Viewing your 'Favorites' list

Press **OK** or **LIST** button to call out the Channel list, the channel list appears on the right side of the screen, a heart-shaped icon will appear next to your favorite channel.

Edit the favorite list

There are 2 ways to enter the edit menu:

OK or **LIST** > **◀** > Edit > FAV1-FAV4

or

MENU > Settings > Channel > Channel Edit > FAV1-FAV4

The Edit Favorites screen appears.

- **Adding channels to a Favorites list**
Select the **⊕ Add channels** to add the selected channel to the favorite list.
- **Moving channels from a favorites list**
Select channels in a favorites list, press **◀** button to move the selected channel.
- **Deleting channels from Favorites list**
Select channels in a favorites list, press **▶** button to remove the selected channel.

NOTES

- These steps should be operated under TV inputs.
- Before you edit the fav lists, complete channel scan first.
- You can add channels from various reception types to the FAV list.

Guide



It provides convenience to check TV programmes that will be available in the next 7 days. The information displayed by the Guide is made available by the commercial television networks for digital channels only. The Guide also provides a simple way to record your favorite programmes and a reminder function which can switch channel automatically at scheduled time so that you do not miss programmes of interest. (The availability and amount of programme information will vary, depending on the particular broadcaster).

- Press **GUIDE** button on the remote control to display channel information on programme guide list.
- **Watch**
When a current programme is selected, press **OK** button and then a dialog box pops up, select Watch to watch it in full screen mode.
- **PVR/Reminder**
Press **▲** / **▼** button to select the channels. Press **◀** / **▶** button to select programme based on the time schedule.
Press **OK** button on the remote control to select PVR or Reminder.

NOTES

- PVR/Reminder in the Guide is only available for programmes that haven't been aired yet.
- A storage device (space should be no less than 2G, transfer rate should be no less than 5MB/s) must be attached to the television for recording purposes.
- The TV will record the programme even in standby mode.
- The PVR function is only applicable in certain models.
- **Page Up/Down**
Press **PA** / **PV** button to move programme listing page up/down.
- **Schedule**
Press **[RED]** button to view a list of scheduled reminders and recordings.
- **Programme Colour**
Press **[GREEN]** button on the remote control to choose colours to indicate different genres in the Guide for quick and easy viewing. (This function is only applicable in certain countries/regions.)
- **24h -**
Press **[YELLOW]** button to select the yesterday programmes. (This function is only applicable in certain countries/regions.)
- **24h +**
Press **[BLUE]** button to select the next day programmes.

PVR


The PVR function allows you to easily record digital television content for later viewing. The function is only available in DTV source. To use PVR, you must connect a USB device for recording. The format of the storage disk should be NTFS, FAT32, EXT4. The PVR will not function if a data storage device has not been connected.

Schedule Recording

Press **GUIDE** button, Select the programme to be played, press **OK** button to set the appointment time and period, the reservation is successful. Press **[RED]** button to view the schedule recording. In the schedule recording list, you can readjust the reservation information that has been set.

General Operation

● Instant Recording

1. Press  button to select PVR.
2. Select the partition, and the USB device speed will be tested(appear when using for the first time).
3. You can choose to Manual stop or automatically match the programme time.

● Standby record

If you press the power button during recording, TV will go into standby mode but the recording process is still going on. If you press power button again and wake up the TV, recording process will not be affected. After recording, the recorded file will be automatically saved to the disk.

☒ NOTES

- The storage space of your USB device should be no less than 2G (for 15 minutes high definition video).
- If the transfer rate of your hard disk is too slow, a pop-up notice will appear, in this case, you can try another one.
- The PVR function doesn't support analogue channels.
- The schedule recording function is not available while you are watching a programme that is currently being broadcast.
- Some broadcasters may restrict to record the programme.
- During the recording progress, channels locked with Channel Lock(password needed) are disabled to watch.
- The PVR function is disabled for scrambled channels(CI module needed).
- The PVR function is only available on certain models in some country/region.

Recording List

Accessing the recording list

See the list of recorded programmes and scheduled recordings.

● To enter the recording list :


 > Recording List

● Managing the recording list


 > Recording List > Recorded

You can watch or delete recorded programmes.

● Delete the recorded programme

Select **Edit** and then select recorded programme in recording list, press  button to remove the recorded programme.

● Watch


Select recorded programme in recording list, press  button to watch the recorded programme.

Managing the schedule recording list


 > Recording List > Scheduled

You can change scheduled recording information or cancel scheduled recordings.

● Delete the scheduled programme

Select **Edit** and then select scheduled programme in schedule list, press  button to remove the scheduled programme.

● Edit scheduled programme




Select scheduled programme in schedule list, press  button to adjust the scheduled programme.

☒ NOTE

- The Recording List function is only applicable in certain models.

Timeshift

This option allows you to pause and rewind live TV. This function operates by recording temporarily to a storage device. Please ensure your storage device is connected and there is enough free disk space. Otherwise the recording will not commence.

Press  button on the remote control to select T.Shift and then the menu will appear, press  button to pause the live broadcast and press  button to play. Press  button to watch reverse and press  button to watch advance playback rapidly. Press  button to exit the function and watch the current broadcast.

☒ NOTES

- The T.Shift function doesn't support analogue channels.
- The storage space of the USB device should be no less than 1G.
- The Timeshift function is only applicable in certain models.

General Operation

Picture and Sound

Adjusting the Picture Quality

Adjust current picture mode to apply to all sources or just current source.

Choosing a picture mode

MENU > Settings > Picture > Picture Mode

You can select the Picture Mode that provides the best viewing experience.

- **Standard**
Best suited for watching normal content e.g. News, Drama or Documentary.
- **Dynamic**
Best suited for the content that requires vivid picture quality.
- **Cinema day**
Best suited for watching movies in a bright environment.
- **Cinema night**
Best suited for watching movies with dark environment.

Changing the picture size

MENU > Settings > Picture > Aspect Ratio

You can change the size of the picture displayed on the TV screen.

- **Automatic**
Automatically switch Aspect Ratio between 16:9 and 4:3 based on the signal information.
- **16:9**
Best suited for 16:9 Widescreen content. This will also stretch 4:3 content to Widescreen.
- **4:3**
Best suited for 4:3 content.
- **Panoramic**
Provides a full screen image by stretching the edges whilst leaving the middle untouched.
- **Movie Zoom**
Provides a full screen image by zooming in on the movie.
- **Direct**
Point to point display also known as 1:1 Pixel Mapping.

NOTES

- Using the special functions to change the size of the displayed image(e.g. changing the height/width ratio) for the purpose of public display or commercial gain may infringe on copyright laws.
- If the aspect ratio of the selected format is different from the one of the TV transmission or video programme, it can cause a difference in vision.
- When using PC connected via HDMI terminal, the moving image quality may be deteriorated.

Configuring advanced picture settings

MENU > Settings > Picture > Picture Mode Settings

You can select the Picture Mode that provides the best viewing experience.

- **Backlight**
Set the overall brightness of the screen.
- **Brightness**
Adjust the Brightness level to generate lighter or darker images.
- **Contrast**
Adjust the Contrast level to increase or decrease how bright images appear.
- **Colour Saturation**
Adjust the colour intensity of the picture for a more vibrant image.
- **Sharpness**
Adjust how sharp or soft edges of images appear.
- **Adaptive Contrast**
Automatically darken dark areas and lighten light areas of images to see more details.
- **Noise Reduction**
Improve how clear the picture appears by reducing noise.
- **MPEG Noise Reduction**
Reduces MPEG block noise and provides clearer edge transitions.
- **Colour Temperature**
Adjust how warm(red) or cool(blue) the white areas of an image appears.
- **Colour Tuner**
Adjust the Hue, Saturation and Brightness of colour settings.
- **White Balance**
Adjust the intensity of red, green and blue lights to view the true colours of all images in the picture.
- **Black Level**
Adjust the HDMI signal range to be more suitable for the content.
- **RGB Only Mode**
View images based on default settings or choose the colour red, blue or green.
- **Overscan**
Change the video size settings to slightly crop the edges of the displayed image.
(This function is only applicable in some countries/regions)

Adjusting the Sound Quality

Adjust current sound mode to apply to all sources or just current source.

Choosing a sound mode

MENU > Settings > Sound > Sound Mode

You can select a favourite sound mode suitable for the content type or the listening environment.

- **Standard**
In Standard mode, the TV delivers a flat frequency response, which preserves the natural characteristics of the original sound.
- **Theatre**
Theatre mode increases the surround sound effect and provides a more prominent subwoofer response.

General Operation

- **Music**
In Music mode low and high frequencies are emphasized to enhance musical instrument reproduction.
- **Speech**
In Speech mode low and high frequencies are attenuated to improve the reproduction and clarity of the human voice.
- **Late Night**
In Late Night mode, the TV will improve the reproduction and clarity of the human voice with a low volume level.

Configuring advanced sound settings

MENU > Settings > Sound > Sound Mode Settings

You can personalize the sound quality by adjusting the following settings.

- **TotalSonics™**
Optimizes overall sound quality by increasing bass, widening the sound field and provides a clear, natural dialog.
- **TotalVolume™**
Maintains consistent loudness levels from wide dynamic range programmes, loud commercials, and channel or input changes.
- **TotalSurround™**
Provides surround sound experience by utilizing psychoacoustic processing to place sounds beside, behind and above the viewer. For best results use with Total Sonics.
- **Equalizer**
Boost the volume at different frequencies.
- **Wall Mount Setup**
Automatically optimize the sound based on the position of the TV.

System and Support

Using Set Time

MENU > Settings > System > Time

Set the current time based on your location.

- **Time Format**
Set the time to display in a 12 or 24-hour format.
- **Date/Time**
Set the Date and Time. You can set the date and time to automatically sync with Internet/broadcast or manual setup by yourself.
- **Time Zone**
Select your time zone.
- **Daylight Savings**
Select whether to apply Daylight Savings Time to the TV.

Using the Timers

MENU > Settings > System > Timer Settings

Adjust the timer settings to suit your preference.

- **Sleep Timer**
Set the sleep timer to automatically turn the TV Off within a specified time: Off, 15 Minutes, 30 Minutes, 60 Minutes, 90 Minutes, 120 Minutes or User define.
- **Power On Timer**
Set the clock for the time you want the TV to turn on automatically. You can set the time only once or set the time in specified date by weekly.
- **Power Off Timer**
Set the clock for the time you want the TV to turn off automatically. You can set the time only once or set the time in specified date by weekly.
- **Menu Timeout**
Set the amount of time that you would like for the menu to display: Off, 10s, 20s, 30s, 60s.
- **Auto Sleep**
Set the amount of time that you would like for TV auto power off without any activity: Off, 3H, 4H.(This function is only applicable in some countries/regions.)

Notifications

MENU > Settings > System > Advanced Settings > Notifications

Allow pop-up notifications to appear for useful information and events that occur with your TV, including: Advertising, New Arrivals, Warnings And Legal Statements and System message. You can enable / disable each of these notifications.

Using Upgrade

MENU > Settings > Support > System Update

Set your TV to receive the latest firmware.

- **Check Firmware Upgrade**
Check to ensure that your TV has received the latest firmware.

NOTE

Please ensure your TV is connected to the Internet.

- **Upgrade from USB**
Upgrade TV software from USB device.

NOTES

- Please ensure the USB flash drive insert to USB2.0 port of the TV.
- The updating files must be available in root directory.
- The format of the USB must be FAT32 and the partition table type must be MBR.

Smart Functions

Screen Mirroring

Mirror content from your Android device to the TV.

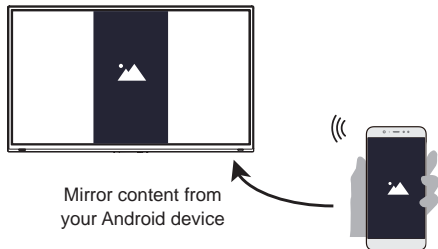
HOME > Inputs > Screen Mirroring

1. Turn on the casting function of your Android device.
2. Find the TV name in the searching list of your device and select it.

Wait for the connection progress to complete and the content on your device will be displayed on the TV.

NOTE

Some Android devices may not support casting.



Anyview Stream

Share video, music or pictures from your Android/ios/PC device to the TV screen.

MENU > Settings > System > Application Settings > Anyview Stream

1. Turn on the contents sharing function of your Android/ios/PC device.
2. Find the TV name in the searching list of your device and select it.

Wait for the connection progress to complete and select content you want to share.

NOTES

- TV and your Android/ios/PC device need to connect to the same network.
- Some devices may not support contents sharing function. If your device doesn't support contents sharing, you can download an app that supports the function.



Getting Familiar with the Home Screen


The simple design of the Home screen menu makes it easy to navigate.

Enter the HOME screen

Press **HOME** button and use the arrows on the D-pad to make your selection.

Indicators and Icons on the top of the Home screen

You can always view the current time at the top right corner of the Home screen.

If your TV is connected to the Internet through a wireless connection, then an icon  will display at the top right corner of the screen. This location makes it very convenient for you to determine if you still have Internet connectivity when you use the TV.

Names of sections that appear on the Home screen

The Home screen displays the following section names:

- **Featured**
- **Apps**
- **Favorites**
- **Media**
- **Inputs**

Playing Media Contents

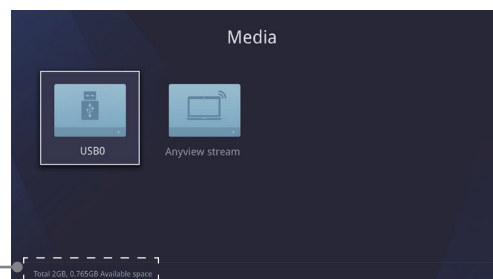
HOME > Media

Play multimedia contents stored on your TV, smartphones, USB devices, cameras, PCs, etc.

By default, there is **Anyview Stream** displayed on the Media screen. If your mobile device is connected to the TV, its name also appears on the Media screen.

NOTE

For more information about Anyview Stream, refer to its detailed introduction.



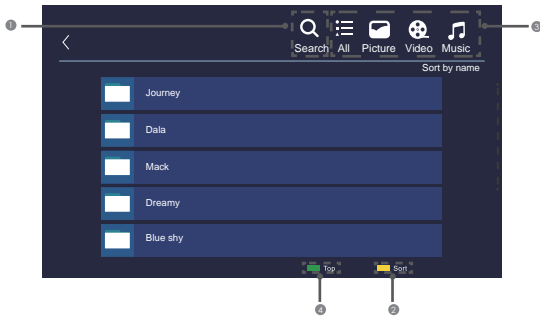
- 1 Display the total memory and available space of connected device.

You must obtain any required permission from copyright owners to download or use copyrighted content. TOSHIBA cannot and does not grant such permission.

Smart Functions

HOME > Media > connected device

Select the content you want to play on the screen, like pictures, videos and music.



- 1 Input the content name you want to play.
- 2 Arrange the content list by **Name, Date modified**.
- 3 Filter the content list by **All, Picture, Video, Music**.
- 4 Back to the top.

NOTE

- For more information about connection to PC/mobile device, refer to the detailed introduction of each part.

Troubleshooting

Picture Problem

When the TV has trouble with the picture, these steps may help resolve the problem.

The Problem	Possible Solutions
No picture, or black and white picture.	<ul style="list-style-type: none"> Unplug TV from AC outlet and re-plug after 60 seconds. Check that the Colour Saturation is set to 50 or higher. Try different TV channels.
The picture is distorted.	<ul style="list-style-type: none"> The compression of video content may cause picture distortions, especially in fast moving pictures from sports programmes and action movies. If the signal reception is weak or poor, screen distortion may be visible but it is not a malfunction. Mobile phones used close to the TV (within 1 m) may cause noise on analogue and digital channels.

NOTES

- If the test picture does not appear or there is noise or distortion, the TV may have a problem. Contact the service company in your country/region.
- If the test picture is displayed properly, there may be a problem with an external device. Please check the connections.
- If the problem persists, check the signal strength or refer to the external device's user manual.

Sound Problem

When the TV has difficulties with sound, these steps may help resolve the problem.

The Problem	Possible Solutions
There is no sound or the sound is too low at maximum volume.	<ul style="list-style-type: none"> Check the volume control of the device (cable or satellite box, DVD, Blu-ray, etc.) connected to your TV.
Picture is normal, but no sound.	<ul style="list-style-type: none"> Check the volume settings. Check if 'Mute' mode is set to on.
The speakers are making an odd sound.	<ul style="list-style-type: none"> Make sure that the audio cable is connected to the correct audio output connector on the external device. For antenna or cable connections, check the signal information. A low signal level may cause sound distortions.

Picture and Sound Problem

When the TV has difficulties with sound and picture, these steps may help resolve the problem.

The Problem	Possible Solutions
No sound and picture.	<ul style="list-style-type: none"> Check if the power cord is plugged into a powered AC outlet. Press the U button in the remote control to activate the unit from Standby. Check to see if the LED light is on or not. If it is, then the TV is receiving power.
I have connected an external source to my TV but I get no picture and/or sound.	<ul style="list-style-type: none"> Check the correct connection on the external source and the input connection on the TV. Make sure you have made the correct selection for the input mode for the incoming signal.
Sound and picture distorted or appear wavy.	<ul style="list-style-type: none"> Some electrical appliances may affect TV set. If you turn off the appliance and the interference goes away, then move it further away from TV. Insert the power plug of the TV set into another power outlet.
Sound and picture is blurry or cuts out momentarily.	<ul style="list-style-type: none"> If you use an external antenna, check the direction, position and connection of the antenna. Adjust the direction of your antenna or reset or fine tune the channel.

Internet Problem

When the TV has difficulties connecting to the Internet, these steps may help resolve the problem.

The Problem	Possible Solutions
The TV cannot connect to your network or apps.	<p>Make sure the TV has a network connection.</p> <ul style="list-style-type: none"> Run Connection Test (MENU > Settings > Network > Connection Test) Contact your Internet service provider.
The wireless network connection failed.	<ul style="list-style-type: none"> Make sure your wireless modem/router is on and connected to the Internet.
The wireless network signal is too weak.	<ul style="list-style-type: none"> Position your wireless router, modem router, or access point in a central location. Avoid putting it in a corner.

Troubleshooting

Recording/Timeshift Function Isn't Working

When Timeshift or Schedule recording aren't working, these steps may help resolve the problem.

The Problem	Possible Solutions
Schedule Recording cannot be used.	<ul style="list-style-type: none">· Check if there is a USB device connected to the TV.· Recording will automatically stop if the signal becomes too weak.· Check the free space on the USB device. The function will not work if there isn't enough storage space on the USB device.

NOTE

- The Recording/Timeshift functions are only applicable in certain models.

My File Won't Play

When files aren't playing, this may help resolve the problem.

The Problem	Possible Solutions
Some files can't be played.	<ul style="list-style-type: none">· This problem may occur with high-bitrate files. Most files can be played back, but you might experience problems with high-bitrate files.

Other Issues

Use these procedures to resolve other issues that may occur.

The Problem	Possible Solutions
The TV is hot.	<ul style="list-style-type: none">· Watching TV for an extended period of time causes the panel to generate heat. The heat from the panel is dissipated through internal vents running along the top of the TV. However, after extended use, you may feel hot when touch it. This heat, however, is not a defect and does not affect the TV's functionality.
The TV smells of plastic.	<ul style="list-style-type: none">· This smell is normal and will dissipate over time.
The plastic cabinet makes a "clicking" type of sound.	<ul style="list-style-type: none">· The 'click' sound can be caused when the temperature of the television changes. This change causes the television cabinet to expand or contract, which makes the sound. This is normal and the TV is OK.

Specifications

Features, appearance and specifications are subject to change without notice.

Item		32"	43"	49"
Dimension (W x H x D)	Without Stand	734 x 440 x 76 mm	970 x 573 x 71 mm	1106 x 651 x 87 mm
	With Stand	734 x 465 x 171 mm	970 x 609 x 208 mm	1106 x 693 x 258 mm
Weight	Without Stand	4.3 kg	7.9 kg	12.3 kg
	With Stand	4.4 kg	8.2 kg	12.6 kg
Active Screen Size (Diagonal)		32 inches	43 inches	49 inches
Screen resolution		1366 x 768	1920 x 1080	1920 x 1080
Audio power		7.5W + 7.5W	8W + 8W	8W + 8W
Power consumption		60W	75W	110W
Power supply		100V-240V ~ 50/60Hz	100V-240V ~ 50/60Hz	100V-240V ~ 50/60Hz
Standby Power		0.5W		
Receiving systems	Analog	PAL-D/K, B/G, I, SECAM-D/K, B/G, L/L'		
	Digital	DVB-T/T2, DVB-C, DVB-S/S2		
Environmental conditions		Temperature: 5°C - 35°C Humidity: 20% - 80% RH Atmospheric pressure: 86 kPa - 106 kPa		
HDMI Input		RGB / 60 Hz (640x480, 800x600, 1024x768) YUV / 60 Hz (480 I, 480 P, 720 P, 1080 I, 1080 P) YUV / 50Hz (576 I, 720 P, 1080 I, 1080 P)		
Wireless LAN Module specifications	Model	ZDWFM2402		
	Frequency Range	2.400~2.4835GHz		
	Output Power (Max.)	2.400~2.4835GHz 18.5dBm		

Media Format List

Video:

Number	Container	Video Codec(file type)	File Extension Name	Sampling rate SPEC	Bit Rate	Profile	Remark
1	MPG	Mpeg1	.dat .mpg.mpeg	1080P @ 30fps	20Mbps	Main Profile	N Max Resolution: 720x576
2		Mpeg2	.dat .mpg.mpeg	1080P @ 30fps	20Mbps	Main Profile	Y
3	MPEG	Mpeg1	.dat .mpg.mpeg	1080P @ 30fps	20Mbps	Main Profile	N Max Resolution: 720x576
4		Mpeg2	.dat .mpg.mpeg	1080P @ 30fps	20Mbps	Main Profile	Y
5	MPEG2 -PS	MPEG2	.vob	1080P @ 30fps	20Mbps	MPEG2: MP@HL	Y

Specifications

6	MP4	Mpeg4	.mp4	1080P @ 30fps	20Mbps	Simple Profile and Advanced Simple Profile @Level 5	Y
7		H.264	.mp4	1080P @ 30fps	20Mbps	Main Profile and High Profile@Level 4.0	Y
8		Motin JPEG	.mp4	680X480 @ 30fps	10Mbps		Y
9	MKV	Mpeg1,2,4	.mkv	1080P @ 30fps	20Mbps	MPEG2: MP@HL MPEG4: Simple Profile and Advanced Simple Profile @ Level 5	Y
10		H.264	.mkv	1080P @ 30fps	20Mbps	Main Profile and High Profile@Level 4.0	Y
11		Motin JPEG	.mkv	680X480 @ 30fps	10Mbps		Y
12	AVI	Mpeg2,4	.divx.avi	1080P @ 30fps	20Mbps	MPEG2: MP@HL MPEG4: Simple Profile and Advanced Simple Profile @ Level 5	.avi: Y .divx: not support this container
13		H.264	.divx.avi	1080P @ 30fps	20Mbps	Main Profile and High Profile@Level 4.0	.avi: Y .divx: not support this container
14		Motin JPEG	.divx.avi	680X480 @ 30fps	10Mbps		.avi: Y .divx: not support this container
15	ASF	Mpeg2,4	.asf.wmv	1080P @ 30fps	20Mbps	MPEG2: MP@HL MPEG4: Simple Profile and Advanced Simple Profile @ Level 5	N Mpeg2: not support
16		H.264	.asf.wmv	1080P @ 30fps	20Mbps	Main Profile and High Profile@Level 4.0	Y
17	FLV	H.264	.swf.flv	1080P @ 30fps	20Mbps	Main Profile and High Profile@Level 4.0	Y

Audio:

Number	Container	Audio Codec(file type)	File Extension Name	Bit Rate	Remark
1		MPEG1 Layer2	.MP3	32kbps ~ 448kbps(Bit rate) 32kHz ~ 48kHz(Sampling rate)	N supported bit rate: 8/16/24/32/40/48/56/64/80/96/112/128/144/160/192/224/256/320/384 kbits/s supported sampling frequency: 32k,44.1k,48kHz 16k, 22.05k, 24kHz
2		MPEG1 Layer3	.MP3	32kbps ~ 320kbps(Bit rate) 32kHz ~ 48kHz(Sampling rate)	N supported bit rate: 8/16/24/32/40/48/56/64/80/96/112/128/160/192/224/256/320 kbits/s supported sampling frequency: 32k, 44.1k, 48kHz 16k, 22.05k, 24kHz 8k, 11.025k, 12kHz

Specifications

3		AAC, HEAAC	.m4a.aac	24kbps ~ 384kbps(Bit rate) 8kHz ~ 48kHz(Sampling rate)	N supported bit rate: 16-576 kbits/s supported sampling frequency: AAC:48k/44.1k/32k/24k/22.05k/16k/12k/11.025k/8kHz HEAAC: 48k/44.1k/32k/24k/22.05k/16k
4		WMA	.wma	Bitrate: 128kbps ~ 320kbps Sampling Rate: 8kHz ~ 48kHz	N supported bit rate: 32-192 kbits/s supported sampling frequency: 48k/44.1k/32k/22.05k/16k/11.025k/8kHz
5		WMA Pro	.wma	<768kbps(Bit rate) Sampling Rate: ~ 96kHz	N supported bit rate: 48-384 kbits/s supported sampling frequency: 48k/44.1k/32k/22.05k/16k
6		LPCM	N/A (work with video files only)	Bitrate: 64kbps ~ 1.5Mbps Sampling Rate: 8kHz ~ 48kHz	Y supported bit rate: 64kbps ~ 9.2Mbps supported sampling frequency: 8kHz ~ 192kHz
7		IMA-ADPCM/MS-ADPCM	N/A (work with video files only)	Bitrate: 384kbps Sampling Rate: 8kHz ~ 48kHz	Y supported bit rate: 64kbps ~ 9.2Mbps supported sampling frequency: 8kHz ~ 192kHz

Photo:

Number	Container	File Extension Name	Photo	Resolution	Required DRAM size (Mbytes)	bytes	Remark
1	JPEG	.jpeg	Base-line	15360x8640 (1920X8 1080X8)	3.96	414720	Y Max Size:17000*10000
2			Progressive	1024x768	6.00	6291456	Y Max Size: 4000*4000
3		.jpg	Base-line	15360x8640 (1920X8 1080X8)	3.96	414720	Y Max Size: 17000*10000
4			Progressive	1024x768	6.00	6291456	Y Max Size: 4000*4000
5	PNG	.png	non-interlace	9600x6400	3.66	3840000	N Max Size: 2000*2000
6			interlace	1200x800	3.66	3840000	Y Max Size: 5760*4096
7	BMP	.bmp		9600x6400	3.66	3840000	N Max Size: 5760*4096

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