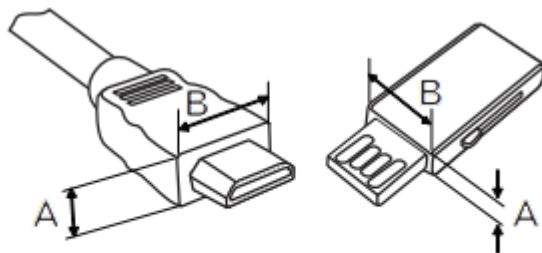


Preparing

- Image shown may differ from your TV.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this TV in the future.
- The items supplied with your product may vary depending upon the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm (0.39 inches) thick and 18 mm (0.7 inches) width.
- Use an extension cable that supports USB 2.0 if the USB cable or USB flash drive does not fit into your TV's USB port.
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- Recommended HDMI cable types
 - High-Speed HDMI®/™ cable
 - High-Speed HDMI®/™ cable with Ethernet



*A ≤ 10 mm (0.39 inches)

*B ≤ 18 mm (0.7 inches)


- Do not use any unapproved items to ensure the safety and lifespan of the product.
- Any damages or injuries by using unapproved items are not covered by the warranty.
- Some models appear to have a thin film on the screen. It is actually part of the screen; do not remove it.

- When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.
- Make sure that the screws are fastened tightly. (If they are not fastened securely enough, the TV may tilt forward after being installed.)
- Do not fasten the screws with excessive force otherwise they may be worn out and become loose.

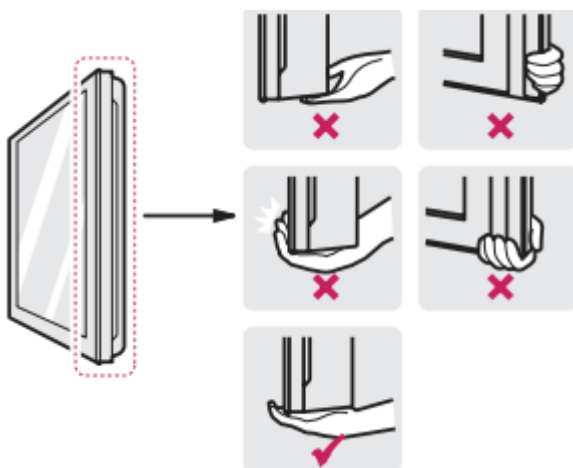
Lifting and Moving the TV

When moving or lifting the TV, read the following to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

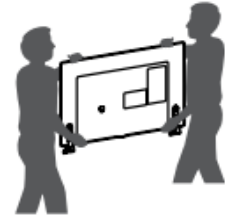
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.

<ul style="list-style-type: none"> • When holding the TV, the screen should face away from you to avoid damage. 	
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- Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grille area.



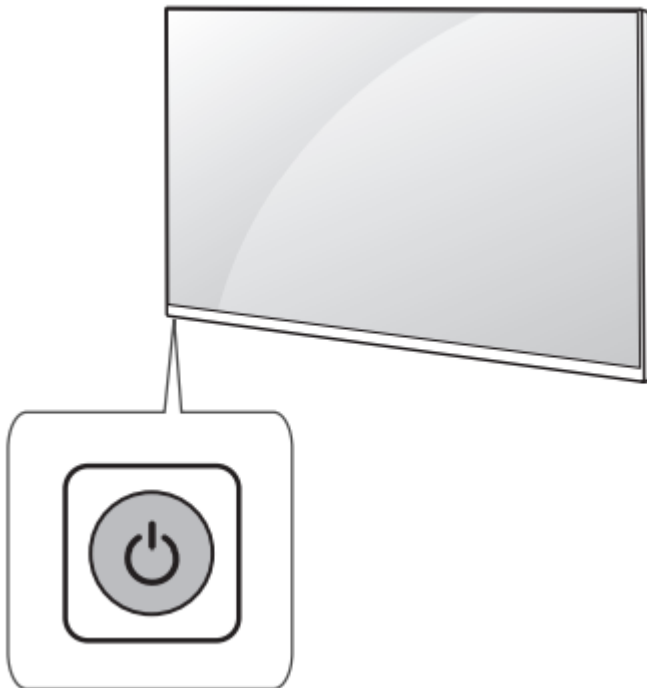
- Use at least two people to move a large TV.
- When transporting the TV by hand, hold the TV as shown in the following illustration.




- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright; never turn the TV on its side or tilt towards the left or right.
- When handling the TV, be careful not to damage the protruding buttons.

Using the Button

You can operate the TV by pressing the button.



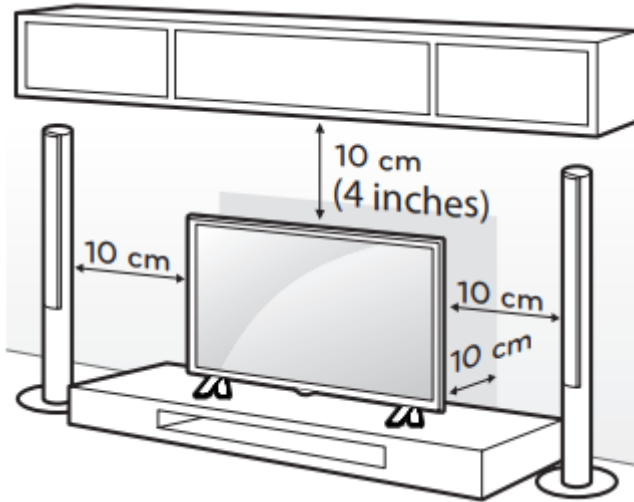
Basic Functions

	Power On / Off (Press)
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Mounting on a Table

1. Lift and tilt the TV into its upright position on a table.

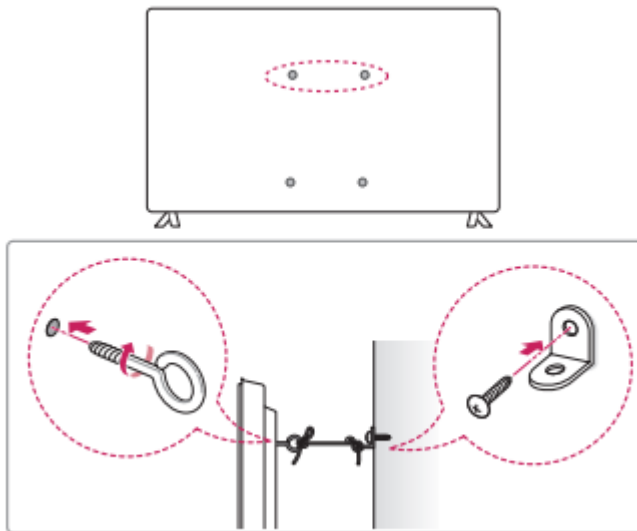
- Leave a 10 cm (4 inches) (minimum) space from the wall for proper ventilation.



2. Connect the power cord to a wall outlet.

Securing the TV to a Wall (optional)

(Depending upon model)



1. Insert and tighten the eye-bolts or TV brackets and bolts on the back of the TV.

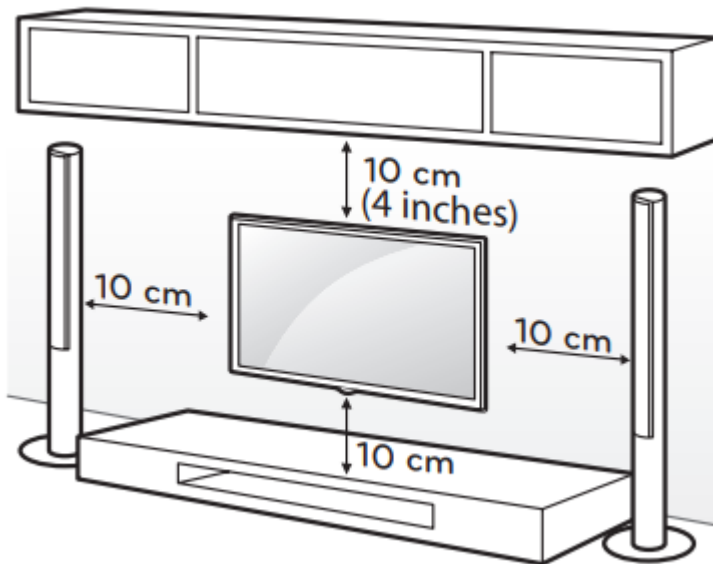
- If there are bolts inserted at the eye-bolts position, remove the bolts first.

2. Mount the wall brackets with the bolts to the wall. Match the location of the wall bracket and the eye-bolts on the rear of the TV.

3. Connect the eye-bolts and wall brackets tightly with a sturdy rope or cable. Make sure to keep the rope parallel to the flat surface.

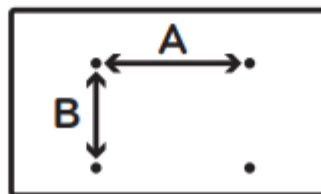
Mounting on a Wall

An optional wall mount can be used with your LG Television. Consult with your local dealer for a wall mount that supports the VESA standard used by your TV model. Carefully attach the wall mount bracket at the rear of the TV. Install the wall mount bracket on a solid wall perpendicular to the floor. If you are attaching the TV to other building materials, please contact qualified personnel to install the wall mount. Detailed instructions will be included with the wall mount. We recommend that you use an LG brand wall mount. The LG wall mount is easy to adjust or to connect the cables. When you do not use LG's wall mount bracket, use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices. If you are using a non-adjustable mount, attach the mount to the wall. Attach the cables to the TV first, then attach the TV to the mount.



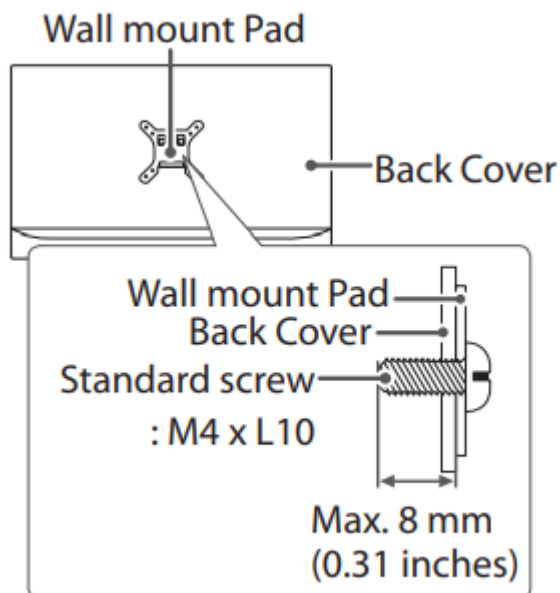
Make sure to use screws and wall mounts that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

Model	32LJ500B	43LJ5000 43LJ500M	28LJ400B 28LJ430B 28MT42DF
VESA (A x B)	100 x 100	200 x 200	100 x 100
Standard screw	M4	M6	M4
Number of screws	4	4	4
Wall mount bracket (optional)	LSW140B	LSW240B MSW240	RW120



Warning

- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
- Screw length from outer surface of back cover should be under 8 mm (0.31 inches). (For 28LJ400B, 28LJ430B, 28MT42DF)



Connections (Notifications)

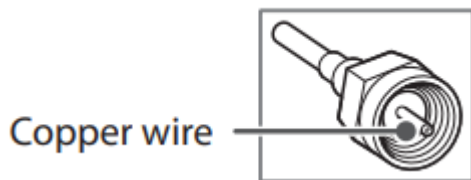
You can connect various external devices to the TV. Supported external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices. For more information on external device's connection, refer to the manual provided with each device.

- If you record a TV program on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information about recording, refer to the manual provided with the connected device
- The external device connections shown may differ slightly from illustrations in a manual.
- Connect external devices to the TV regardless about the order of the TV port.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- Refer to the external equipment's manual for operating instructions.

Connecting to an Antenna or Cable

Connect an antenna, cable, or cable box to watch TV while referring to the following. The illustrations may differ from the actual items and an RF cable is optional.

- Make sure not to bend the copper wire of the RF cable.



- Complete all connections between devices, and then connect the power cord to the power outlet to prevent damage to your TV.
- Use a signal splitter to use 2 TVs or more.
- DTV Audio Supported Codec: MPEG, Dolby Digital, HE-AAC

Other Connections

Connect your TV to external devices. For the best picture and audio quality, connect the external device and the TV with the HDMI cable.

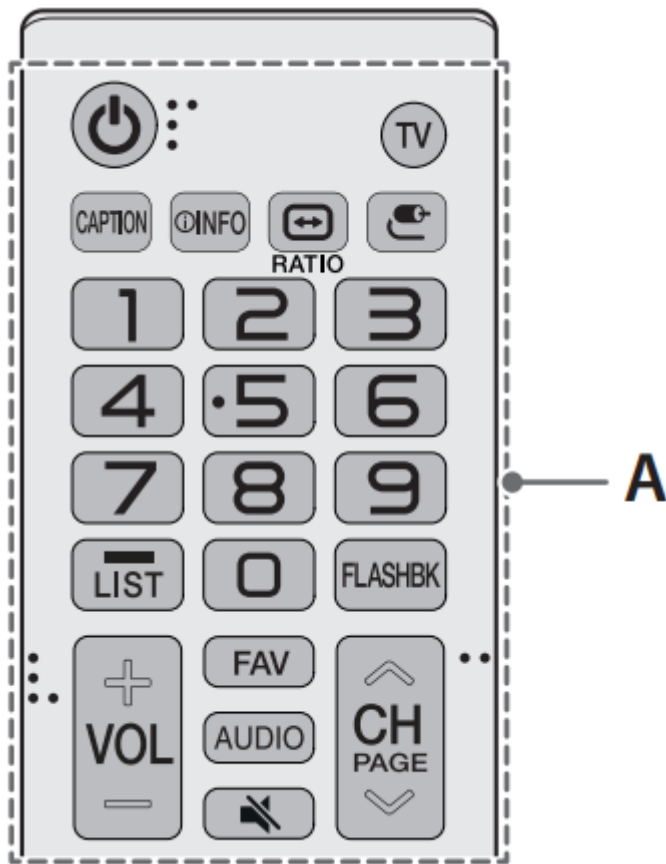
- HDMI Audio Supported Format: AC3 (32 kHz / 44.1 kHz / 48 kHz), PCM (32 kHz / 44.1 kHz / 48 kHz / 96 kHz) (Depending upon model)


Remote Control

(Some buttons and services may not be provided depending upon models or regions.)

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly. To install batteries, open the battery cover, replace


batteries (1.5 V AAA) matching the \oplus and \ominus ends to the label inside the compartment, and close the battery cover. Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution. To remove the batteries, perform the installation actions in reverse. This remote uses infrared light. When in use, it should be pointed in the direction of the TV's remote sensor.





 **(Power)** Turns the TV on or off.

TV Returns to the last TV channel.

CAPTION Activates or deactivates the subtitles.

 **INFO** Shows information on the current program.

 **RATIO** Resizes an image.

 **(Input)** Shows information on the current program.

Number button Enters numbers.

— (Dash) Inserts a dash between numbers such as 2-1 and 2-2.


LIST Accesses the saved channel list.

FLASHBK Alternates between the two last channels selected (pressing repeatedly).

+ VOL — Adjusts the volume level.

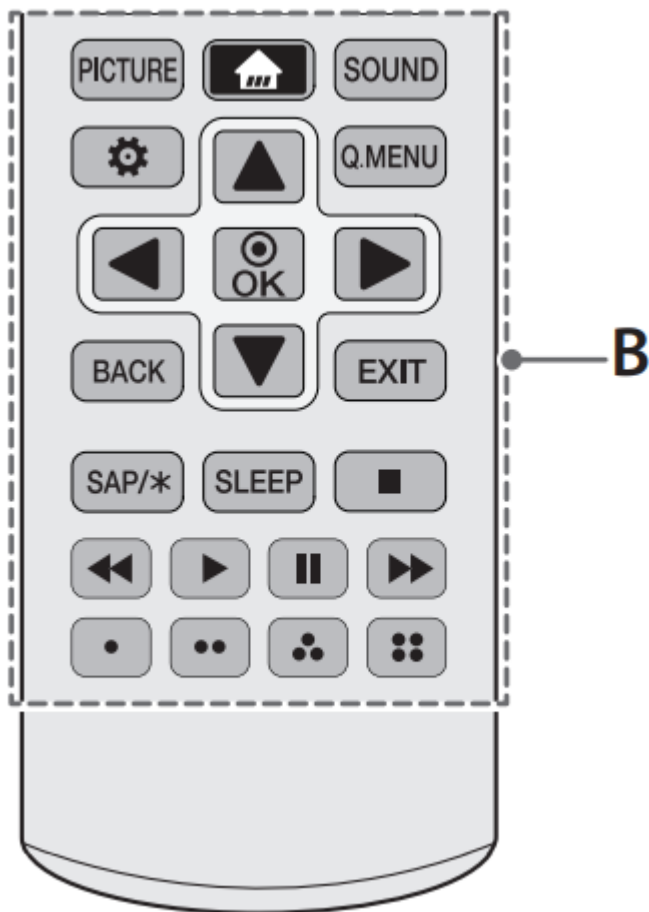
FAV Accesses your favorite channel list.

AUDIO Digital signal: Changes the audio language.
Analog signal: Changes the MTS sound.


 **(Mute)** Mutes all sounds.

^ CH v Scrolls through the saved channels.


^ PAGE v Moves to the previous or next screen.



PICTURE Changes the picture mode.

 **(Home)** Accesses the Home menu.


SOUND Changes the sound mode.

 **(Settings)** Accesses the setting menu.

Q.MENU Accesses the quick menu.

Navigation button (up / down / left / right)

Scrolls through menus or options.


 **OK** Selects menus or options and confirms your input.


BACK Returns to the previous screen.

EXIT Clears all on-screen displays and returns to TV viewing.

SAP/* Enables SAP (Secondary Audio Program) Feature.

SLEEP Sets the length of time until the TV to turns off.

 Control buttons for media contents

 These access special functions in some menus.

Settings


To select Picture Mode

 (Settings) → Picture → Picture Mode Settings → Picture Mode

Select the picture mode optimized for the viewing environment or the program.

- Vivid Heightens contrast, brightness, and sharpness to display vivid images.
- Standard Displays images in standard levels of contrast, brightness and sharpness.
- Cinema / Game Displays the optimum picture for movie or game.
- Sports Optimised picture mode for football matches. The pitch and kits are presented in vibrant colours, with crystal-clear images even for fast movements.
- Depending upon the input signal, the available range of picture modes may differ.

Setting the Picture Mode

 (Settings) → Picture → Picture Mode Settings

This feature allows you to adjust the selected picture mode in detail.

- Backlight Controls the level of screen brightness by adjusting the backlight. The closer to 100, the brighter the screen. Decrease the Backlight to reduce energy consumption.
- Contrast Adjusts the contrast of the bright and dark areas of the picture. The closer to 100, the higher the contrast.
- Brightness Adjusts the overall screen brightness. The closer to 100, the brighter the screen.
- Sharpness Adjusts the sharpness of the image. The closer to 50, the sharper and clearer the image.
- Color Tones down or up the colors displayed on the screen. The closer to 100, the deeper the color.
- Tint Adjusts the color balance between red and green displayed on the screen. The closer to Red 50, the more red the color will be. The closer to Green 50, the more green the color will be.

- Color Temperature Adjusts the overall tone of the screen as desired. In Expert mode, detailed fine-tuning can be set via Gamma method, etc.
- The settings you specify only applies to the currently selected input mode. To apply your current picture settings to all input modes, select Apply to all inputs.
- Depending upon input signal or other picture settings, the range of detailed items for adjustment may differ.

To set expert control



(Settings) → Picture → Picture Mode Settings → Expert Controls

For each picture mode, the screen can be calibrated; or for a special screen, picture settings can be adjusted. Select the desired Picture Mode.

- Dynamic Contrast Adjusts the contrast to the optimal level according to the image's brightness.
- Dynamic Color Adjusts colors to make the image appear in more natural colors.
- Gamma Sets the gradation curve according to the output of picture signal in relation to the input signal.
- Depending upon input signal or other picture settings, the range of detailed items for adjustment may differ.

To set additional picture options



(Settings) → Picture → Picture Mode Settings → Picture Options

Adjusts detailed setting for images.

- Noise Reduction Eliminates noise in the picture.
- MPEG Noise Reduction Eliminates noise generated while creating digital picture signals.
- Black Level Adjusts the brightness and contrast of the screen to suit the black level.
- Real Cinema Optimizes the screen for movie viewing.
- Depending upon input signal or other picture settings, the range of detailed items for adjustment may differ.

Troubleshooting

- **Cannot control the TV with the remote control.**
 - Check if anything such as tape has been placed over the receiver.
 - Check if there is any obstacle between the product and the remote control.
 - Replace the batteries with new fresh ones.

- **No image display and no sound is produced.**

- Check if the product is turned on.
- Check if the power cord is connected to a wall outlet.
- Check if there is a problem in the wall outlet by connecting other products.

- **The TV turns off suddenly.**

- Check the power control settings. The power supply may be interrupted.
- Check if the Sleep Timer / Timer Power Off feature is activated in the Timers settings.
- If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

- **Abnormal Display**

- If the TV feels cold to the touch, there may be a small flicker when it is turned on. This is normal; there is nothing wrong with TV. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TV's performance. Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.
- This panel is an advanced product that contains millions of pixels. In a very few cases, you could see fine dots on the screen while you're viewing the TV. Those dots are deactivated pixels and do not affect the performance and reliability of the TV.
- Displaying a still image for a prolonged period of time may cause an image sticking. Avoid displaying a fixed image on the TV screen for an extended length of time.

- **Generated Sound**

- Cracking noise A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required.
- Electrical circuit humming/panel buzzing

A low level noise is generated from a highspeed switching circuit, which supplies a large amount of current to operate a product. It varies depending upon the product. This generated sound does not affect the performance and reliability of the product.

Specifications

Product specifications may be changed without prior notice due to upgrade of product functions.

Estimated yearly energy consumption indicated on the FTC label is measured in accordance with the Test Procedures for Television Sets (USA only).

The actual energy consumption depends on the usage environment (The content watched, TV settings, etc.).

Television System

NTSC-M, ATSC, 64 & 256 QAM

Program Coverage

VHF 2-13, UHF 14-69, DTV 2-69, CATV 1-135, CADTV 1-135

External Antenna Impedance

75 Ω

Environment condition

- Operating Temperature
0 °C to 40 °C (32 °F to 104 °F)
- Operating Humidity
Less than 80 %
- Storage Temperature
-20 °C to 60 °C (-4 °F to 140 °F)
- Storage Humidity
Less than 85 %

HDMI (PC) supported mode

(Use HDMI IN 1 for PC mode)



Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 400	31.469	70.00
640 x 480	31.469	59.94
800 x 600	35.156	56.25
	37.879	60.317
1024 x 768	48.363	60.004
1280 x 720	45.00	60.00
1280 x 768	47.776	59.87
1366 x 768	49.10	60.00
1280 x 960 ¹	60.00	60.00
1280 x 1024 ¹	63.90	60.00
1280 x 800 ¹	49.50	59.80
1680 x 1050 ¹	65.20	59.90
1920 x 1080 ¹	67.50	60.00

1: For 43LJ5000, 43LJ500M

HDMI (DTV) supported mode



Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 480p	31.47	59.94
	31.50	60.00
720 x 480p	31.47	59.94
	31.50	60.00
1280 x 720p	37.50	50.00
	44.96	59.94
	45.00	60.00
720 (1440) x 480i	15.73	59.94
	15.75	60.00
720 x 576p	31.25	50.00
720 (1440) x 576i	15.63	50.00
1920 x 1080i	28.125	50.00
	33.72	59.94
	33.75	60.00
1920 x 1080p	26.97	23.976
	27.00	24.00
	33.716	29.976
	33.75	30.00
	56.25	50.00
	67.432	59.94
	67.50	60.00

Component port connecting information



Component ports on the TV	Y	P _B	P _R
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Video output ports on DVD player	Y	P _B	P _R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

Component supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 480i	15.73	60.00
720 x 480p	31.50	60.00
1440 x 576i	16.63	50.00
720 x 576p	31.50	50.00
1280 x 720p	37.50	50.00
	45.00	60.00
1920 x 1080i	28.13	50.00
	33.75	60.00
1920 x 1080p	56.25	50.00
	67.50	60.00

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.