	User's Gu	ide Spec	ification				
1. Model	Description						
MODEL	22CS470-TA	BRAND	LG	Part No.	MFL67360831		
SUFFIX	For Asia	Product Name	22CS47**		(1202-REV00)		
2. Pr	2. Printing Specification						
1. Trim Size (Format): 170 mm x 240 mm (tolerance +or - 5 mm) 2. Printing Colors • Cover: 1 COLOR (BLACK) • Inside: 1 COLOR (BLACK) 3. Stock (Paper) Maplitho grade below tolerance for GSM is 5 g/m2. • Cover: Uncoated paper, 백상지 80 g/㎡ • Inside: Uncoated paper, 백상지 80 g/㎡ 4. Printing Method: Off-set 5. Bindery: Saddle stitch 6. Language: English (1) 7. Number of pages: 44 pages							
Esp (1 (2	eails should be followed Eco becially, Part should be follo ) Eco-hazardous substance ) Especially, Don't use or co ecial Instructions	owed and controlled the es test report should be contain lead(Pb) and co	e following specification. e submitted when Part certificatio	n test and Fir	st Mass Production.		
(1)	(1) Origin Notification  * LGEIN: Printed in Indonesia * LGESP: Printed in Brazil * LGEMX: Printed in Mexico * LGEND/NP: Printed in China * LGEMA: Printed in India						
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# **Pagination sheet**

P/NO. MFL67360831 Total pages : 44 pages

LG(EN)						LG(EN)
Front cover P/no	2	3	 	38	blank	Back cover





# OWNER'S MANUAL LED LCD TV / LCD TV

Please read this manual carefully before operating your set and retain it for future reference.

LS340\* LS345\* LM34\*\* CS46\*\* CS47\*\*

P/NO: MFL67360831 (1202-REV 00)

www.lg.com



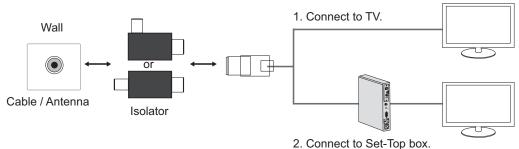


#### Isolator Usage (Safety Caution)

- · Antenna Isolator Installation Guide
- 1. Always use isolator with RF signal port (In wall RF port or in set RF Port).
- 2. Isolator will protect if there is any voltage difference between GND of power Board and GND of Antenna Signal, the Antenna contact might be heated and excessive heat might cause an accident, therefore Isolator installation is highly recommended.
- 3. Avoid disconnecting the antenna isolator after installation.
- 4. When applying RF isolator, a slight loss of signal sensitivity can occur.
- 5. You can improve safety of TV by efficiently removing power voltage from TV antenna.
- Antenna Isolator Installation Method



Isolator Connection Method



Connect one end of the isolator to cable/antenna jack and the other to TV set or set-top box.

\*Above Pictures may differ from the actual.

#### NOTE

"Equipment connected to the protective earthing of mains connection of the building, or through other protective earthing to a cable distribution system using coaxial cable, may create fire hazard in some circumstances. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"



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# **WARNING**

• If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.



#### **CAUTION**

• If you ignore the caution message, you may be slightly injured or the product may be damaged.



#### NOTE

· The note helps you to understand and use the product safely. Please read the note carefully before using the product.









# **LICENSES**

Supported licenses may differ by model. For more information about licenses, visit www.lg.com.



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# **OPEN SOURCE SOFTWARE NOTICE**

To obtain the source code under GPL, LGPL, MPL and other open source licenses, that is contained in this product, please visit <a href="http://opensource.lge.com">http://opensource.lge.com</a>.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email request to opensource@lge.com. This offer is valid for three (3) years from the date on which you purchased the product.









# **SAFETY INSTRUCTIONS**

Please read these safety precautions carefully before using the product.



## **WARNING**



- Do not place the TV and remote control in the following environments:
- A location exposed to direct sunlight
- An area with high humidity such as a bathroom
- Near any heat source such as stoves and other devices that produce heat
- Near kitchen counters or humidifiers where they can easily be exposed to steam or oil
- An area exposed to rain or wind
- Near containers of water such as vases

Otherwise, this may result in fire, electric shock, malfunction or product deformation.



Do not place the product where it might be exposed to dust.
 This may cause a fire hazard.



Mains plug is the disconnecting device. The plug must remain readily operable.



 Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off.
 You may be electrocuted due to excess moisture.



 Make sure to connect the power cable to the grounded current. (Except for devices which are not grounded.)
 You may be electrocuted or injured.



Fix the power cable completely.
 If the power cable is not fixed completely, a fire can break out.



 Ensure the power cord does not come into contact with hot objects such as a heater.

This may cause a fire or an electric shock hazard.



• Do not place a heavy object, or the product itself, on power cables. Otherwise, this may result in fire or electric shock.



 Bend antenna cable between inside and outside building to prevent rain from flowing in.

This may cause water damaged inside the Product and could give an electric shock.



 When mounting a TV on the wall, make sure not to install TV by hanging power and signal cables on the back of the TV.
 It may cause fire, electric shock.









 Do not plug too many electrical devices into a single multiple electrical outlet. Otherwise, this may result in fire due to over-heating.



• Do not drop the product or let it fall over when connecting external devices. Otherwise, this may result in injury or damage to the product.



Keep the packing anti-moisture material or vinyl packing out of the reach of

Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.



• Do not let your children climb or cling onto the TV. Otherwise, the TV may fall over, which may cause serious injury.



· Dispose off used batteries carefully to protect a child from eating them. Please seek Doctor- Medical Attention immediately if child consumes batteries.



 Do not insert any metal objects/conductors (like a metal chopstick/cutlery/ screwdriver) between power cable plug and input Wall Socket while it is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal.

You may be electrocuted.

(Depending on model)



• Do not put or store inflammable substances near the product. There is a danger of combustion/explosion or fire due to careless handling of the inflammable substances.



• Do not drop metallic objects such as coins, hair pins, chopsticks or wire into the product, or inflammable objects such as paper and matches. Children must pay

Electrical shock, fire or injury can occur. If a foreign object is dropped into the product, unplug the power cord and contact the service centre.



• Do not spray water on the product or scrub with an inflammable substance (thinner or benzene). Fire or electric shock accident can occur.



• Do not allow a impact shock or any objects to fall into the product, and do not drop onto the screen with something.

You may be injured or the product can be damaged.

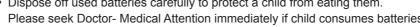


· Never touch this product or antenna during a thunder or lighting storm. You may be electrocuted.



· Never touch the wall outlet when there is leakage of gas, open the windows and

It may cause a fire or a burn by a spark.











Do not disassemble, repair or modify the product at your own discretion.
 Fire or electric shock accident can occur.
 Contact the service center for check, calibration or repair.



- If any of the following occur, unplug the product immediately and contact your local service centre.
  - The product has been impacted by shock
  - The product has been damaged
  - Foreign objects have entered the product
  - The product produced smoke or a strange smell

This may result in fire or electric shock.



• If you don't intend to use the product for a long time, unplug the power cable from the product.

Covering dust can cause a fire, or insulation deterioration can cause electric leakage, electric shock or fire.



• Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.







# CAUTION



Install the product where no radio wave occurs.



There should be enough distance between an outside antenna and power lines to keep the former from touching the latter even when the antenna falls. This may cause an electric shock.



 Do not install the product on places such as unstable shelves or inclined surfaces. Also avoid places where there is vibration or where the product cannot be fully supported.

Otherwise, the product may fall or flip over, which may cause injury or damage to the product.



• If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.

- If you intend to mount the product to a wall, attach VESA standard mounting interface (optional parts) to the back of the product. When you install the set to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.
- Only use the attachments / accessories specified by the manufacturer.



· When installing the antenna, consult a qualified service man. This may create a fire hazard or an electric shock hazard.



• We recommend that you maintain a distance of at least 5 to 7 times the diagonal screen size when watching TV. If you watch TV for a long period of time, this may cause blurred vision.



· Only use the specified type of battery. This could cause damage to the remote control.



 Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.



• Make sure there are no objects between the remote control and its sensor.



· Signal from the remote control may be disturbed by sun light or other strong light. In this case, darken the room.



• When connecting external devices such as video game consoles, make sure the connecting cables are long enough. Otherwise, the product may fall over, which may cause injury or damage the product.











 Do not turn the product On/Off by plugging-in or unplugging the power plug to the wall outlet. (Do not use the power plug for switch.) It may cause mechanical failure or could give an electric shock.



- Please follow the installation instructions below to prevent the product from overheating.
- The distance between the product and the wall should be more than 10 cm.
- Do not install the product in a place with no ventilation (e.g., on a bookshelf or in
- Do not install the product on a carpet or cushion.
- Make sure the air vent is not blocked by a tablecloth or curtain.

Otherwise, this may result in fire.



- Take care not to touch the ventilation openings when watching the TV for long periods as the ventilation openings may become hot. This does not affect the operation or performance of the product.
- · Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.



· Prevent dust collecting on the power plug pins or outlet. This may cause a fire hazard.



· Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.



Do not press strongly upon the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it.



· Avoid touching the screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.



- · When cleaning the product and its components, unplug the power first and wipe it with a soft cloth. Applying excessive force may cause scratches or discolouration. Do not spray with water or wipe with a wet cloth. Never use glass cleaner, car or industrial shiner, abrasives or wax, benzene, alcohol etc., which can damage the product and its panel.
  - Otherwise, this may result in fire, electric shock or product damage (deformation, corrosion or breakage).
- · As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if you turn off this unit by SWITCH.



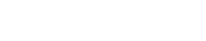
· When unplugging the cable, grab the plug and unplug it. If the wires inside the power cable are disconnected, this may cause fire.



• When moving the product, make sure you turn the power off first. Then, unplug the power cables, antenna cables and all connecting cables. The TV set or power cord may be damaged, which may create a fire hazard or

cause electric shock.









 When moving or unpacking the product, work in pairs because the product is heavy.

Otherwise, this may result in injury.



Contact the service center once a year to clean the internal parts of the product.
 Accumulated dust can cause mechanical failure.



Refer all servicing to qualified service 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, the
apparatus has been exposed to rain or moisture, does not operate normally, or has
been dropped.



• If the product feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with product.



 The panel is a high technology display product with resolution of two million to six million pixels. You may see tiny black dots and/or brightly coloured dots (red, blue or green) at a size of 1 ppm on the panel. This does not indicate a malfunction and does not affect the performance and reliability of the product. This phenomenon also occurs in third-party products and is not subject to exchange or refund.



 You may find different brightness and colour of the panel depending on your viewing position(left/right/top/down).
 This phenomenon occurs due to the characteristic of the panel. It is not relate.

This phenomenon occurs due to the characteristic of the panel. It is not related with the product performance, and it is not malfunction.







 Displaying a still image (e.g., broadcasting channel logo, on-screen menu, scene from a video game) for a prolonged time may cause damage to the screen, resulting in retention of the image, which is known as image sticking. The warranty does not cover the product for image sticking. Avoid displaying a fixed image on your television's screen for a prolonged period (2 or more hours for LCD, 1 or more hours for Plasma).

Also, if you watch the TV at a ratio of 4:3 for a long time, image sticking may occur on the borders of the panel.

This phenomenon also occurs in third-party products and is not subject to exchange or refund.

#### Generated Sound

"Cracking" noise: A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to tempera-ture 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 high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depend-ing on the product.

This generated sound does not affect the performance and reliability of the product.









## Viewing 3D Imaging (Only 3D models)



#### **Viewing Environment**

- · Viewing Time
  - When watching 3D contents, take 5 15 minute breaks every hour. Viewing 3D contents for a long period of time may cause headache, dizziness, fatigue or eye strain.

#### Those that have a photosensitive seizure or chronic illness

- Some users may experience a seizure or other abnormal symptoms when they are exposed to a flashing light or particular pattern from 3D contents.
- · Do not watch 3D videos if you feel nausea, are pregnant and/ or have a chronic illness such as epilepsy, cardiac disorder, or blood pressure disease, etc.
- · 3D Contents are not recommended to those who suffer from stereo blindness or stereo anomaly. Double images or discomfort in viewing may be experienced.
- If you have strabismus (cross-eyed), amblyopia (weak eyesight) or astigmatism, you may have trouble sensing depth and easily feel fatigue due to double images. It is advised to take frequent breaks than the average adult.
- If your eyesight varies between your right and left eye, revise your eyesight prior to watching 3D contents.

#### Symptoms which require discontinuation or refraining from watching 3D contents

- · Do not watch 3D contents when you feel fatigue from lack of sleep, overwork or drinking.
- · When these symptoms are experienced, stop using/watching 3D contents and get enough rest until the symptom subsides.
  - Consult your doctor when the symptoms persist. Symptoms may include headache, eyeball pain, dizziness, nausea, palpitation, blurriness, discomfort, double image, visual inconvenience or fatigue.









#### **Viewing Environment**

- Viewing Distance
  - Maintain a distance of at least twice the screen diagonal length when watching 3D contents. If you feel discomfort in viewing 3D contents, move further away from the TV.

#### **Viewing Age**

- · Infants/Children
  - Usage/ Viewing 3D contents for children under the age of 5 are prohibited.
  - Children under the age of 10 may overreact and become overly excited because their vision is in development (for example: trying to touch the screen or trying to jump into it. Special monitoring and extra attention is required for children watching 3D contents.
  - Children have greater binocular disparity of 3D presentations than adults because the distance between the eyes is shorter than one of adults. Therefore they will perceive more stereoscopic depth compared to adults for the same 3D image.
- Teenagers
  - Teenagers under the age of 19 may react with sensitivity due to stimulation from light in 3D contents. Advise them to refrain from watching 3D contens for a long time when they are tired.
- Elderly
  - The elderly may perceive less 3D effect compared to the youth. Do not sit closer to the TV than the recommended distance.

#### Cautions when using the 3D glasses

- Make sure to use LG 3D glasses. Otherwise, you may not be able to view 3D videos properly.
- Do not use 3D glasses instead of your normal glasses, sunglasses or protective goggles.
- Using modified 3D glasses may cause eye strain or image distortion.
- · Do not keep your 3D glasses in extremely high or low temperatures. It will cause deformation.
- The 3D glasses are fragile and are easy to be scratched. Always use a soft, clean piece of cloth when wiping the lenses. Do not scratch the lenses of the 3D glasses with sharp objects or clean/wipe them with chemicals.











#### **NOTE**

- · 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.
- · Your TV's feature may vary from country to country depending on channel broadcast system.
- New features may be added to this TV in the future.
- The TV can be placed in standby mode in order to reduce the power consumption. And the TV should be turned off if it will not be watched for some time, as this will reduce energy consumption.
- The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and this will reduce the overall running cost.

# INSTALLATION PROCEDURE

- 1 Open the package and make sure all the accessories are included.
- 2 Attach the stand to the TV set.
- 3 Connect an external device to the TV set.

# ASSEMBLING AND PREPARING

# **Unpacking**

Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and item.



#### CAUTION

- Do not use any unapproved items to ensure the safety and product life span.
- · Any damages or injuries by using unapproved items are not covered by the manufacturer's warranty.
- Some models have a thin film attached on to the screen and this must not be removed.



#### **NOTE**

- The items supplied with your product may vary depending on 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 thick and 18 mm width. Use an extension cable that supports USB 2.0 if the USB cable or USB memory stick does not fit into your TV's USB port.





\*A ≤ 10 mm

\*B ≤ 18 mm













# Remote control and batteries (AAA)

(See p. 30, 31)



#### Owner's manual



Polishing cloth

(Depending on model) Use this to remove dust from the cabinet.



**Screw for assembly** 2EA, P4 x 16 (Only 22CS46\*\*, 22CS47\*\*)

(See p. 19)



Screw for assembly

8EA, M4 x 20 (Only 26/32/42CS46\*\*, 26/32/42CS47\*\*,

32/42LS340\*, 32/42LM34\*\*)

(See p. 19, 20)



Screw for assembly

2EA, P4 x 16 4EA, M4 x 20 (Only 32LS345\*)

(See p. 20)



Screw for assembly

4EA, P4 x 16 4EA, M4 x 14 (Only 42LS345\*)

(See p. 21)



Screw for fixing

(Only 26/32/42CS46\*\*, 26/32/42CS47\*\*, 32/42LS34\*\*, 32/42LM34\*\*)

(See p. 22)



**Power Cord** 



Cable holder

(Depending on model)

(See p. 25)



**Protection cover** 

(Only 26CS46\*\*, 26CS47\*\*)

(See p. 25)

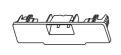


**Protection cover** 

(Only 32CS46\*\*, 32CS47\*\*, 32LS340\*,

32LM34\*\*)

(See p. 25)



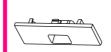
**Protection cover** 

(Only 42CS46\*\*,

42CS47\*\*, 42LS340\*,

42LM34\*\*)

(See p. 25)



**Protection cover** 

(Only 32LS345\*)

(See p. 25)



Cinema 3D Glasses

The number of 3D glasses may differ depending on the model or country. (Only 32/42LM34\*\*)



Isolator

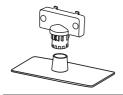
(Depending on model)

(See p. 15)

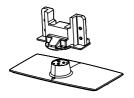




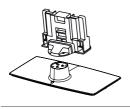




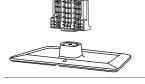
Stand Body / Stand Base (Only 22CS46\*\*, 22CS47\*\*) (See p. 19)



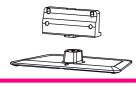
Stand Body / Stand Base (Only 26CS46\*\*, 26CS47\*\*) (See p. 19)



Stand Body / Stand Base (Only 32/42CS46\*\*, 32/42CS47\*\*, 32/42LS340\*, 32/42LM34\*\*) (See p. 20)



Stand Body / Stand Base (Only 32LS345\*) (See p. 20)



Stand Body / Stand Base (Only 42LS345\*) (See p. 21)







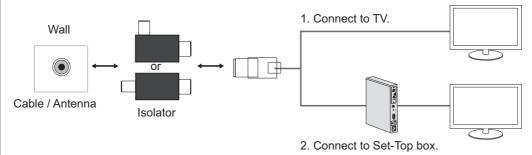
# NOTE

#### Isolator Usage (Safety Caution)

- · Antenna Isolator Installation Guide
- 1. Always use isolator with RF signal port (In wall RF port or in set RF Port).
- 2. Isolator will protect if there is any voltage difference between GND of power Board and GND of Antenna Signal, the Antenna contact might be heated and excessive heat might cause an accident, therefore Isolator installation is highly recommended.
- 3. Avoid disconnecting the antenna isolator after installation.
- 4. When applying RF isolator, a slight loss of signal sensitivity can occur.
- 5. You can improve safety of TV by efficiently removing power voltage from TV antenna.
- Antenna Isolator Installation Method



· Isolator Connection Method



Connect one end of the isolator to cable/antenna jack and the other to TV set or set-top box.

\*Above Pictures may differ from the actual.

#### NOTE

"Equipment connected to the protective earthing of mains connection of the building, or through other protective earthing to a cable distribution system using coaxial cable, may create fire hazard in some circumstances. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"









# Separate purchase

Separate purchase items can be changed or modified for quality improvement without any notification. Contact your dealer to buying these items.

These devices only work with certain models.



#### AG-F3\*\*

Cinema 3D Glasses The model name or design may be changed depending on the upgrade of product functions, manufacturer's circumstances or policies.

Compatibility	32/42/LM34**	32/42LS34**, 22/26/32/42CS46**, 22/26/32/42CS47**
AG-F3** Cinema 3D Glasses	•	







# **Parts and buttons**

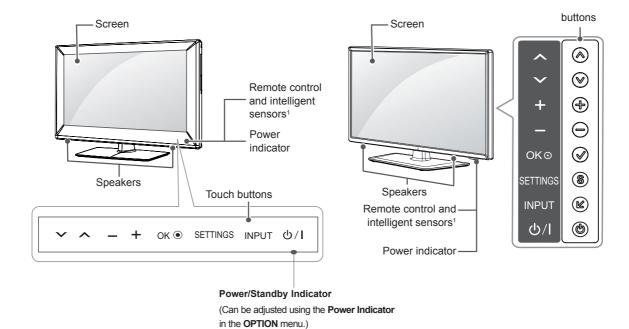
Image shown may differ from your TV.

A type: 22/26/32/42CS46\*\*,

22/26/32/42CS47\*\*, 32/42LS340\*

32/42LM34\*\*

B type: 32/42LS345\*



Button A type <sup>2</sup> B type		Description	
- +	+ -	Adjusts the volume level.	
OK ⊚	~	Selects the highlighted menu option or confirms an input.	
SETTINGS	S	Accesses the main menu, or saves your input and exits the menus.	
INPUT	K	Changes the input source.	
ტ/I	ტ	Turns the power on or off.	

- 1 Intelligent sensor Adjusts the image quality and brightness based on the surrounding environment.
- 2 A type buttons are touch sensitive and can be operated through simple touch with your finger.









# Lifting and moving the TV

Please note the following advice to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.



#### CAUTION

- · Avoid touching the screen at all times, as this may result in damage to the screen.
- It is recommended to move the TV in the box or packing material that the TV originally came
- · Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.

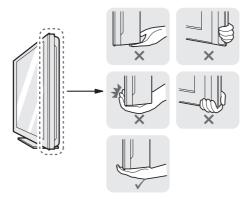
- When transporting a large TV, there should be at least 2 people.
- When transporting the TV by hand, hold the TV as shown in the following illustration.



- · 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.



· Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.





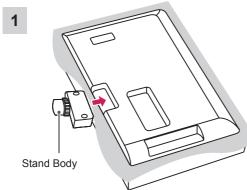


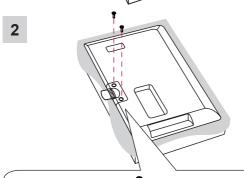


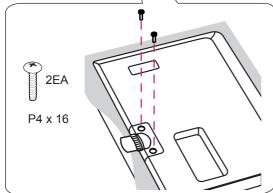
# Setting up the TV

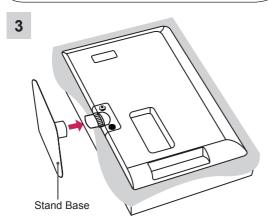
# Attaching the stand

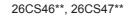
Image shown may differ from your TV. 22CS46\*\*, 22CS47\*\*

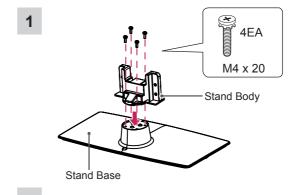


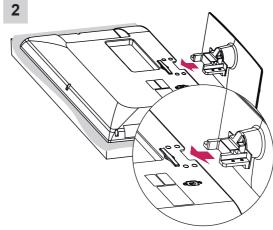


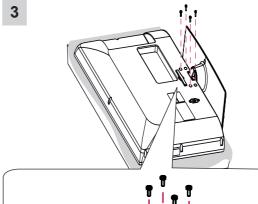


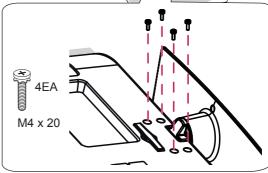














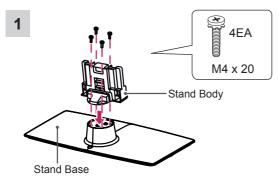




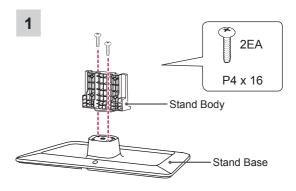
#### 20 ASSEMBLING AND PREPARING

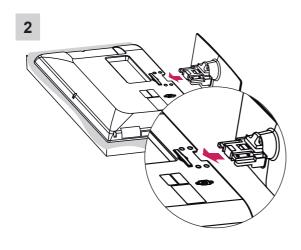
Image shown may differ from your TV.

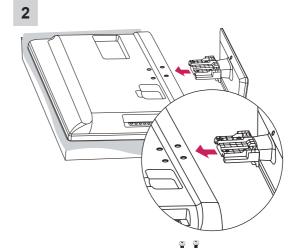
32/42CS46\*\*, 32/42CS47\*\*, 32/42LS340\*, 32/42LM34\*\*

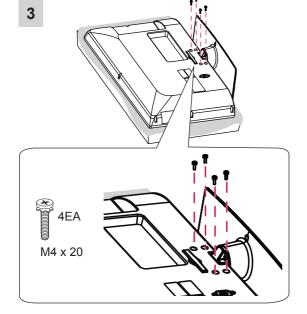


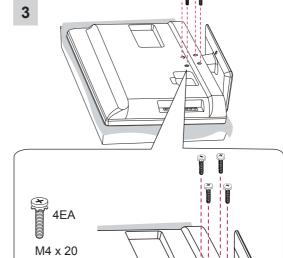












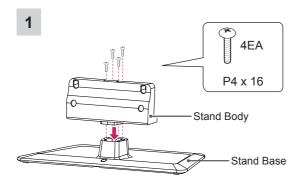


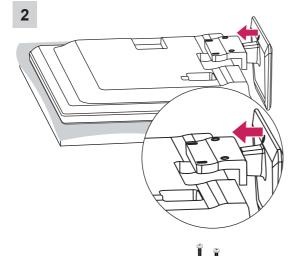
**(** 

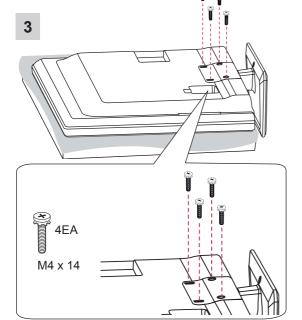




#### 42LS345\*







# CAUTION

- 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 inserted correctly and fastened securely. (If they are not fastened securely enough, the TV may tilt forward after being installed.) Do not use too much force and over tighten the screws; otherwise screw may be damaged and not tighten correctly.



# NOTE

• Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.





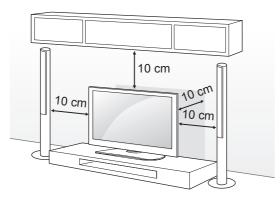






# Mounting on a table

- 1 Lift and tilt the TV into its upright position on a table.
  - Leave a 10 cm (minimum) space from the wall for proper ventilation.



2 Connect the power cord to a wall outlet.



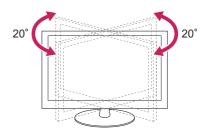
## **CAUTION**

• Do not place the TV near or on sources of heat, as this may result in fire or other damage.

#### Adjusting the angle of the TV to suit view

(Only 32/42CS46\*\*, 32/42CS47\*\*, 32/42LS340\*, 32/42LM34\*\*)

Swivel 20 degrees to the left or right and adjust the angle of the TV to suit your view.



# **CAUTION**

- · When adjusting the angle of the product, watch out for your fingers.
  - Personal injury may occur if hands or fingers are pinched. If the product is tilted too much, it may fall, causing damage or injury.

#### Securing the TV to a table

(Only 26/32/42CS46\*\*, 26/32/42CS47\*\*, 32/42LS34\*\*, 32/42LM34\*\*)

Fix the TV to a table to prevent from tilting forward, damage, and potential injury.

To secure the TV to a table, insert and tighten the supplied screw on the rear of the stand.





#### **WARNING**

• To prevent TV from falling over, the TV should be securely attached to the floor/ wall per installation instructions. Tipping, shaking, or rocking the TV may cause injury.

Image shown may differ from your TV.



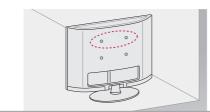


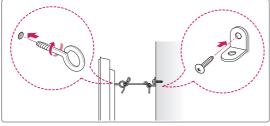




#### Securing the TV to a wall

(This feature is not available for all models.)





- 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.

Make sure to keep the rope horizontal with the flat surface.



#### **CAUTION**

 Make sure that children do not climb on or hang on the TV.



## NOTE

- Use a platform or cabinet that is strong and large enough to support the TV securely.
- Brackets, bolts and ropes are not provided.
   You can obtain additional accessories from your local dealer.

#### Using the Kensington security system

(Depending on model)

The Kensington security system connector is located at the rear of the TV. For more information of installation and using, refer to the manual provided with the Kensington security system or visit http://www.kensington.com.

Connect the Kensington security system cable between the TV and a table.

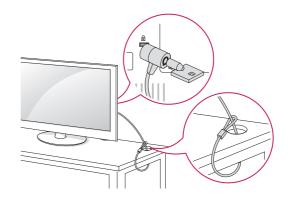


Image shown may differ from your TV.

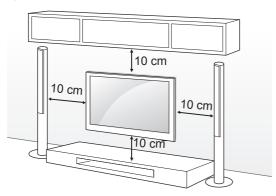






# Mounting on a wall

Attach an optional wall mount bracket at the rear of the TV carefully and install the wall mount bracket on a solid wall perpendicular to the floor. When you attach the TV to other building materials, please contact qualified personnel. LG recommends that wall mounting be performed by a qualified professional installer.



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

#### Separate purchase(Wall Mounting Bracket)

Model	22CS46**,	26/32CS46**,
	22CS47**	26/32CS47**,
		32LS34**,
		32LM34**
VESA (A x B)	100 x 100	200 x 100
Standard	M4	M4
screw		

Model	42CS46**, 42CS47**, 42LS34**,
	42LM34**
VESA (A x B)	200 x 200
Standard	M6
screw	



#### CAUTION

- Disconnect the power first, and then move or install the TV. Otherwise electric shock may occur.
- If you install the TV on a ceiling or slanted wall, it may fall and result in severe injury.
   Use an authorized LG wall mount and contact the local dealer or qualified personnel.
- Do not over tighten the screws as this may cause damage to the TV and void your warranty.
- Use the screws and wall mounts that meet the VESA standard. Any damages or injuries by misuse or using an improper accessory are not covered by the manufacturer's warranty.



#### NOTE

- Use the screws that are listed on the VESA standard screw specifications.
- The length of screws may differ depending on the wall mount. Make sure to use the proper length.



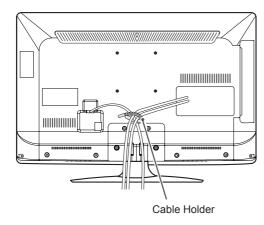




# **Tidying cables**

Only 32/42LS345\*

 Gather and bind the cables with the Cable Holder on the TV back cover.



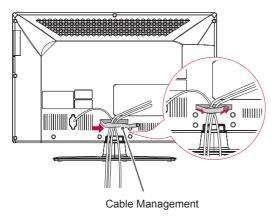


## **CAUTION**

 Do not move the TV by holding the cable holder, as the cable holders may break, and injuries and damage to the TV may occur.

Only 26/32/42CS46\*\*\*, 26/32/42CS47\*\*, 32/42LS340\*, 32/42LM34\*\*

- 1 Gather and bind the cables with the cable management.
- 2 Fix the cable management firmly to the TV.





#### **CAUTION**

 Do not move the TV by holding the cable management, as the cable management may break, and injuries and damage to the TV may occur.

# Not using the Desk-Type Stand

Only 26/32/42CS46\*\*, 26/32/42CS47\*\*, 32/42LS340\*, 32/42LM34\*\*, 32LS345\*

 When installing the wall mounting bracket, use the Protection cover. This will protect the opening from accumulating dust and dirt.

Push the supplied protection cover into the opening at the bottom of the TV until it locks in place.

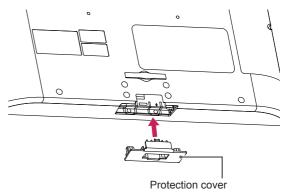


Image shown may differ from your TV.









# MAKING CONNECTIONS

 This section on MAKING CONNECTIONS mainly uses diagrams for the CS46\*\* models.

Connect various external devices to the TV and switch input modes to select an external device. For more information of external device's connection, refer to the manual provided with each device.

Available external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices.

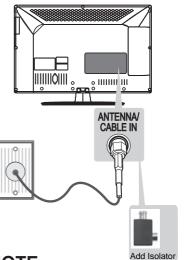


#### NOTE

- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.
- 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 of recording, refer to the manual provided with the connected device.
- Refer to the external equipment's manual for operating instructions.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.

# **Antenna connection**

Connect the TV to a wall antenna socket with an RF cable (75  $\Omega$ ).





#### NOTE

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, try to realign the antenna in the correct direction.
- An antenna cable and converter are not supplied.
- Always use an isolator as shown in the above image.

Image shown may differ from your TV.



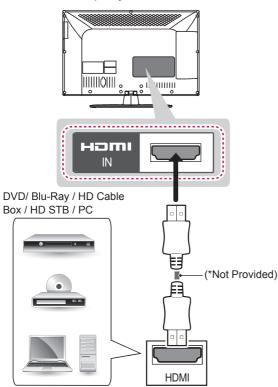




# **HDMI** connection

Transmits the digital video and audio signals from an external device to the TV. Connect the external device and the TV with the HDMI cable as shown.

Choose any HDMI input port to connect. It does not matter which port you use.



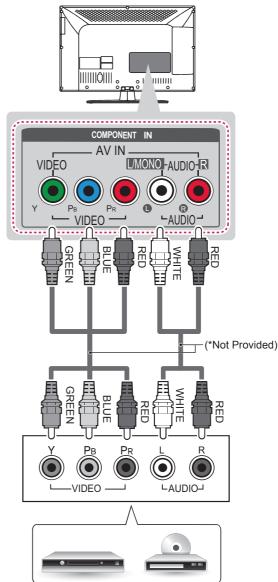
# **NOTE**

- · It is recommended to use the TV with the HDMI connection for the best image quality.
- Use the latest High Speed HDMI™ Cable with CEC (Customer Electronics Control)
- High Speed HDMI™ Cables are tested to carry an HD signal up to 1080p and higher.
- Supported DTV Audio: MPEG, Dolby Digital, Dolby Digital Plus, HE-AAC
- Supported HDMI Audio format : Dolby Digital, PCM (Up to 192 KHz, 32k/44.1k/48k /88k/96k/176k/192k, DTS Not supported.)

Image shown may differ from your TV.

# **Component connection**

Transmits analog video and audio signals from an external device to the TV. Connect the external device and the TV with a component cable as shown.





DVD/ Blu-Ray / HD Cable Box

# **NOTE**

· If cables are installed incorrectly, it could cause the image to display in black and white or with distorted colour.

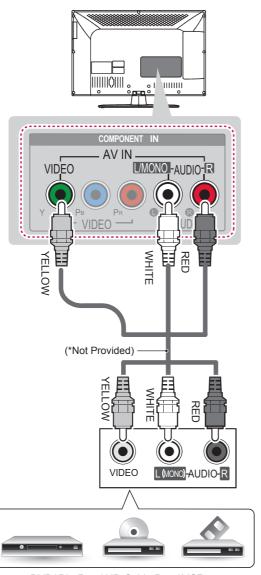






# **Composite connection**

Transmits analog video and audio signals from an external device to the TV. Connect the external device and the TV with the composite cable as shown.



DVD/ Blu-Ray / HD Cable Box / VCR

# **USB** connection

Connect a USB storage device such as a USB flash memory, external hard drive, or a USB memory card reader to the TV and access the My media menu to use various multimedia files.

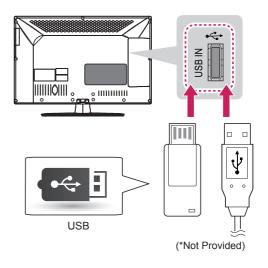


Image shown may differ from your TV.





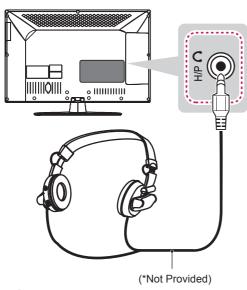




# Headphone connection Image shown may differ from your TV.

(Only 22/26/32/42CS47\*\*)

Transmits the headphone signal from the TV to an external device. Connect the external device and the TV with the headphone as shown.





# NOTE

- AUDIO menu items are disabled when connecting a headphone.
- Headphone impedance: 16  $\boldsymbol{\Omega}$
- Max audio output of headphone: 9 mW to 15
- Headphone jack size: 0.35 cm







# **REMOTE CONTROL**

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 replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching the  $\oplus$  and  $\bigcirc$  ends to the label inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse.



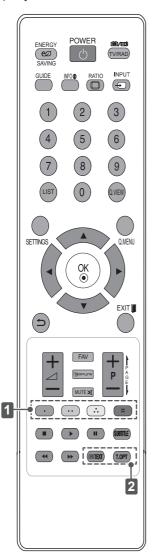
Image shown may differ from your TV.



#### CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- In Analogue TV and some countries, some remote control buttons may not work.

Make sure to point the remote control toward the remote control sensor on the TV. (Only 22/26/32/42CS46\*\*, 22/26/32/42CS47\*\*, 32/42LS34\*\*)



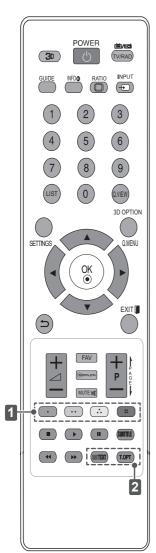
eø ENERGY SAVING	Adjusts the brightness of the screen to reduce
es ENERGY SAVING	, ,
TV/DAD W	energy consumption.
TV / RAD 亩/ು	Selects Radio, TV and DTV programme.
GUIDE	Shows programme guide.
INFO ①	Views the information of the current programme
	and screen.
RATIO	Resizes an image.
<b>⊕</b> INPUT	Changes the input source.
LIST	Accesses the saved programme list.
Q.VIEW	Returns to the previously viewed programme.
SETTINGS	Accesses the main menus.
Q.MENU	Accesses the Quick menus.
Navigation buttons	Scrolls through menus or options.
(up/down/left/right)	
OK ⊚	Accepts your selection or display the current mode
Þ	Returns to the previous level.
EXIT	Clears on-screen displays and return to TV
	viewing.
FAV	Accesses your favourite programme list.
SMPLINK	Accesses the AV devices connected with the
	HDMI cable through HDMI-CEC.
	Opens the SIMPLINK menu.
← PAGE ←	Moves to the previous or next screen.
1 Coloured buttons	These access special functions in some menus.
	( : Red, : Green, : Yellow, : Blue)
SUBTITLE	Recalls your preferred subtitle in digital mode.
Control buttons	Controls the MY MEDIA menus, or the SIMPLINK
( ■, ▶,   , ◀◀, ▶▶)	compatible devices (USB,SIMPLINK).
2 TELETEXT	These buttons are used for teletext.
BUTTONS	
MUTE	Switches the sound ON or OFF
POWER	Switches the TV ON from Standby or OFF to Standby
	Tomicino and it of thom orangey of or i to orangey







Image shown may differ from your TV. (Only 32/42LM34\*\*)



<b>3</b> D	Used for viewing 3D video.
TV / RAD i≝i/i⊠i	Selects Radio, TV and DTV programme.
GUIDE	Shows programme guide.
INFO ①	Views the information of the current programme
	and screen.
RATIO	Resizes an image.
<b>⊕</b> INPUT	Changes the input source.
LIST	Accesses the saved programme list.
Q.VIEW	Returns to the previously viewed programme.
3D OPTION	Use this to view 3D video.
SETTINGS	Accesses the main menus.
Q.MENU	Accesses the Quick menus.
Navigation buttons	Scrolls through menus or options.
(up/down/left/right)	
OK ⊚	Accepts your selection or display the current mode
<b>5</b>	Returns to the previous level.
EXIT	Clears on-screen displays and return to TV
	viewing.
FAV	Accesses your favourite programme list.
SMPLINK	Accesses the AV devices connected with the
	HDMI cable through HDMI-CEC.
	Opens the SIMPLINK menu.
← PAGE ←	Moves to the previous or next screen.
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	( : Red, : Green, : Yellow, : Blue)
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Control buttons	Controls the MY MEDIA menus, or the SIMPLINK
( ■, ▶,   , ◀◀, ▶▶)	compatible devices (USB,SIMPLINK).
2 TELETEXT	These buttons are used for teletext.
BUTTONS	
MUTE	Switches the sound ON or OFF
POWER	Switches the TV ON from Standby or OFF to Standby







# **USING THE USER GUIDE**

User Guide allows you to more easily access the detailed TV information.

**(** 

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the RED button to access the Customer Support menus.
- 3 Press the Navigation buttons to scroll to User Guide and press OK.









- Shows the description of the selected menu. You can use ∧/∨ to move between pages.
- Zooms in or out the screen.



- 1 Allows to select the category you want.
- Allows to select the item you want. You can use ^/ to move between pages.
- 3 Allows to browse the description of the function you want from the index.







# **MAINTENANCE**

# Cleaning your TV

Clean your TV regularly to keep the best performance and to extend the product lifespan.



#### **CAUTION**

- Make sure to turn the power off and disconnect the power cord and all other cables first.
- When the TV is left unattended and unused for a long time, disconnect the power cord from the wall outlet to prevent possible damage from lightning or power surges.

#### Screen, frame, cabinet and stand

- To remove dust or light dirt, wipe the surface with a dry, clean, and soft cloth.
- To remove major dirt, wipe the surface with a soft cloth dampened in clean water or a diluted mild detergent. Then wipe immediately with a dry cloth.



# **CAUTION**

- · Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not push, rub, or hit the screen surface with your fingernail or a sharp object, as this may result in scratches and image distortions.
- Do not use any chemicals as this may damage the product.
- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.

#### **Power cord**

Remove the accumulated dust or dirt on the power cord regularly.

# **TROUBLESHOOTING**

Problem	Solution
Cannot control the TV with the remote control.	<ul> <li>Check the remote control sensor on the product and try again.</li> <li>Check if there is any obstacle between the product and the remote control.</li> <li>Check if the batteries are still working and properly installed (⊕ to ⊕, ⊝ to ⊝).</li> </ul>
No image display and no sound is produced.	<ul> <li>Check if the product is turned on.</li> <li>Check if the power cord is connected to a wall outlet.</li> <li>Check if there is a problem in the wall outlet by connecting other products.</li> </ul>
The TV turns off suddenly.	<ul> <li>Check the power control settings. The power supply may be interrupted.</li> <li>Check if the Auto sleep feature is activated in the Time settings.</li> <li>If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.</li> </ul>









# Audio

Problem	Solution
No sound is produced while images are displaying.	<ul> <li>Press ∠ + or - button.</li> <li>Check if the sound is muted by pressing MUTE.</li> <li>Scroll to other channels. There may a problem with the broadcast.</li> <li>Check if the audio cables are connected properly.</li> </ul>
One of the speakers produce noises or does not produce sound.	<ul> <li>A change in ambient humidity or temperature may result in an unusual noise when the product turns on or off.</li> <li>There is no problem with your product.</li> </ul>

# Video

Problem	Solution
An image displays in black and white or the colour quality is poor.	<ul> <li>Adjust the colour setting in the PICTURE menu.</li> <li>Keep a sufficient distance between this product and other electronic products.</li> <li>Scroll to other channels. There may a problem with the broadcast.</li> </ul>
Horizontal or vertical bars appears or images blur	<ul> <li>Check if there are local interferences such as an electrical appliance or power tool.</li> </ul>
Lines or streaks appear on images	Check the antenna or aim the antenna to the proper direction.
Afterimages (ghosts) appear when the product turns off	<ul> <li>Pixels may have been damaged from a fixed image displayed for a long time (image burn). Use a screen saver to prevent the pixel damage on the screen.</li> </ul>
The power is on but the screen appears extremely dark.	Adjust the brightness and contrast in the PICTURE menu.
"No Signal" appears on the screen.	<ul> <li>Check if the signal cable is connected between the TV and products properly.</li> <li>Check the selected input source by pressing INPUT.</li> </ul>
Thin lines appear in the background of the screen.	Check the video cable connections.
The reception on some channels is poor	<ul> <li>Scroll to other channels. There may a problem with the broadcast.</li> <li>The station signal may be weak. Aim the antenna to the proper direction.</li> <li>Check if there is local interference such as an electrical appliance or power tool.</li> </ul>







# **SPECIFICATIONS**

Product specifications may be changed without prior notice due to upgrade of product functions. For the power supply and power consumption, refer to the label attached to the product.

		22CS46**	26CS46**	32CS46**
MODELS		22CS460-TA 22CS460Y-TA 22CS461-TB 22CS461Y-TB	26CS460-TA 26CS460Y-TA 26CS461-TB 26CS461Y-TB	32CS460-TA 32CS460Y-TA 32CS461-TB 32CS461Y-TB
Dimensions	With stand (mm)	539.0 x 400.0 x 165.0	663.0 x 483.0 x 197.0	794.0 x 565.0 x 207.0
(W x H x D)	Without stand(mm)	539.0 x 345.0 x 56.8	663.0 x 424.0 x 72.8	794.0 x 504.0 x 73.5
Weight	With stand (kg)	4.2	7.4	9.0
	Without stand (kg)	3.9	6.6	8.0
Power requir	ement	AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
		42CS46**	22CS47**	26CS47**
MODELS		42CS460-TA 42CS460Y-TA 42CS461-TB 42CS461Y-TB	22CS470-TA 22CS471-TB	26CS470-TA 26CS471-TB
Dimensions	With stand (mm)	1017.0 x 695.0 x 261.0	539.0 x 400.0 x 165.0	663.0 x 483.0 x 197.0
(W x H x D)	Without stand(mm)	1017.0 x 629.0 x 76.5	539.0 x 345.0 x 56.8	663.0 x 424.0 x 72.8
Weight	With stand (kg)	15.1	4.2	7.4
	Without stand (kg)	13.5	3.9	6.6
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
	OTTIOTIC			
. o.ror roquii	<u> </u>	32CS47**	42CS47**	32LS340*
MODELS	S.I.I.S.II.			<b>32LS340*</b> 32LS3400-TA 32LS340Y-TA
	With stand (mm)	<b>32CS47**</b> 32CS470-TA	<b>42CS47**</b> 42CS470-TA	32LS3400-TA
MODELS		<b>32CS47**</b> 32CS470-TA 32CS471-TB	<b>42CS47**</b> 42CS470-TA 42CS471-TB	32LS3400-TA 32LS340Y-TA
MODELS  Dimensions	With stand (mm)	32CS47** 32CS470-TA 32CS471-TB 794.0 x 565.0 x 207.0	<b>42CS47**</b> 42CS470-TA 42CS471-TB 1017.0 x 695.0 x 261.0	32LS3400-TA 32LS340Y-TA 795.0 x 566.0 x 207.0
MODELS  Dimensions (W x H x D)	With stand (mm) Without stand(mm)	32CS47** 32CS470-TA 32CS471-TB 794.0 x 565.0 x 207.0 794.0 x 504.0 x 73.5	42CS47**  42CS470-TA  42CS471-TB  1017.0 x 695.0 x 261.0  1017.0 x 629.0 x 76.5	32LS3400-TA 32LS340Y-TA 795.0 x 566.0 x 207.0 795.0 x 504.0 x 73.5
MODELS  Dimensions (W x H x D)	With stand (mm) Without stand(mm) With stand (kg) Without stand (kg)	32CS47** 32CS470-TA 32CS471-TB 794.0 x 565.0 x 207.0 794.0 x 504.0 x 73.5 9.0 8.0	42CS47**  42CS470-TA  42CS471-TB  1017.0 x 695.0 x 261.0  1017.0 x 629.0 x 76.5  15.1	32LS3400-TA 32LS340Y-TA 795.0 x 566.0 x 207.0 795.0 x 504.0 x 73.5 9.1 8.1
MODELS  Dimensions (W x H x D)  Weight	With stand (mm) Without stand(mm) With stand (kg) Without stand (kg)	32CS47** 32CS470-TA 32CS471-TB 794.0 x 565.0 x 207.0 794.0 x 504.0 x 73.5 9.0 8.0	42CS47**  42CS470-TA  42CS471-TB  1017.0 x 695.0 x 261.0  1017.0 x 629.0 x 76.5  15.1  13.5	32LS3400-TA 32LS340Y-TA 795.0 x 566.0 x 207.0 795.0 x 504.0 x 73.5 9.1 8.1
MODELS  Dimensions (W x H x D)  Weight	With stand (mm) Without stand(mm) With stand (kg) Without stand (kg)	32CS47** 32CS470-TA 32CS471-TB 794.0 x 565.0 x 207.0 794.0 x 504.0 x 73.5 9.0 8.0 AC 100-240 V~ 50 / 60 Hz	42CS47**  42CS470-TA  42CS471-TB  1017.0 x 695.0 x 261.0  1017.0 x 629.0 x 76.5  15.1  13.5  AC 100-240 V~ 50 / 60 Hz	32LS3400-TA 32LS340Y-TA 795.0 x 566.0 x 207.0 795.0 x 504.0 x 73.5 9.1 8.1 AC 100-240 V~ 50 / 60 Hz
MODELS  Dimensions (W x H x D)  Weight  Power requir  MODELS  Dimensions	With stand (mm) Without stand(mm) With stand (kg) Without stand (kg)	32CS47** 32CS470-TA 32CS471-TB 794.0 x 565.0 x 207.0 794.0 x 504.0 x 73.5 9.0 8.0 AC 100-240 V~ 50 / 60 Hz 42LS340*	42CS47**  42CS470-TA  42CS471-TB  1017.0 x 695.0 x 261.0  1017.0 x 629.0 x 76.5  15.1  13.5  AC 100-240 V~ 50 / 60 Hz  32LM34**  32LM3400-TB  32LM340Y-TB  32LM3410-TC	32LS3400-TA 32LS340Y-TA 795.0 x 566.0 x 207.0 795.0 x 504.0 x 73.5 9.1 8.1 AC 100-240 V~ 50 / 60 Hz 42LM34** 42LM3400-TB 42LM340Y-TB 42LM3410-TC 42LM341Y-TC 42LM3450-TC
MODELS  Dimensions (W x H x D)  Weight  Power requir	With stand (mm) Without stand(mm) With stand (kg) Without stand (kg) ement	32CS47** 32CS470-TA 32CS471-TB 794.0 x 565.0 x 207.0 794.0 x 504.0 x 73.5 9.0 8.0 AC 100-240 V~ 50 / 60 Hz 42LS340*  42LS3400-TA 42LS340Y-TA	42CS47**  42CS470-TA  42CS471-TB  1017.0 x 695.0 x 261.0  1017.0 x 629.0 x 76.5  15.1  13.5  AC 100-240 V~ 50 / 60 Hz  32LM34**  32LM3400-TB  32LM340Y-TB  32LM3410-TC  32LM341Y-TC	32LS3400-TA 32LS340Y-TA 795.0 x 566.0 x 207.0 795.0 x 504.0 x 73.5 9.1 8.1 AC 100-240 V~ 50 / 60 Hz 42LM34** 42LM3400-TB 42LM340Y-TB 42LM341Y-TC 42LM3450-TC 42LM345Y-TC
MODELS  Dimensions (W x H x D)  Weight  Power requir  MODELS  Dimensions	With stand (mm) Without stand(mm) With stand (kg) Without stand (kg) ement  With stand (mm)	32CS47** 32CS470-TA 32CS471-TB 794.0 x 565.0 x 207.0 794.0 x 504.0 x 73.5 9.0 8.0 AC 100-240 V~ 50 / 60 Hz 42LS340*  42LS3400-TA 42LS340Y-TA	42CS47**  42CS470-TA  42CS471-TB  1017.0 x 695.0 x 261.0  1017.0 x 629.0 x 76.5  15.1  13.5  AC 100-240 V~ 50 / 60 Hz  32LM3400-TB  32LM340Y-TB  32LM3410-TC  32LM341Y-TC	32LS3400-TA 32LS340Y-TA 795.0 x 566.0 x 207.0 795.0 x 504.0 x 73.5 9.1 8.1 AC 100-240 V~ 50 / 60 Hz 42LM34** 42LM3400-TB 42LM3410-TC 42LM341Y-TC 42LM3450-TC 42LM345Y-TC 1018.0 x 696.0 x 261.0
MODELS  Dimensions (W x H x D)  Weight  Power requir  MODELS  Dimensions (W x H x D)	With stand (mm) Without stand(mm) With stand (kg) Without stand (kg) ement  With stand (mm) With stand (mm)	32CS47** 32CS470-TA 32CS471-TB 794.0 x 565.0 x 207.0 794.0 x 504.0 x 73.5 9.0 8.0 AC 100-240 V~ 50 / 60 Hz 42LS340*  42LS3400-TA 42LS340Y-TA  1018.0 x 696.0 x 261.0 1018.0 x 629.0 x 76.5	42CS47**  42CS470-TA  42CS471-TB  1017.0 x 695.0 x 261.0  1017.0 x 629.0 x 76.5  15.1  13.5  AC 100-240 V~ 50 / 60 Hz  32LM34**  32LM3400-TB  32LM340Y-TB  32LM341Y-TC  795.0 x 566.0 x 207.0  795.0 x 504.0 x 73.5	32LS3400-TA 32LS340Y-TA 795.0 x 566.0 x 207.0 795.0 x 504.0 x 73.5 9.1 8.1 AC 100-240 V~ 50 / 60 Hz 42LM34** 42LM3400-TB 42LM3410-TC 42LM341Y-TC 42LM345Y-TC 1018.0 x 696.0 x 261.0 1018.0 x 629.0 x 76.5









		32LS345*	42LS345*
MODELS		32LS3450-TA	42LS3450-TA
		32LS345Y-TA	42LS345Y-TA
Dimensions (W x H x D)	With stand (mm)	738.0 x 501.0 x 185.0	972.0 x 635.0 x 212.0
	Without stand(mm)	738.0 x 438.0 x 86.0	972.0 x 571.0 x 86.0
Weight	With stand (kg)	7.5	11.8
	Without stand (kg)	6.9	10.7
Power requir	ement	AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz

	Operating Temperature	0 °C to 40 °C
condition	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	Less than 85 %







		Digital TV	Analogue TV
New Zealand,	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I
Singapore	Programme Coverage	UHF 21 to 69	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47
Australia	Television System	DVB-T	PAL B/B
	Programme Coverage	VHF 06 to 12, UHF 27 to 69	B/B : VHF/UHF 0 to 75, CATV : 2 to 44
Indonesia,	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
Israel, Myanmar, Sri Lanka	Programme Coverage	UHF 21 to 69	BG: VHF/UHF 1 to 69, CATV 01 to 47 I: VHF/UHF 1 to 69, CATV 01 to 47 DK: VHF/UHF 1 to 69, CATV 01 to 47 M: VHF/UHF 2 to 78, CATV 01 to 71
Vietnam,	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
Malaysia	Programme Coverage	VHF 6 to 12, UHF 21 to 69	BG: VHF/UHF 1 to 69, CATV 01 to 47 I: VHF/UHF 1 to 69, CATV 01 to 47 DK: VHF/UHF 1 to 69, CATV 01 to 47 M: VHF/UHF 2 to 78, CATV 01 to 71
Iran, Algeria,	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
Tunisia, Digital model	Programme Coverage	VHF 5 to 12, UHF 21 to 69	BG: VHF/UHF 1 to 69, CATV 01 to 47 I: VHF/UHF 1 to 69, CATV 01 to 47 DK: VHF/UHF 1 to 69, CATV 01 to 47 M: VHF/UHF 2 to 78, CATV 01 to 71
Analogue model,	Television System	-	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
India, Thailand, South Africa,	Programme Coverage	-	BG: VHF/UHF 1 to 69, CATV 01 to 47 I: VHF/UHF 1 to 69, CATV 01 to 47 DK: VHF/UHF 1 to 69, CATV 01 to 47 M: VHF/UHF 2 to 78, CATV 01 to 71
	External Antenna Impedance	75 Ω	75 Ω









# **HDMI-DTV** supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720x480	31.469 31.5	59.94 60
720x576	31.25	50
1280x720	37.5 44.96 45	50 59.94 60
1920x1080	33.72 33.75 28.125 26.97 27 33.716 33.75 56.25 67.43 67.5	59.94 60 50 23.97 24 29.976 30.00 50 59.94 60

## Component port connecting information

Component ports on the TV	Υ	P <sub>B</sub>	P <sub>R</sub>
Video output ports on DVD	Υ	P <sub>B</sub>	P <sub>R</sub>
player	Υ	B-Y	R-Y
	Υ	Cb	Cr
	Υ	Pb	Pr

Signal	Component
480i/576i	0
480p/576p	0
720p/1080i	0
1080p	0
	(50 Hz / 60 Hz only)

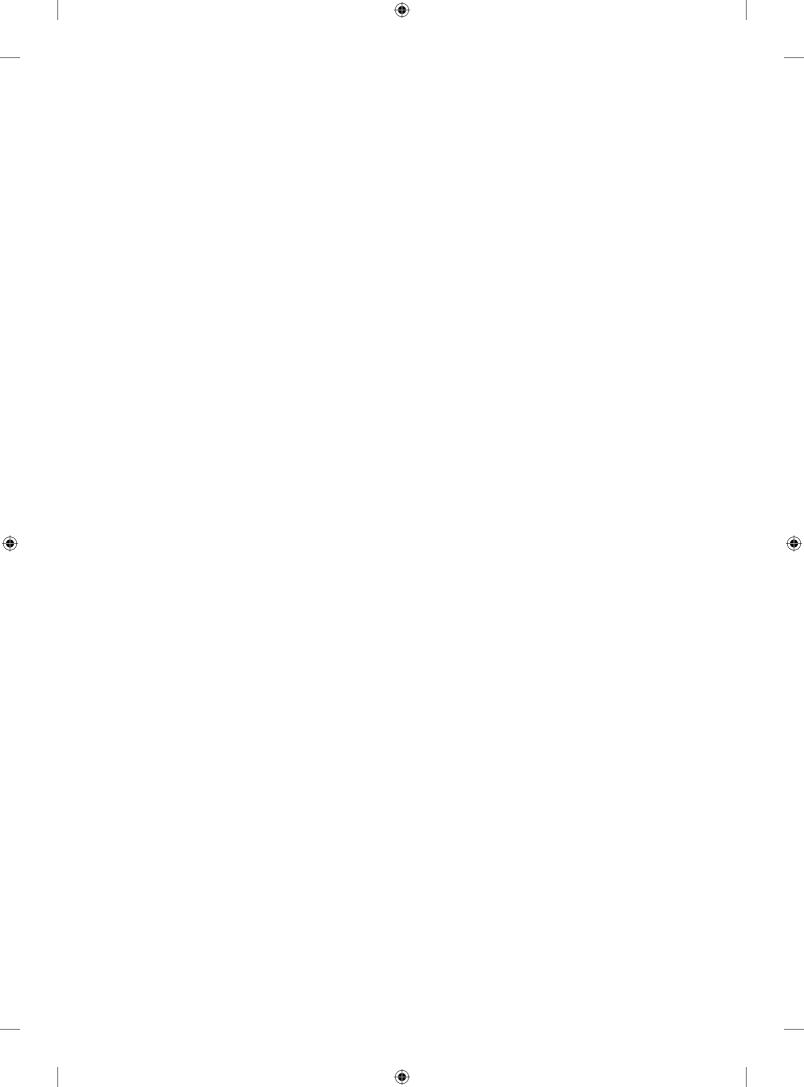
## 3D supported mode (Only 3D model)

Input	Signal	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Playable 3D video format
HDMI	720p	1280x720	89.9 / 90 / 75	59.94 / 60 / 50	Frame packing (720 60p)
			45 / 37.5	60 / 50	Side by Side(half), Top & Bottom
	1080i	1920X1080	33.7 / 28.125	60 / 50	Side by Side(half), Top & Bottom
	1080p	1920X1080	53.95 / 54	23.98 / 24	Frame packing (1080 24p)
			67.5 / 56.3	60 / 50	"Side by Side, Top & Bottom, Single Frame Sequential"
			27	24	Side by Side(half), Top & Bottom
			33.7	30	Side by Side(half), Top & Bottom
USB	1080p	1920X1080	33.75	30	Side by Side, Top & Bottom, MPO(Photo), JPS(Photo)
	Signal				Playable 3D video format
DTV	720p, 1080i				Side by Side, Top & Bottom













Record the model number and serial number of the  ${\sf TV}$ 

Refer to the label on the back cover and quote this information to your dealer when requiring any service.

MODEL	

SERIAL \_\_\_\_\_

(Only DTV)





