

LED LCD TV DVD COMBINATION USER'S MANUAL

MODEL
LED24G45RQD

Please register your product at www.rca.com
Please keep your sales receipt and keep the record of the serial number and the date of purchase in order to receive warranty parts and service. The serial number is located at the back of the TV.

Serial Number

Date of Purchase

RCA
MADE FOR TODAY

Safety Precautions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water. For example, do not use near a laundry tub, in a wet basement, or near a swimming pool, and the like.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Slots and openings in the cabinet back or bottom are provided for ventilation, to ensure reliable operation of the TV and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the TV on a bed, sofa, rug, or other similar surface.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- A TV and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV and cart combination to overturn.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- For added protection for this TV receiver during a lightning storm, or when it is left unused for long periods of time, unplug it from the wall outlet and disconnect antenna or cable system.
- This will prevent damage to the TV due to lightning and power line surges.
- 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.
- This TV should be operated only from the type of power supply indicated on the rating label.
- If customer is not sure the type of power supply in your home, consult your appliance dealer or local power company. For TV remote control battery power, refer to the operating instructions.
- The TV set shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the TV set.

17. Never push objects of any kind into this TV through openings as they may touch dangerous voltage or other electrical parts that could result in fire or electric shock. Never spill liquid of any kind into the TV.

18. Unplug the TV from the wall outlet before cleaning. Do not use liquid or aero cleaners. Use a damp cloth for cleaning.

19. This TV should never be placed near or over a radiator or heat resource. This TV should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

20. Do not place this TV on an unstable cart, stand, tripod, bracket, or table. The TV may fall, causing serious injury to someone, and serious damage to the appliance.

21. Do not attempt to service this TV by yourself because opening or removing covers may expose you to dangerous high voltage or other hazards. Refer all servicing to qualified service personnel.

22. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

23. WARNING: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

24. To reduce the risk of electric shock, the grounding of center pin of plug must be maintained.

25. If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA NO.70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrodes. (See figure A)

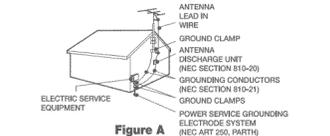


Figure A

Safety Strap
Caution: Pushing, pulling or climbing on the TV may cause the TV falling. Do not let children climb or hang on the TV. Always place the TV on a sturdy, level, stable surface that can hold the weight of TV. And if possible, secure the TV according to the instruction below (Note: The fastening components such as screws are not supplied with TV).

Step one: Insert the M6 mounting screws into the upper two wall mounting screw holes and fasten them (Figure B).

Step two: Insert anchors to wall and connect the bolts and anchors with ropes or chains (Figure C).



Figure B

Figure C

Preparation for Your New TV

Before Turning On TV

Check Accessories

Check the accessories that are packed with your TV. (refer to Quick Start Guide)

Setup TV Table Stand

Please refer to Quick Start Guide to carry out stand installing.

Select TV Location

Select a flat, stable table to place your TV set. Please follow the safety instructions when placing the TV.

Connection and Using

After placing your TV properly, you can connect the TV with power supply and cable components. For further information, see page 5 to page 6.

TV Signal Connection

The first step in connecting your TV is obtaining the signal. Your TV LED24G45RQD has a back panel, which allows you to receive analog and/or digital television channels via ANT/CABLE jack. Before connecting your TV, determine using an antenna or a cable service to obtain the signal.

A. Antenna

Connect the antenna to TV via coaxial cable on ANT/CABLE jack of the back panel. You are ready to receive air local digital and analog channels.

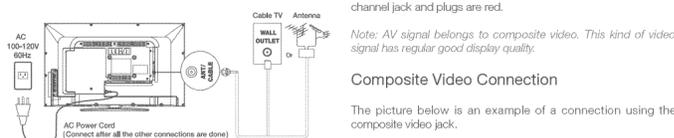
B. Cable TV service

Connect the cable TV wall jack to TV via coaxial cable on ANT/CABLE jack of the back panel. You are ready to receive off-air local digital and analog channels.

C. Set-Top Box

If you use a set-top box, you may need to call your cable company or satellite service provider, which use a special connection, please refer to the user's guide of set-top box.

Note: Do not plug the AC cord until you have accomplished all the connections. This TV does not support QAM under cable channel search.



AC Power Cord (Connect after all the other connections are done)

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Cable Connections

Choose Your Connections

TV LED24G45RQD supports various connections to other devices (such as DVD, VCR, Set-top box, etc.). Please follow the table to choose the cables which adapt to your device.

Jacks	Cables	Further Information
COMPOSITE L-AUDIO-R	Video/Audio cable	See the below
COMPONENT Y, Pb, Pr L-AUDIO-R	Component video cable	Go to page 6
HDMI/MHL	HDMI cable MHL cable	Go to page 6
SOUND PC VGA	Audio cable with 3.5mm terminal VGA cable	Go to page 6

Note: HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Caution: Unplug the AC cord when you connect other devices to TV.

Side Panel Connections

Connecting AV Composite device

(Good Video Quality)

Composite connector will be shared with Component Y connector. To connect a composite AV device, such as a DVD player, follow these steps:

- Connect the COMPOSITE jack on the side of TV to the video output jacks of device via video cable (yellow).
- Connect the L-AUDIO-R jacks on the side of TV to the audio output jacks of device via audio cable. Notice the left channel jack and plugs are white and the right channel jack and plugs are red.

Note: AV signal belongs to composite video. This kind of video signal has regular good display quality.

Composite Video Connection

The picture below is an example of a connection using the composite video jack.

Child Safety Guide

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:



The Issue

The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases.

However, flat panel displays are not always supported on the proper stands of installed according to the manufacturer's recommendations.

Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or cats may fall over and cause injury.

Tune Into Safety

- One size does NOT fit all. Follow the manufacturer's recommendation for the safe installation and use of your flat panel display.

- Carefully read and understand all enclosed instructions for proper use of this product.

- Don't allow children to climb on or play with furniture and television sets.

- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.

- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.

- Care should be taken to route all cords and cables connected to the panel display so that they cannot be pulled or grabbed by curious children.

This Manufacturer Cares!

The consumer electronics industry is committed to making home entertainment enjoyable and safe.

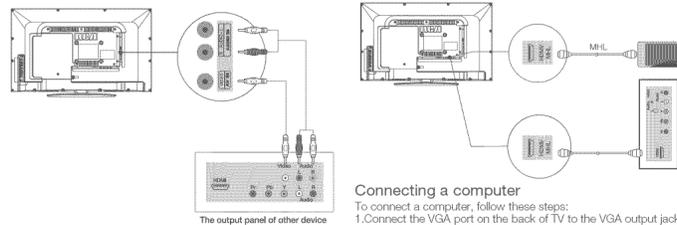
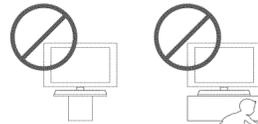
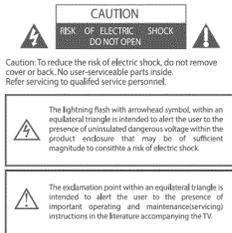
Wall Mounting : IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS :

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.

unsure, contact a professional installer.

- A minimum of two people are required for installation. Flat panel displays can be heavy.

Caution and Warning



Connecting YPbPr Component device (Better Video Quality)

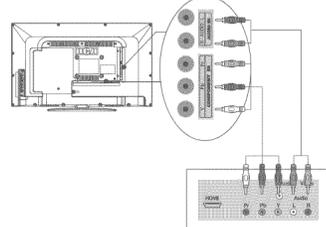
To connect a component device, such as a DVD player, follow these steps:

- Connect the COMPONENT IN Y/Pb/Pr jack on the side of TV to the video output jacks of device via video cable (green, blue and red).
- Connect the L-AUDIO-R jacks on the side of TV to the audio output jacks of device via audio cable. Notice the left channel jack and plugs are white and the right channel jack and plugs are red.

Note: YPbPr jacks are component video. This kind of video signal has better display quality.

Component Video Connection

The picture below is an example of a connection using the component video jack.



Connecting HDMI device (Best Video Quality)

To connect a HDMI device, such as a DVD player, please Connect the HDMI/MHL jack on the side of TV to the output jacks of device via HDMI cable.

- Connect the HDMI/MHL jack on the side of TV to the MHL port of Mobile High-Definition Link via MHL cable.
- Connect the L-AUDIO-R jack on the side of TV to the audio output jack of computer with audio cable (dual-channel RCA jacks to 3.5mm stereo jack or the L-AUDIO-R jack).

Note: 1. HDMI (High-Definition Multimedia Interface) is a compact audio/video interface for transmitting uncompressed digital data. It carries the audio and video signal via the same cable and has the best display quality.

HDMI Connection

The picture below is an example of a connection using the HDMI video jack.

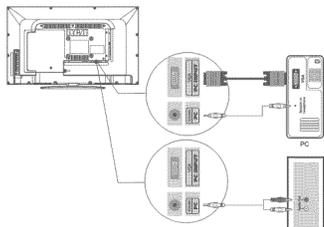
Connecting a computer

To connect a computer, follow these steps:
1. Connect the VGA port on the back of TV to the VGA output jack of device via D-sub 15-pin cable.
2. Connect the PC SOUND jack on the back of TV to the audio output jack of computer with audio cable (3.5mm).

Note: If you want to use your TV as a monitor, please notice that the maximum resolution for LED24G45RQD is 1920*1080. Please set the computer graphic correctly.

PC Connection

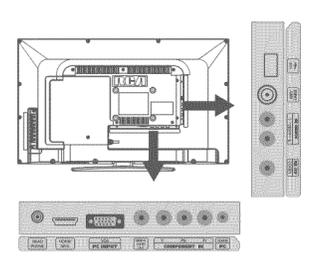
The picture below is an example of a connection using your TV as a PC monitor.



How to Obtain Various Kinds of Input Sources

After connection is done, press INPUT button on remote control or TV top panel to choose the input source you need. See page 7, Basic Operation of TV.

TV Jacks Explanation



Guía de seguridad para niños

¡Muchas gracias por su uso del presente producto! Cuando usted disfruta de su nuevo producto, por favor tenga en cuenta los consejos de seguridad:



Posibles Problemas

- La experiencia de entretenimiento de cine en casa es una tendencia creciente y los grandes monitores de pantalla plana son muy populares.

embargo, los monitores de pantalla plana no se han instalado siempre en los soportes adecuados o instalado de acuerdo con las recomendaciones de fabricante.

- Los monitores de pantalla plana que se han instalado inadecuadamente en tocadores, estanterías, estantes, escritorios, oradores, baúles o carros se pueden caer y causar el daño corporal.

- Recuerde que los niños pueden llegar a ser excitados al ver una programación, especialmente en el monitor de pantalla plana "más grande que vida". El cuidado se tiene que empezar por poner o instalar el monitor donde no se puede empujar, detener al cuidado del camino ni echar abajo.

¡Al Fabricante le Importa

- La industria electrónica del consumidor está comprometida a hacer el entretenimiento de casa agradable y seguro.

Ajustar Hasta Seguridad

- Un tamaño fijo NO es adecuado para todos, siga las recomendaciones de fabricante para la instalación segura y el uso de su monitor de pantalla plana

- Lea con cuidado y entienda todas las instrucciones adjuntas para el uso propio de este producto.

- No permita a los niños a subir al equipo o jugar con muebles y televisores.

- No cloque los monitores de pantalla plana en el mueble que se puede usar fácilmente como escalón, así como una cómoda.

- Recuerde que los niños pueden llegar a ser excitados al ver una programación, especialmente en el monitor de pantalla plana "más grande que vida". El cuidado se tiene que empezar por poner o instalar el monitor donde no se puede empujar, detener al cuidado del camino ni echar abajo.

- El cuidado se tiene que empezar por encaminar todos los cordones y cables conectados al monitor de pantalla plana para que no se puedan tirar o agarrar conectados al monitor de pantalla plana para que no se pueden tirar o agarrar por los niños curiosos.

Montaje de Pared: SI USTED DECIDE A MONTAR SU MONITOR DE PANTALLA PLANA LA PARED, SIEMPRE

- Use una montura que se ha recomendado por un laboratorio independiente (como UL, CSA, ETL).
- Siga todas las instrucciones ofrecidas por el fabricante de monitor y montaje de pared.
- Si usted tiene cualquier duda sobre su habilidad para instalar seguramente su monitor de pantalla plana, contacte a su distribuidor para la instalación profesional.
- Compruebe que la pared adonde se está montando el monitor es adecuada. Algunos montajes de la pared no son diseñados para ser montados a paredes con tachones de acero o la vieja construcción de bloque de ceriza. Si usted está inseguro, contacte a un instalador profesional.
- Por lo menos dos personas se requieren para la instalación. Los monitores de pantalla plana puede ser pesados.

FCC Notice

Fcc Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no Guarantee that interference will not occur in a particular installation.

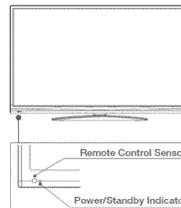
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Device complies with FDA radiation performance standards, 21 CFR subchapter. Caution: (Invisible) Laser Radiation when open. Do not stare into beam.

Front Panel

About remote control working distance and angle, see the quick start guide.



Power/Standby Indicator: Light up in red when the TV is in standby mode. Light up when the TV is on.

Remote Control Sensor: Remote control IR sensor, which receives infrared ray sent by remote control.

Codes for Cox Communications: 0178

Codes for Comcast: 10178

Codes for Dish Network: 627

Codes for Fios Verizon: 0205, 0057, 0493, 0775

Basic Operations

Turning On and Off

Connect the AC cord to power the LED LCD TV. At this time the TV will enter standby mode and power indicator will turn red. Use Power button (P) on the top panel of TV or on the remote control to turn on the TV. After switching off the TV for 5 seconds, you can turn on TV again.

Choosing TV Channel

Tuning To Analog Channels

An analog channel has a channel number beginning with "A". Input the digital number with numeric buttons directly and press OK button to confirm. For example, to watch analog channel "A51", press "5", "1", "OK" on remote control in sequence.

Note: Although there is no analog TV signal available in America, we reserve ATV functions for some expandable use.

Tuning To Digital Channels

A digital channel has a channel number beginning with "D". Input the main digital number with numeric buttons directly, then press " " button on remote control, and input the sub number at last. For example, to watch analog channel "D31-1", press "3", "1", " ", "1", "OK" on remote control in sequence.

Changing Channels Directly You can use CH button to increase channel number and CH to decrease channel number.

When no OSD (On Screen Display) is used, the up/down arrows can also work as CH/CH buttons.

Selecting Input Source

Press INPUT button on remote control to display Source Select list. Use up/down arrows to highlight the source you need and press OK to confirm.

Source Select
TV
AV
DVD
Component
HDMI
PC
USB
▶ Mute
▶ Sleep

Channel Bar

Press the OK button on the remote control, when OSD (on-screen display) not used, the channel bar will appear on the Bottom of the screen. It displays the current channel's information. The following list describes the items on the channel bar.

D14-1	ATSC-1	A2	480i
Air	English	Air	Stereo
43	Jan-01 07:10 Sat	CC	Jan-01 07:10 Sat
DTV		ATV	

D14-1/A2 If the channel is analog, A is displayed. If it's a digital channel, D is displayed. For example, in the pictures above, A2 is an analog channel, and DSD-1 is a digital channel (-1 is a sub-channel number).

ATSC-1 Display the current channel number

English/Stereo Displays whether the current channel is being broadcasted in stereo or mono. If the current channel is digital, this space will be SAP (Second Audio Program) language.

480i/480i Displays the signal resolution.

4:3/CC Displays the screen aspect ratio. Display the CC status (on or off).

Jan-01 07:10 Sat Displays current program date and time.

English/Stereo	Displays whether the current channel is being broadcasted in stereo or mono. If the current channel is digital, this space will be SAP (Second Audio Program) language.
480i/480i	Displays the signal resolution.
4:3/CC	Displays the screen aspect ratio. Display the CC status (on or off).
Jan-01 07:10 Sat	Displays current program date and time.

Adjusting Volume

Press the VOL+ /VOL- button on the remote control to adjust the volume. If you want to switch sound off, press MUTE. When OSD (On Screen Display) is not used, the arrows left/right can also work as VOL-/VOL+ buttons.

EPG (Electronic Program Guide)

Press EPG button on the remote control, the electronic program guide will appear in the center of screen. The electronic program guide gives the TV program playing project. You can use left/right arrows to switch pages.

OSD Menu Operations

Auto Scan	Execute an auto channel search.
Show / Hide	Enter <i>sub-menu</i> and press <i>OK</i> to show or hide the TV channel.
Channel List	Displays a channel list. It shows the current channels. Press <i>OK</i> to go to TV channel directly in sub menu.
Signal Type	Select your TV signal type: Air or Cable.
DTV Signal (In DTV Mode)	Display how strong your TV signal is.

Use up/down to choose the function you need, press *OK* or right arrow to adjust or enter a sub-menu. The detailed explanation are shown below.

Auto Scan
Execute an auto channel search.
Show / Hide
Enter *sub-menu* and press *OK* to show or hide the TV channel.

Channel List
Displays a channel list. It shows the current channels. Press *OK* to go to TV channel directly in sub menu.

To use OSD menu system, press *OK* button on remote control, then use left/right arrow to highlight an option from QUICK, CHANNEL, PICTURE, AUDIO, TIME, SETUP or LOCK and press *OK*/down button.

Press the up and down arrow to move to a different option within each menu. If necessary, press *OK* or right arrow to display the choices of the option you've highlighted. If available, use the text at the bottom of each screen for help. To return to the previous menu, press the MENU button.

To exit the OSD menu:

- Press the HOME button. The menu will clear from the screen.
- Press the MENU button repeatedly until the menus disappear.

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Show / Hide	Enter <i>sub-menu</i> and press <i>OK</i> to show or hide the TV channel.
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- Press the HOME button. The menu will clear from the screen.
- Press the MENU button repeatedly until the menus disappear.

Why does channel search find a lot of channels, but when I try to tune to them, there's nothing there?

Some channels don't carry programming, such as video On Demand. When channels are unavailable, your TV screen is blank or appears like snow. You probably want to remove these channels from your channel list. Remove these in the Channel List Menu. Go to page 8 for more information.

Why does it take a long time when I search the channels at first time?

If you have both analog and digital channels, the TV is looking for all available channels in the channels list. If you only have digital channels, the TV is also searching for scrambled channels, non-scrambled channels, and each sub-channel of that digital channel.

Troubleshooting

Identifying Problems

If there are any problems when using the product, please consult the list below. If the list does not solve the problem, call our Customer Service Center immediately.

TV Problems

The TV can't be turned on.

Make sure the AC cord is plugged in.

- Check the wall outlet, make sure the AC output works normally and stably.
- The side panel may be locked (disabled). Use the remote control to turn on the TV.
- Select the Keypad Lock function in the PARENTAL control Menu and press *OK* to uncheck the locking status.

There is no picture or sound but the TV is on and there is a "No Signal" sign on screen.

- Are you trying to use an input source with no device connected to it? For using other video/audio device, make sure the external

Quick Menu

The Quick Menu contains menus and provides you a quick way to approach the main settings that may be most possibly and frequently approached. Press MENU on the remote and then you will see the Quick Menu showing on your screen. Press the down button to proceed the Quick Menu. Use up/down to choose the function you need, press *OK* to enter a sub-menu and press left/right arrow to adjust a sub-menu.

Picture Mode	
Sound Mode	
Closed Caption	
Sleep Timer	◀ Off ▶
Channel List	
Move	◀ Select ▶ Return

Use up/down to choose the function you need, press *OK* or right arrow to adjust or enter a sub-menu. The detailed explanation are shown below. If available, use the text at the bottom of each screen for help.

Picture Mode
Choose the preset visual mode of your TV: Standard, Movie, User, Dynamic, Power Saving,(Only in User mode you can adjust Brightness, Contrast, Color, Tint and Sharpness. Changes to Power Saving mode can decrease the power consumption.)

- Brightness:** Adjust the brightness of picture.
- Contrast:** Adjust the contrast of color.
- Color:** Adjust the richness of color.
- Tint:** Adjust the balance between red and green level (only available in NTSC signal).
- Sharpness:** Adjust the sharpness level of picture.

Color Mode
This option allows you to select one of three automatic color adjustments: Cool for a cooler palette of picture colors, Normal or Warm for a redder palette of color.

Screen Size
Screen Size: Select a screen aspect ratio. (Available ratio: Wide, Cinema, Zoom, and Normal.) Please choose the ratio that applies to your video signal format best.

Noise Reduction
Set noise reduction as Off/low/Medium/High.

Dynamic Contrast
Set dynamic contrast Off/low/Medium/High.

Video Style
If you connect the HDMI(DVI) port of PC to HDMI jack of the TV and the video signal is 1080p, please choose the **compatible video style:** Video, Graphic.

Noise reduction helps to reduce the picture "static" or any type of interference. This feature is especially useful for providing a clearer picture in weak analog signal conditions.

PC Settings (only available in PC mode)

- Auto Adjust: Adjust the PC picture display automatically.
- Horizontal Position: Adjust the horizontal position of picture.
- Vertical Position: Adjust the vertical position of picture.
- Clock: Adjust the clock of picture.
- Phase: Adjust the phase of picture.
- Reset: Reset all the PC picture settings to factory default.

Audio Menu
The Audio Menu lets you adjust audio output. To access the Audio Menu, press MENU on the remote, and then select Audio from the Main Menu. Press *OK*/down button to proceed to Audio menu. Use up/down to choose the function you need, press *OK* or right arrow to adjust or enter a sub-menu.

Sound Mode
Choose the preset sound mode of your TV: User mode you can adjust Bass, Treble, Balance.

- Bass: Adjust the bass component of TV sound.
- Treble: Adjust the treble component of TV sound.
- Balance: Adjust the balance between the left and right channel.

Audio Language
Select digital TV audio language type: English, French or Spanish (only available for DTV channel).

Analog Audio Output
Select analog TV audio sound type: Stereo, Mono or SAP (only available in TV mode).

Press MENU on the remote. Select Picture from the Main menu. Press the *OK*/down button to proceed to PICTURE menu.

Picture Mode	
Color Mode	◀ Warm ▶
Screen Size	◀ Wide ▶
Noise Reduction	◀ Low ▶
Dynamic Contrast	◀ Low ▶
Video Style	◀ Video ▶
Select	◀ Return

Use up/down to choose the function you need, press *OK* or right arrow to adjust or enter a sub-menu. The detailed explanation are shown below. If available, use the text at the bottom of each screen for help.

Picture Mode
Choose the preset visual mode of your TV: Standard, Movie, User, Dynamic, Power Saving,(Only in User mode you can adjust Brightness, Contrast, Color, Tint and Sharpness. Changes to Power Saving mode can decrease the power consumption.)

- Brightness:** Adjust the brightness of picture.
- Contrast:** Adjust the contrast of color.
- Color:** Adjust the richness of color.
- Tint:** Adjust the balance between red and green level (only available in NTSC signal).
- Sharpness:** Adjust the sharpness level of picture.

Color Mode
This option allows you to select one of three automatic color adjustments: Cool for a cooler palette of picture colors, Normal or Warm for a redder palette of color.

Screen Size
Screen Size: Select a screen aspect ratio. (Available ratio: Wide, Cinema, Zoom, and Normal.) Please choose the ratio that applies to your video signal format best.

Noise Reduction
Set noise reduction as Off/low/Medium/High.

Dynamic Contrast
Set dynamic contrast Off/low/Medium/High.

Video Style
If you connect the HDMI(DVI) port of PC to HDMI jack of the TV and the video signal is 1080p, please choose the **compatible video style:** Video, Graphic.

Noise reduction helps to reduce the picture "static" or any type of interference. This feature is especially useful for providing a clearer picture in weak analog signal conditions.

PC Settings (only available in PC mode)

- Auto Adjust: Adjust the PC picture display automatically.
- Horizontal Position: Adjust the horizontal position of picture.
- Vertical Position: Adjust the vertical position of picture.
- Clock: Adjust the clock of picture.
- Phase: Adjust the phase of picture.
- Reset: Reset all the PC picture settings to factory default.

Audio Menu
The Audio Menu lets you adjust audio output. To access the Audio Menu, press MENU on the remote, and then select Audio from the Main Menu. Press *OK*/down button to proceed to Audio menu. Use up/down to choose the function you need, press *OK* or right arrow to adjust or enter a sub-menu.

Sound Mode
Choose the preset sound mode of your TV: User mode you can adjust Bass, Treble, Balance.

- Bass: Adjust the bass component of TV sound.
- Treble: Adjust the treble component of TV sound.
- Balance: Adjust the balance between the left and right channel.

Audio Language
Select digital TV audio language type: English, French or Spanish (only available for DTV channel).

Analog Audio Output
Select analog TV audio sound type: Stereo, Mono or SAP (only available in TV mode).

Press MENU on the remote. Select Picture from the Main menu. Press the *OK*/down button to proceed to PICTURE menu.

Auto Scan
Execute an auto channel search.
Show / Hide
Enter *sub-menu* and press *OK* to show or hide the TV channel.

Channel List
Displays a channel list. It shows the current channels. Press *OK* to go to TV channel directly in sub menu.

To use OSD menu system, press *OK* button on remote control, then use left/right arrow to highlight an option from QUICK, CHANNEL, PICTURE, AUDIO, TIME, SETUP or LOCK and press *OK*/down button.

Press the up and down arrow to move to a different option within each menu. If necessary, press *OK* or right arrow to display the choices of the option you've highlighted. If available, use the text at the bottom of each screen for help. To return to the previous menu, press the MENU button.

To exit the OSD menu:

- Press the HOME button. The menu will clear from the screen.
- Press the MENU button repeatedly until the menus disappear.

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Enter *sub-menu* and press *OK* to show or hide the TV channel.

Channel List
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To use OSD menu system, press *OK* button on remote control, then use left/right arrow to highlight an option from QUICK, CHANNEL, PICTURE, AUDIO, TIME, SETUP or LOCK and press *OK*/down button.

Digital Audio Output

Set the audio output type as Off, PCM or Raw. Please set this option according to your power amplifier.

Surround

Creates a 3D sound surround from standard stereo material, with deep and rich enhancement.

Audio Only
Press *OK* button to activate audio only mode. The TV will output only sound and the LED/LCD panel will be turned off. To restore normal playing, hold *POWER* button for three seconds.

Auto Volume
Set auto volume control on/off.

Equalizer Settings
The seven-band graphic equalizer allows you to adjust the audio frequency settings. You can select one of the equalizer presets (Off, Pop, Rock, Jazz) or create your own personal preset (User). Press the left or right arrow to select the frequency (100Hz, 250Hz, 500Hz, 1KHz, 2KHz, 4KHz, 10KHz), you want to adjust. Use the up or down arrow to adjust.

Time Menu

The Time Menu lets you change the TV time settings. To access the Time Menu, press MENU on the remote, and then select Time from the Main Menu.

Use up/down to choose the function you need, press *OK* or right arrow to adjust or enter a sub-menu. explanation are shown below.

Sleep Timer
Set the sleep timer(Off, 5, 10, 15, 30, 60, 90, 120, 240 Min). The TV will automatically enter standby mode after times up.

Time Zone
Showing the country's time zone, you can Set Time zone Off, Eastern, Central, Mountain, Pacific, Alaska, Hawaii, Samoa, Newfoundland, Atlantic.

Auto Clock
Select auto clock on/off. Auto clock helps you synchronize your TV time to standard time (from DTV signal).

Clock
Set your TV time manually (needs to turn off auto clock), press up/down and left/right arrow to config the current time.

Wake Up
Set the Wake Up time for your TV. after enters menu, you can use the up/down and left/right arrow to adjust it.

OSD Display Duration
Set the time how long to display OSD menu(5 Sec, 15 Sec, 30 Sec, 45 Sec, 60 Sec).

Setup Menu
The Setup Menu lets you config the TV with your preferences. Select SETUP from the Main Menu. Press *OK*/down button to proceed to SETUP menu. Use up/down to choose the function you need, press *OK* or right arrow to adjust or enter a sub-menu. The detailed explanation are shown below.

Menu Language
To choose your menu language, press the left/right arrow until the language you need appears. **Available languages:** English, French and Spanish.

Menu Transparency
To choose your menu transparency mode, press the left/right arrow until the transparency you need appears: 0%, 25%, 75%, 100%.

Closed Caption
Press *OK* to enter closed caption sub-menu, the detail as follow:

Change PIN	
Input Block	
V-CHIP	
Keypad Lock	<input type="checkbox"/>
Clear Channel List	Execute
Remote	◀ Off ▶
Change your 4-digit PIN	

Parental Control
The Lock Menu enables you to lock program with special content, panel key board and input source, Press MENU on the remote and choose Lock Menu from the Main Menu. Press the down button to proceed the Lock Menu. The menu image and explanation are shown below.

Change PIN
Press *OK* to enter closed caption sub-menu, the detail as follow:

Input Block
Press *OK* to enter closed caption sub-menu, the detail as follow:

V-CHIP
Press *OK* to enter closed caption sub-menu, the detail as follow:

Keypad Lock
Press *OK* to enter closed caption sub-menu, the detail as follow:

Clear Channel List
Press *OK* to enter closed caption sub-menu, the detail as follow:

Remote
Press *OK* to enter closed caption sub-menu, the detail as follow:

Change your 4-digit PIN
Press *OK* to enter closed caption sub-menu, the detail as follow:

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Press *OK* to enter closed caption sub-menu, the detail as follow:

Keypad Lock
Press *OK* to enter closed caption sub-menu, the detail as follow:

Clear Channel List
Press *OK* to enter closed caption sub-menu, the detail as follow:

Remote
Press *OK* to enter closed caption sub-menu, the detail as follow:

Change your 4-digit PIN
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Keypad Lock
Press *OK* to enter closed caption sub-menu, the detail as follow:

Clear Channel List
Press *OK* to enter closed caption sub-menu, the detail as follow