



## Channel Bar

Press the OK button on the remote control, when OSD (on-screen displays) 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	
Air 4:3	English 480i Jan-01 07:10 Sat	Stereo CC 480i 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 D50-1 is a digital channel (-1 is a sub-channel number).

**ATSC-1** Displays the current TV signal type. Displays whether the current channel is being broadcasted in stereo or digital. If the current channel is digital, this space will be SAP (Second Audio Program) language.

**480i/480i** Displays the signal resolution.

**43/CC** Displays the screen aspect ratio. Displays the CC status (on or off).

**Jan-01 07:10 Sat** Displays current program date and time. If the channel is Dolby Digital AC-3, the double-D symbol is a sub-channel number.

*Note: Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.*

## 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 on the screen. The electronic program guide will allow you to view the TV program playing project. You can use left/right arrows to switch pages.

## OSD Menu Operations

### Adjust the OSD Screen

The OSD (On Screen Display) menu enables you to approach to the TV functions.

To use OSD menu system, press MENU 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.

### To exit the OSD menu:

- Press the **0** button. The menu will clear from the screen.
- Press the MENU button repeatedly until the menus disappear.

### 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. Picture Mode, Sound Mode, Closed Caption, Sleep Timer, and Channel List.

## Channel Menu

The Channel Menu enables you to search, view and edit channels. It is available in TV mode only.

## 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.

### 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 static 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" 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 device works normally, then press INPUT and choose the right input source. The Signal Type option may be set incorrectly. Go to page 6 for detailed instructions. The channel may be blank. Try to search the channel again or change another channel.

### The sound is fine, but the picture is poor.

If you've only got black and white pictures from external device that you've connected to your TV, maybe it is due to the video cables is not connected well, or they are connected wrongly. Check the connection stability first, then check the cconnection. For AV input, the yellow video cable connects to the yellow Video In jack on the side of your TV. For Component input, the three Y, Pb, Pr video cables (red, blue, and green) should be connected to the corresponding input jacks on the side of your TV. Check the antenna connections. Make sure all of the cables are firmly connected to the TV jack on side of your TV. Try adjusting the color features to improve.

### There is no sound, but the picture is fine.

The sound might be muted. Try pressing the MUTE button to restore sound.

For using AV or Component, remember to connect the device's left and right audio output correctly. The left channel cable is white and the right channel cable is red. Please match the cables and jacks according to their colors. The sound settings may not be set correctly. Go to page 9 for more information.

If your audio source has only one jack or is a mono(audio source), make sure you have plugged the connection into the Audio In L jack (white) on the TV.

### The buttons on the side panel don't work.

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. Unplug the TV from the AC power for 10 minutes and then plug it back. Turn the TV on and try again.

### The TV turns off unexpectedly.

The electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn the TV on again. If this happens frequently, the voltage in your house may be abnormal. If the other electronic equipment in your home can't work normally, consult a qualified service personnel.

### Can't select a certain channel.

The channel may be blocked or not approved in the PARENTAL control Menu. The channel may be skipped in channel list in CHANNEL Menu. Check the blocking and skipping status of channel.

### The stereo sound performance is bad.

It may be a weak station. Use the AUDIO Menu and set Analog Sound as Mono.

### A black box appears on the screen.

Closed captioning might be on. Check Closed Caption in the SETUP Menu. Go to page 10 for more instructions.

### Problems with the HDMI Connection.

Make sure the HDMI device (DVD, video game, etc.) is turned on and the cables are firmly connected. If problems still occur, turn off your device and reconnect it. Reset the power by unplugging the power cord and plugging it again.

If a "No Signal" message appears on screen , the HDMI device isn't responding. Contact the manufacturer of the HDMI device

CHANNEL					
Auto Scan					
Show / Hide					
Channel List					
Signal Type					
Air					
D/TV Signal					
◀ Good ▶					
Move					
Select					
Return					

### Auto Scan

Execute an auto channel search.

### Show / Hide

Enter sub-channel 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.

### Signal Type

Select your TV signal type: Air or Cable.

### DTV Signal (in DTV Mode)

Display how strong your TV signal is.

## Picture Menu

The Picture Menu contains menus and controls to configure the way the picture appears. The Picture Menu options apply to the video for the main TV and VIDEO INPUT selections. All picture options can be applied to each input.

PICTURE				
Picture Mode				
Color Mode				
Screen Size				
Noise Reduction				
Dynamic Contrast				
Video Style				
Move				
Select				
Return				

### 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.)

### Color Mode

This option allows you to select one of three automatic color adjustments: Cool for a bluer 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. *Note: 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.*

### 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.

### Other channel.

If you have black bars on each side of your picture (which means the TV can not display a full-screen image), the device you connected might have a switch or a menu option allowing you to change the picture quality output that will fix this. Choose either 720p or 1080i.

### The Remote control doesn't work.

There may be an AC power failure or the power cord unplugged in. Something might be blocking between the remote control and the remote sensor on the front panel of the TV. Make sure there is a clear path. The remote may not be aimed directly at the TV. The batteries in the remote may be weak, dead, or installed incorrectly. The new batteries in the remote may be installed backwards.

### You are experiencing problems with V-Chip/Parental Controls.

If the rating limits don't work, you must lock the settings. Go to the Main Menu (press MENU on your remote), select PARENTAL control to check the settings.

### What else can I do?

If you are unable to solve the problem in the Troubleshooting section and nothing has fixed your problem, try rebooting your TV. Note that after a reboot, you may need to run your TV through the setup process again. To reboot, unplug the power cord from the wall outlet or power strip. Keep your TV unplugged for about 5 minutes. Then plug in the TV and turn it on. See if the problem is fixed. If the problem remains, then please visit the Customer Support Menu at www.rca.com or updated FAQs or contact RCA Customer Support at the support number provided in your Warranty card.

## Wall Mounting Unit Specification

100 mm
200 mm

*Note*

A. The wall mount is not contained in the accessories sold with television. We only provide the installing specifications but not the wall mount itself. If you need the mount, please consult with the local dealer for a VESA wall mount.

B. We strongly suggest to set the wall mount with equipments of specification we ordered. If not, inappropriate installing may cause damage to device or people.

C. We suggest that you keep your TV at least 2.36 inches(60mm) from the wall to prevent cable interference.

Model	Unit Dimension (unit:mm)	Screw
LRK20G45R0	VESA 200 x 100	M6 screws, length 10mm

- Do not set up the wall mount by yourself. Please contact qualified professionals for installation.
- The TV should not be mounted on walls or surfaces which have an angle more than 10 degrees with vertical direction. Otherwise the TV set may fall.
- The walls for mounting must have enough strength to hold the whole weight of TV set. For example, concrete wall and brickwork are eligible. Do not place the mount on soft walls such as earth wall and plasterboard.
- If spare parts of different specifications (such as screws) are used during mounting, consult with qualified professionals to make sure these parts are safe and effective.
- Before attaching the base to wall, ensure the holes for anchors are in keeping with the installing rules. Otherwise there may exist some potential problems.

## Audio Menu

The Audio Menu lets you adjust audio output.

AUDIO				
Sound Mode				
Audio Language				
Analog Audio Output				
Digital Audio Output				
Surround				
Audio Only				
Move				
Select				
Return				

### Sound Mode

Choose the preset sound mode of your TV: Standard, Soft, User, Dynamic. Only in User mode you can adjust Bass, Treble, Balance.

### 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, SAP or Mono (only available in TV mode).

### 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).

## Time Menu

The Time Menu lets you change the TV time settings.

TIME				
Sleep Timer				
Time Zone				
Auto Clock				
Clock				
Wake Up				
OSD Display Duration				
Move				
Select				
Return				

### Sleep Timer

Set the sleep timer(Off, 5, 10, 15, 30, 60, 90, 120, 180, 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).

## Product Specification

Model	LRK20G45R0
Diagonal Display Size	31.5 inches
Television System	American TV standard ATSC/NTSC system
Channel Coverage	VHF : 2-13 UHF : 14-69 CATV : 1-135 Storage Temperature is 20° - +40° C , +4° - +140° F Operating Temperature is 0° C - +50° C +32° F - +122° F Storage Humidity : Less than 85%RH (No condensation)
Temperature	AV x 1
Humidity	Operation Humidity : Less than 80%RH (No condensation)
Power Supply	AC 100-120V, 60Hz HF input Cable/Antenna x 1
Connection Interface	Video input Component x 1 HDMI x 3 (HDMI3 is already connected with Roku Streaming stick) Audio input AV x 1 Headphone x 1, Digital Audio Out x 1
Resolution	1920 x 1080
Component/HDMI mode	480i, 480p, 720p, 1080i, 1080p With stand 28.9" W x 18.5" H x 3.2"D Without stand 28.9" W x 17.4" H x 3.2"D
Dimensions	With stand 12.6(LBS)5.7(KGS) Without stand 11.7(LBS)5.3(KGS)
Weight	less than 42W
Power Consumption	

*Note:* Specifications and cabinet design are subject to change without notice.

## USB Media Play

With USB Media Play, you can enjoy music and photo files stored in a USB storage device on your RCA TV.

### Connecting a USB storage device

- Connect a USB storage device to the USB port in the back of the TV.

- Press "INPUT" and select "USB".

- "USB Media Play" menu will appear.

USB 2.0				
	PHOTO	MUSIC	MOVIE	TEXT

*Note:* Specifications and cabinet design are subject to change without notice.

## Limited Warranty for USA

**Coverage - Labor**  
For a period of 12 months from date of purchase of your RCA product, we will pay an authorized RCA service center the labor charge to repair any defects in materials or workmanship in your television. If your television is unreparable we will provide you with a refurbished unit of the same or better model.

### Coverage - Parts

For a period of 12 months from date of purchase of your RCA product, we will pay an authorized RCA service center for the new or at our option, refurbished replacement parts needed to repair any defects in material or workmanship in your television. If your television is unreparable we will provide you with a refurbished unit of the same or better model.

### Coverage - LED LCD Panel

For a period of 12 months from date of purchase of your RCA product, we will pay an authorized RCA service center for the new, or at our option, refurbished LED LCD panel needed to repair any defects in material or workmanship in your television. If your television is unreparable we will provide you with a refurbished unit of the same or better model.

### Media Support Specification

Supported Files	
• Photo	JPG/JPEG files
• Music	WAV files
• Movie	MPG files

Supported USB storage/file system format	
• USB Storage	USB flash drive
• File system format	FAT32

*Caution: Do not turn off the TV or disconnect USB storage device while the TV is playing back picture or music. This may result in loss of data or damage to the USB storage device, and RCA is not responsible for any damage to, or loss of, data on the USB storage device.*

**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 corrlig 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 on the remote control to adjust it.

### OSD Display Duration

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

## Setup Menu

The Setup Menu lets you config the TV with your preferences.

SETUP				
Menu Language				
Menu Transparency				
Closed Caption				
All reset				
Initial Setup Wizard				
Blue Background				
Move				
Select				
Return				

### Menu Language

Set the menu language. **Available languages:** English, French and Spanish.

### Transparency

Set the menu transparency mode: 0%, 25%, 75% 100%.

### Closed Caption

Set the closed caption, the detail is as follows.

Caption Display				
Digital Caption Type				
Digital Caption Style				
Show or hide closed caption				
Move				
Change Setting				
Return				

### Caption Display

Select the caption display cc on or cc off.

Select (the digital closed caption type: service1, service2, Service3, Service4, Service5, Service6).

### Digital Caption Style

Select the digital closed caption style. After you can preview the caption style in the bottom.

**Mode:** Decide whether you can change the settings on the CC Display Style.

**CC Size:** Set the CC font size (Default, Normal, Large, Small).

**CC Font:** Set the CC font (Default, Font 0 - 7).

**CC Opacity Color:** Set the CC opacity color (Default, Solid, Flashing, Transparent, Transparen).

**Text Color:** Set the CC text color (Default, White, Red, Green, Blue, Yellow, Magenta, Cyan).

**CC Background opacity:** Set the CC background opacity (Default, Solid, Flashing, Translucent, Transparent).

**CC Background:** Set the CC background color. (Default, White, Red, Green, Blue, Yellow, Magenta, Cyan).

### All reset

Executes reset to TV system. All setting will be reset to factory default. *Note:* The OSD's appearance and color are referred to the actual appliance.

### Blue Back

Select Blue Back on or off. If the Blue Back is turned on, the TV will display a blue background when there is no signal input.

### No Signal Power Off

Select a time period for "No Signal Power Off". The TV will shut off after that period of time if there is no signal. We suggest you turn on this function when Blue Back is turned on. It may hurt the LED LCD Panel if blue screen is on for too long.

### ARC

Accepted in TV output of digital audio, can be connected to the device supporting ARC, transmit the TV sound to the device.

## Lock Menu

The Lock Menu enables you to lock program with special content, panel key board and input source.

LOCK				
Parental Control				
Move				
Select				
Return				

### Parental Control

When the Parental Control Menu is accessed from the Main Menu, you need to enter password to unlock the menu function. Please enter your four-digit password with numeric keys 0-9. *Note:* The original password is "0000".

After unlocking, the items in parental control menu can be used.

LOCK				
Parental Control				
Change PIN				
Input Block				
V-CHIP				
Keypad Lock				
Clear Channel List				
Remote				
Change your 4-digit PIN				
Move				
Change Setting				