

Remote Control Guide

KAON Set-Top Box

KURV 2.0 VOICE REMOTE

Hot Keys

The following Hot Keys are dedicated short cuts to return the user to the video service regardless of the content or App being viewed.



- 1 MENU:**
Displays the Main Menu.
- 2 LAST:**
Displays the last 15 items that have been watched.
- 3 HOME:**
Displays the main Android TV menu including access to Apps.
- 4 GUIDE:**
Displays the Electronic Program Guide (EPG).
- 5 SHOWS:**
Displays the shows that are presently available for viewing On Demand (VOD).
- 6 MOVIES:**
Displays the movies that are presently available for viewing On Demand (VOD).



BUTTON FUNCTIONALITY



KURV 2.0 Voice
Remote Control Shown

BACKLIGHTING: The remote control is a motion detecting device and will backlight when the remote is picked up or moved. Backlighting will remain on for 3 seconds.

- 1 TV POWER:**
Powers on or off TV if remote is programmed with a TV infrared code.
- 2 TV INPUT:**
Changes video input on TV if remote is programmed with a TV infrared code.
- 3 POWER:**
Switches STB power on or into standby or off mode. Will also control TV power and audio system after remote has been programmed with a TV/Audio Infrared code.
- 4 PAGE (Up or Down):**
In the GUIDE or MENU screens, scrolls one page up or down.
- 5 MENU:**
Launches the MAIN MENU within the App with Live Video or last viewed On-Demand program.
- 6 LIVE TV:**
Tunes to the last content viewed in the App.
- 7 MUTE:**
Mutes the audio on your audio device(s) (TV, Audio System, or STB).
- 8 VOLUME (Up or Down):**
Increases or decreases volume levels on your audio device(s).
- 9 CHANNEL (Up or Down):**
Selects the previous and next available channels. (Hold for rapid advance.) Within MENU or GUIDE acts the same as Page Up/Page Down.
- 10 GOOGLE HOME:**
Launches AndroidTV main menu including access to Apps.
- 11 LAST:**
Displays the last 15 items that have been watched.

- 12 BACK/EXIT:**
Returns to previous menu or state within current App. From live video, this key opens the Main Menu.
- 13 GUIDE:**
Launches the Channel GUIDE (EPG) within the App.
- 14 ARROWS:**
Moves to highlight items in respective direction.
- 15 OK/SELECT:**
Short Press - Confirms a selection. When watching video in the App, info on the current video playing appears, including the time shift bar.
Long Press - Invokes the App search menu. This is the same function as the magnifying glass in the Main Menu.
- 16 SHOWS:**
Launches the SHOWS play list in the App.
- 17 MOVIES:**
Launches the MOVIES play list in the App.
- 18 SEARCH/VOICE:**
Launches voice-based Google Assistant search.
- 19 RECORD:**
Begin recording selected content in the App.
- 20 REWIND:**
Fast rewinds VOD, or live TV.
- 21 FAST FORWARD:**
Fast forwards VOD, or live TV.
- 22 PAUSE/PLAY:**
Play or Pause toggle of VOD, or live TV.
- 23 0-9:**
Enters channel numbers in the GUIDE or full screen video.
- 24 SET:**
Setup the remote to control the TV, and to program an audio device with Infrared (IR) commands.

Battery Monitoring

The remote has ability to output battery status. Follow these steps:

- Press and hold the **Set** key until the remote LED turns green, press **9 9 9**
- If the Green LED blinks 4 times, battery status is excellent.
- If the Green LED blinks 3 times, battery status is good.
- If the Green LED blinks 2 times, battery status is low.
- If the Red LED blinks 1 time, battery status is very low and need to be replaced.

Remote Pairing Operation

STB / Remote IR – RF Mode Conversion

For customers who wish to place the STB in a non-line of sight position (with respect to the remote control) the remote must operate in RF mode. As the remote operates in IR mode by default the user will have to convert the remote operation from IR mode to RF mode by the following sequence:

- While in the same room with the STB, press and hold **Set** on the remote for approximately 3 seconds. The remote LED will initially display red.
- After 3 seconds the remote LED will turn green. Immediately press the home button.
- A 3-digit code will be displayed on the TV screen.
- Enter the 3-digit code shown on the TV.
- If successful, "Connected" will be displayed on the TV screen and the remote now operates via RF mode.

If "Connected" is not displayed, wait 3 minutes, then try the above procedure again. Once successfully paired (Connected), the STB may be placed in a non-line of sight location such as behind the TV or in a cabinet.

To return the remote to the line of sight IR mode of operation, perform the following steps:

- On the remote press and hold **Set** for 3 seconds, until the LED turns green.
- On the remote Press **9 8 1**
- Successful completion is signaled by 2 green blinks.

NOTE:

*The remote must be in RF Paired (Bluetooth) mode for remote Voice functionality to work correctly. If the remote at any time fails to pair, or is not functioning properly, factory reset the remote using the **Set 9 8 1** sequence above, then re-pair remote.*

TV / Remote Programming

Prior to programming remote control to control volume on TV/Power Bar, ensure that volume on those devices is fully turned up. This will yield the widest audio dynamic range when remote is used to control volume on those devices.


By default, the remote controls the Volume on TV, and Power on the STB. To program the remote to the TV, such that remote Master Power key presses adjust Power and Volume on the TV by Infrared commands directly follow the instructions below:

- Press and hold the **Set** key until the remote LED turns green.
- Enter the 5-digit code as found on the *TV Codes for Remote Pairing pdf*.
- Successful programming is indicated by two green blinks of the LED.
- Unsuccessful programming is indicated by two red blinks of the LED.

Audio System - Sound Bar / Remote Programming

Prior to programming remote control to control volume on TV/Power Bar, ensure that volume on those devices is fully turned up. This will yield the widest audio dynamic range when remote is used to control volume on those devices.

By default, the remote controls the Volume on TV, and Power on the STB. To program the remote to the Sound Bar, such that remote Master Power key presses adjust Volume on the Sound Bar by Infrared commands directly, follow the instructions below:

- Press and hold the  key until the remote LED turns green.
- Enter the 5-digit code as shown in *Audio System Codes for Remote Pairing* pdf.
- Successful programming is indicated by two green blinks of the LED.
- Unsuccessful programming is indicated by two red blinks of the LED.

Ecosystem Setup Recommended for the Correct Audio Behavior

It is strongly recommended to program the KURV remote to allow the TV or Audio System control the sound. This will ensure that any channels encoded with Dolby Surround operate as expected. If the STB is allowed to control the sound, channels encoded with Dolby Surround may render with no audio. Programming codes for TV's and Sound Bars/Systems are found in *TV Codes for Remote Pairing* and *Audio Systems Codes* documents.








NOTE:

When entering TV programming codes, ensure the code used has the ability to control both Power and Sound. Some codes may control Power alone and some Audio alone. Use the code that controls both Power and Sound to process Dolby Surround as expected. When the TV code has been programmed, confirm the volume key on the remote brings up the TV sound level indicator, NOT the STB sound level indicator.

It is also strongly recommended that any TV sound leveling technology be disabled. This technology is generally used to squelch advertisement audio that is increased intentionally. This technology may cause unintended variations in sound levels.


TV Code Auto-Search Method

If a code is not included in the *TV Codes for Remote Pairing* and *Audio Systems Codes for Remote Pairing* pdfs, use this method to find control programming:


- Press and hold the  key for 3 seconds, until the LED turns green.
- On the remote press   
- Press the   sequentially until the TV turns off.
- Press the OK / SELECT  key to enter this control into the remote.
- Successful programming is indicated by two green blinks of the LED.

Volume and Mute Controlling Device Link

By default, the remote controls the Volume & Mute on the TV or Sound Bar. To program the remote to control Volume and Mute on the STB, such that remote can adjust volume on the Sound Bar by Infrared commands directly, follow these instructions:


- Press and hold the **Set** until the remote LED turns green.
- Press the **VOL**  key.
- Successful programming is indicated by two green blinks of the LED.
- Unsuccessful programming is indicated by two red blinks of the LED.


To return remote to default for Volume and Mute control on the TV or Sound Bar, follow the instructions below:

- Press and hold the **Set** key until the remote LED turns green.
- Press the **VOL**  key.
- Successful programming is indicated by two green blinks of the LED.
- Unsuccessful programming is indicated by two red blinks of the LED.

Remote Behavior

If the remote has been programmed to the TV and Audio Systems as described on the above, the remote's TV power button  will control the TV power only.


This will not affect the powered state of the STB. The "all devices" power button  will control the TV power as well as the STB and audio system power states if remote has been fully programmed with TV and audio system.

The "all devices" power button  may be used in two ways while system is fully powered on:

Short Press: Will turn off TV/audio system and put the STB into standby by mode.

Long Press: User will be prompted if they want STB to be powered down (non-standby) mode. If OK is selected, the TV, Audio system, and STB will all be powered down. The STB will be fully powered down and not be in standby mode.

NOTE:

To prevent the STB and the "all devices" power button  user input reactions from becoming unsynchronized (i.e. the "all devices" power button turns the TV Off while turning the STB On, or vice versa) it is recommended to use only short presses of the "all devices" power button.

If a *long press* of the "all devices" power button is used to Power Off the TV, it **MUST** be followed by a *long press* to turn the TV back On. If a *long press* to turn the TV Off is followed by a *short press* to turn TV On, the TV and STB may become unsynchronized with the respect to being On or Off at the same time.

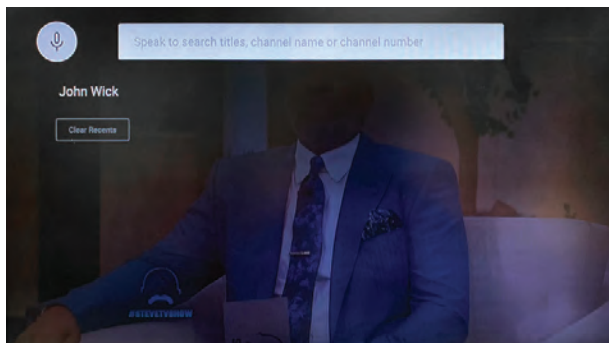
If the TV and STB become unsynchronized with respect to power button presses, power cycle (i.e. Remove power) to the STB, while the TV is On. This will resynchronize the TV and STB power.

REMOTE “OK” BUTTON FUNCTIONALITY



When pressing the OK/select key for an extended time, on the KURV 2.0 remote controls, the Operator in app search screen appears on the TV.

The KURV 2.0 voice remote control is capable of searching by talking into the remote. When activated, speak into the remote.



SEARCH SCREEN

Once Search has been selected by a *long press* and release of OK button, the search window will appear, allowing the user to type in (or speak) search keywords for content titles (series, movies, episodes) and channel titles across live, upcoming, lookback and VOD content within the Operator App.

When using a KURV 2.0 voice enabled remote for searching within an app, ensure that the screen microphone is highlighted. This signifies that voice input is enabled. If you are in the search screen and the voice microphone is not highlighted in red, a *short press* of the OK button will enable the voice input.

Once a search term has been typed or spoken, the results will be populated, and may contain results that fall into one or more of the following categories:

Shows (e.g. Type/Speak "Wheel of Fortune")	Live & Upcoming (e.g. Type/Speak "Tennis")
Movies (e.g. Type/Speak "Lost in Space")	Episodes (e.g. Type/Speak "The One Where Joey Tells Rachel")
Channels (e.g. Type/Speak "MSNBC")	

The user may select any of the results in order to access additional information about the program.

NOTE:

The channel search is not yet supported (e.g. "Tune to Channel 7" or "Tune to MSNBC").

REMOTE GOOGLE ASSISTANT BEHAVIOR



When pressing the Google Assistant button on the remote, behavior is dependent upon whether the user is signed in or not to Google. Users signed in to Google will experience a broader interaction.

The KURV 2.0 Voice remote, when activated, is capable of listening to voice commands or manually entering text using the on-screen keyboard. The following are Google Assistant examples that can be typed in or spoken:

YouTube

- "Open YouTube App"
- "Play cat videos on YouTube"
- "Search for sitcoms on YouTube"
- "Tell me information about Game of Thrones"

Video Control, i.e. YouTube

- Playback* - "Pause" "Stop" "Resume"
- Volume* - "Louder" "Softer"
- Power - "Turn Off" (puts the STB in standby mode)

Internet Searches

- "Who won the 1962 World Series."
- "What is the capital of North Dakota."
- "Who won the Warriors game?"
- "What's 20% of 80?"
- "What does "gregarious" mean?"
- "How do I say Nice To Meet You in French?"
- "How's the S&P 500 doing?"
- "How many kilometers in a mile?"
- "Search for summer vacation ideas."
- "Find pictures of kittens."
- "How do you remove red wine stains from a rug?"
- "Play some Jazz music."
- "Play the latest episode from This American Life."
- "What's the latest news from BBC?"

To exit the Google assistant page press the back button



*Google Sign-in is Required.



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