DVDO Quick^{6R}™

6x2 4K Ultra HD HDMI Switcher (Roku Ready Certified)

User Guide

Version 1.0

Important Safety Information

- Follow all instructions.
- Use only a dry cloth to clean.
- Use caution not to block any vents in either unit.
- To reduce the risk of electric shock, do not use near water or expose to rain or moisture. Keep away from excess moisture.
- Do not use near heat sources such as room heaters or hot A/V equipment.
- Read all warnings.
- Use only accessories, including mounting brackets, approved by DVDO.
- Unplug the device during lightning storms or when unused for long periods of time.
- Keep away from open flames.
- Protect all connected cords including power cords from being pinched, compressed, or stepped on.
- Do not open the case. All servicing should be done only by qualified and approved service personnel.

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

Contents

Overview

Quick^{6R}™ is DVDO's latest HDMI switcher for home entertainment and theater applications supporting Roku Streaming Stick (Roku Ready® Version)

Key Features

- InstaPrevue® technology
- InstaPort® S Single-second technology
- Six HDMI inputs, two HDMI outputs; 4K Ultra HD capable
- MHL® capability on two inputs
- Auto switching – three modes
- Optical and coax S/PDIF outputs
- Serial and IR remote control
- Simple firmware update using USB flash drive
- Onscreen Display (OSD) for easy setup and control
- Special AVR mode for easy integration with any existing audio receiver
- Auto negotiating Mirror mode ensures compatibility
- Remote control, including discrete on and off codes with Roku specific buttons

In the Box

- Quick^{6R} HDMI switcher
- 12 VDC power supply
- Remote control
- Quick Start Guide

InstaPrevue Visual Switching Technology

Quick^{6R} InstaPrevue technology gives you a simple way to view and select inputs. Instead of choosing from a text list of input names, Quick^{6R} offers visual input selection by displaying individual preview windows for each active input. Activate InstaPrevue by pressing the InstaPrevue button:

Note that preview windows only display connected inputs that are active.

Use the arrow buttons on the remote control to select the input you want to watch and press the ENTER button to switch to that input.

There are two modes available that are set in the InstaPrevue Setup > Activate Names menu:

- **Offset mode:** The selected window is offset to show which input is selected.
- **Named mode:** The name of the selected input shows above its preview window.

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

Offset Mode   **Named Mode**

InstaPort S Single-second Switching Technology

The Quick^{6R} InstaPort S Single-second technology makes it possible that when you select an HDMI source, that contents becomes available immediately, without delay. With InstaPort S technology, the only delay in the system is caused by the TV when you switch between sources of different resolutions, while the TV syncs to the new format.

The Quick^{6R} superior source switching performance is possible because the InstaPort S technology performs the HDCP authorization immediately when the device is connected. This is in contrast to the usual situation when, upon connecting a source to an HDMI switcher, the HDCP authorization process is not initialized until that source is selected as the input to be displayed on the TV.

Roku Streaming Stick (Roku Ready Version) support

Quick^{6R} is certified as Roku Ready and ships with a remote control that supports all the functionality of the Roku Streaming Stick (Roku Ready Version). The Roku Streaming Stick is available from www.roku.com and only functions in the Input #6. Full installation and operational instructions are in the "Installing and Using the Roku Streaming Stick" section of this users guide.

Input/Output

Front Panel

1	IR window	Remote control receiver
2	Input indicators	Off = no connection, Amber = HDMI connected, Green = active input.
3	Input select	Manually cycles through connected inputs.
4	Power switch	Press to turn on the Quick⁶ᴿ or to turn off.
5	Power indicator	Lights up in green when the Quick⁶ᴿ is on.

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

Rear Panel

1	Power input	12 VDC 3 A minimum
2	Update Firmware button	See the Updating Firmware section on page 23 for details. This button is held during power-up to start the firmware update process from an attached USB flash drive.
3	USB connector	Primarily used for updating firmware, and also supplies 5 V @ up to 1 A for accessories.
4	Serial port	Allows control of Quick^{6R} by external control systems.
5	HDMI outputs	MAIN output is always active, AUX output depends on OSD setting; The two available modes are Mirror and AVR.
6	S/PDIF audio outputs	Coax and optical: Whenever the audio stream permits, audio is extracted from the active input and sent to the S/PDIF outputs.
7	HDMI Inputs 1 through 6	Input 1 and Input 6 are each capable of connecting to an HDMI device or an MHL mobile device using only a passive cable. Each of these ports can supply up to 900 mA for charging the mobile device.
8	Input #6	Input #6 is the only port that will accept the Roku streaming stick

Connections

AVR via AUX HDMI and AVR via S/PIDF Modes

In these AVR connection modes, Quick^{6R} becomes the primary HDMI switch and control center for a home theater. Connection to an existing Audio-Video Receiver (AVR) is accomplished using either HDMI or S/PDIF (for older AVRs with no HDMI). If the AVR has an HDMI input, this is the preferred connection because it provides the best overall experience. With either connection, the AVR is always left on that input and all switching is done with Quick^{6R}.

If the Quick[6R] connection to the AVR is from the AUX HDMI output, then choose AVR via AUX HDMI in the output setup menu. If the Quick[6R] connection to the AVR is from the optical or coax S/PDIF output, then choose AVR via S/PDIF in the output setup menu.

Why Use AVR Mode?

The AVR mode extends the life of your existing AVR. In most installations, the AVR is used not only as the audio amplifier but also as the central video switch. Since the audio needs to match the video being displayed, running everything through the AVR is the simplest method. While AVRs tend to have a long life and continue to provide basic audio functions, video standards and features change more often. Adding Quick[6R] to an existing system upgrades the entire entertainment center to the latest features. With Quick[6R] installed, the AVR becomes the primary audio processor and Quick[6R] becomes the primary switch in the system. Quick[6R] routes the best possible audio to the AVR and the best possible video to the TV.

Audio and Video Resolution and Routing

When Quick[6R] is put into AVR via AUX HDMI mode, the full audio capabilities of the AVR are scanned and combined with the best possible video capabilities of the TV and the combination is reported back to all inputs. In this way, the inputs send the best possible audio routed to the AVR and the best possible video routed to the TV. Since the input signal could have a resolution of up to 4K (Ultra HD) with HD audio, and the TV may not be able to handle HD audio, Quick[6R] mutes the audio going to the TV when the AVR is on. HD Audio includes Dolby® TrueHD as well as DTS-HD Master Audio™ formats.

When the AVR is disconnected or powered off, the audio capability of the TV which is normally just PCM stereo is reported back to the inputs and the TV audio is unmuted. In this way you can choose to watch a program just with the TV audio (AVR off) or with full surround sound from the AVR (no audio from the TV). This special negotiation only happens if the AVR is connected to the AUX HDMI output.

When Quick[6R] is put into AVR via S/PDIF mode, the video capabilities of the TV are scanned and combined with a prestored capability list of a standard AVR connected through S/PDIF and the combination is reported to all the inputs. This is necessary because the capabilities of the connected AVR cannot be read through S/PDIF. This allows full TV resolution up to 4K while delivering the full audio capabilities possible over S/PDIF, including bit stream such as Dolby, DTS, and other formats. In this mode, Quick[6R] also mutes the audio going to the TV to prevent formats unknown to the TV from causing unwanted noise.

DVDO Quick[6R] 6x2 4K Ultra HD HDMI Switcher

Because S/PDIF offers no way to detect if the AVR is on or off, if you want to use the TV speakers the output mode must be switched manually back to Mirror or AVR via AUX HDMI.

AVR is always connected to the AUX output.

AVR can also be connected using S/PDIF.
Note: S/PDIF does not support High Definition (HD) audio from Blu-ray players.

TV is always connected to MAIN output.

Input 1 and Input 6 also support MHL connections. These inputs autoconfigure to accept connections from an MHL mobile device.

AVR Mode Routing

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

AVR Mode Resolution

Mirror Mode

In this configuration, Quick^{6R} allows two devices to share a single stack of equipment. This mode is normally used to feed both a TV and video projector in the same room or for a second monitor in a close but related area, such as a bar at the back of a home theater.

Audio and Video Resolution and Routing

In Mirror mode, the two outputs provide the same audio and video signal. If they have different capabilities, the highest common video resolution and audio capability is reported to the inputs. For example, the main TV is 1080p, PCM stereo, and the Aux TV is 720p, 5.1-channel capable; in this case 720p PCM stereo is reported to all inputs.

The Onscreen Display (OSD) is only shown on the main output.

DVDO Quick[6R] 6x2 4K Ultra HD HDMI Switcher

Connect any two TVs, projectors or other displays.

AVR can also be connected via the S/PDIF output.

OR

Mirror Mode Routing

Mirror Mode Resolution

Audio Return Channel (ARC)

In certain setups, the TV may be the source of audio. This is most common when watching live terrestrial TV from an HD antenna. In this case, the TV receives a live ATSC signal over-the-air. The video is displayed onscreen, but you may want the audio to be played from the AVR. The audio path is shown in red in the figure below.

In most cases the preference is to route audio from the Quick[6R] HDMI or MHL inputs to the Aux HDMI output or to the S/PDIF output, using ARC only when viewing over-the-air broadcasts.

Most TVs can be put into automatic ARC mode so that when sensing that an audio receiver capable of receiving ARC is connected, they automatically negotiate with the receiver to establish an ARC channel.

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

AVR can be connected to Aux HDMI output of Quick6 but ARC path is through S/PDIF.

TV is always connected to MAIN output. ARC signals are only accepted through MAIN output.
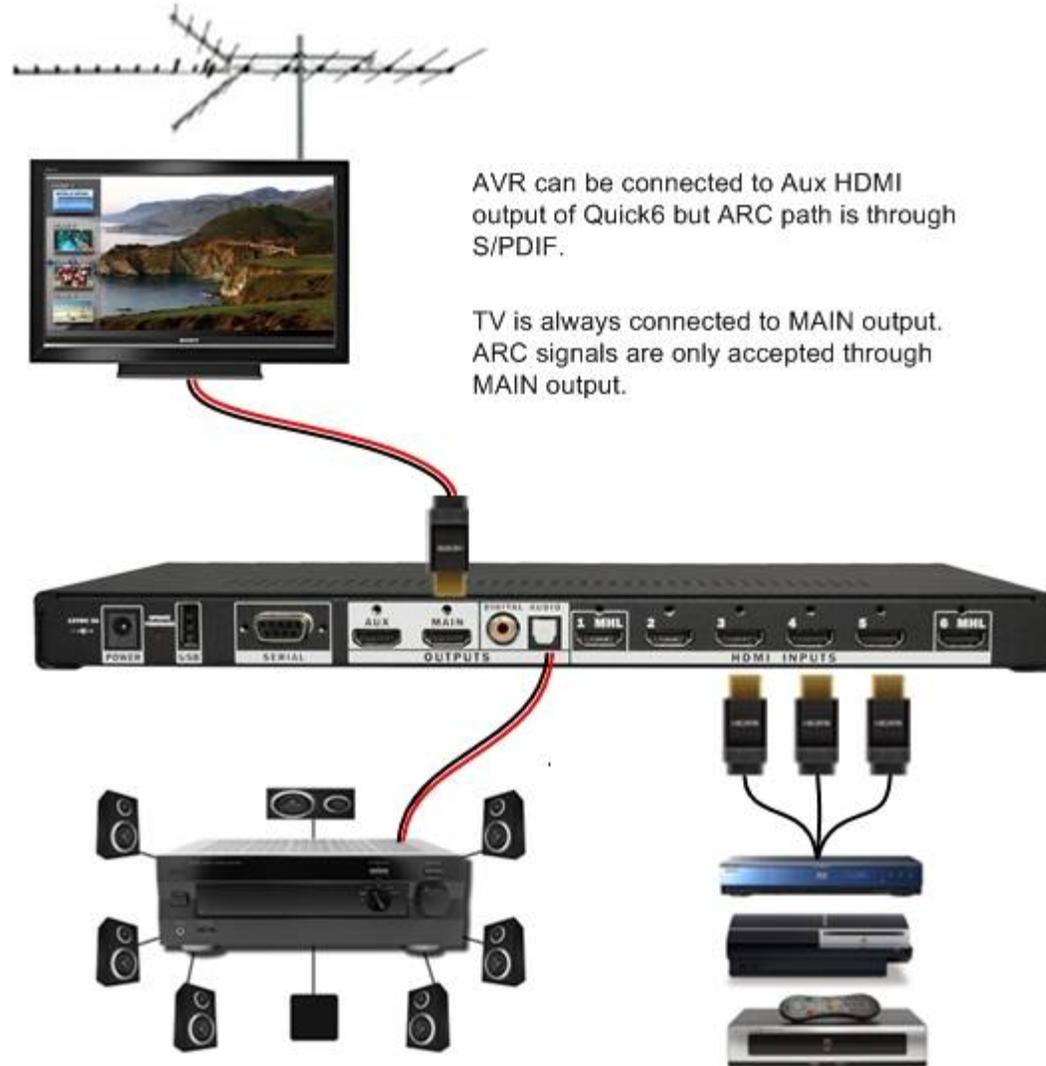
Audio Return Channel

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

Quick^{6R} has a special control mechanism allowing you to easily switch ARC on and off. To use ARC with a Quick^{6R} system:

1. Ensure that your TV is capable of ARC and that the correct TV HDMI input (usually marked) is connected to the Quick^{6R} MAIN HDMI output.
2. Put the TV into the ARC-on mode and enable CEC (manufacturers label these two menu items differently; refer to the TV's user documentation for more information).
3. Connect an audio receiver from either the coax or optical Quick^{6R} S/PDIF output to the S/PDIF input of the receiver.
4. Switch the receiver to the S/PDIF input source.
5. Press the ARC button on the Quick^{6R} remote control or select Send Initiate ARC on the Quick^{6R} Onscreen Advanced Settings menu.

You can enable or disable ARC with the Onscreen Display. The ARC button on the remote control toggles between enabling and disabling ARC mode.

Normally, leave the TV with ARC on and CEC enabled. When you want to use ARC, switch the audio receiver to the S/PDIF input and press the ARC button on the Quick^{6R} remote.

Remote Control

Power and Standby/Off buttons are discrete functions that can be taught to any universal remote.

PIP: Brings up picture-in-picture (PIP) window on the main output or on both outputs if mirrored.

SWAP: Exchanges the main and PIP window.

ARC: Alternately enables and disables Audio Return Channel.

HDMI 1 through **HDMI 6:** Allows direct input switching.

MENU: Brings up the Onscreen Display (OSD) menu.

EXIT: Exits the OSD menu and other special functions.

Navigation buttons: Use for making OSD menu selections. The left and right arrows also change the input selection.

InstaPrevue: Displays all active HDMI inputs in their own InstaPrevue picture-in-picture windows that periodically update with screenshots of each video input. This allows you to visually choose the input you would like to switch to. Select the desired input by using the left and right arrow keys. Press ENTER to switch to the selected input. Press InstaPrevue again or press EXIT to exit the InstaPrevue system.

ROKU buttons: Back, *, Home, Rew, Play/Pause, FF are used to control an attached Roku MHL streaming stick (sold separately)

Onscreen Display Menu System
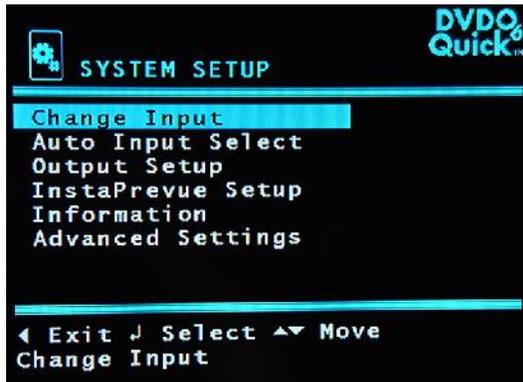
Press MENU on the remote control to display the System Setup menu, which provides access to system settings.

Asterisks (*) in the descriptions below indicate the factory default settings.
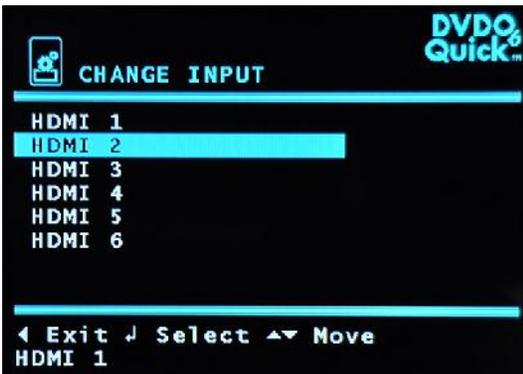
The Change Input menu allows to directly select the active input. This is exactly like pressing one of the HDMI input select buttons on the remote control.

Making a selection in this menu has no effect on the switching mode.

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

Manual: No auto switching; used when Quick^{6R} is controlled externally by the serial port or by a universal remote.

Scan on Disconnect: Quick^{6R} switches to the lowest numbered active input if the current source is turned off or unplugged.

*Scan + goto new: Operates the same as Scan on Disconnect, and also makes a source that is turned on or connected become the active input.

*Mirror Mode: Both HDMI outputs display the same audio and video. The maximum common resolution and audio capability of the two TVs is used.

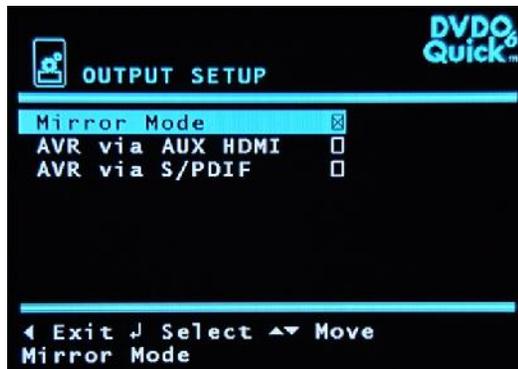**AVR via Aux HDMI:** This is a special mode that indicates that the AUX output is going to an AVR primarily to carry audio. In this mode, if the AVR is on, its audio EDID is presented to the inputs so that the maximum audio capability of the AVR can be used. The Main output audio is also muted. If the AVR is switched off, the main TV output EDID is presented to the inputs and main audio is unmuted. This selection allows you to use the TV speakers for audio in normal situations or turn on an AVR and get full HD audio.

AVR via S/PDIF: This mode is similar to AVR via AUX HDMI except the connection to the AVR is via S/PDIF coax or optical. Because audio capabilities and power status cannot be sensed through S/PDIF, this mode uses a common prestored audio capability common to most AVRs. This mode also mutes the audio on the main HDMI output. If mirror mode is used, then the TV's audio capability, which is normally only stereo PCM, is used; the AVR via S/PDIF mode, however, enables up to full bitstream DTS audio to be delivered to the AVR.

DVDO Quick⁶ᴿ 6x2 4K Ultra HD HDMI Switcher

Location: Allows you to move the InstaPrevue windows to four different screen locations. By default, they display vertically along the *Left side of the screen.

Input Naming: This selection displays an onscreen keyboard to allow you to give friendly names to each input. The default names are *HDMI 1 through HDMI 6.

Activate Names: If checked, the friendly names are shown above the InstaPrevue windows when the InstaPrevue button is pressed. If *not checked a simple offset display style is used to show the InstaPrevue selection.

Under Input Naming, scroll to select the input that you want to name.

Use the onscreen keyboard that appears to enter your custom name.

First, select CLR to remove the existing name.

Then, using no more than 6 characters, enter the new name.

Use lower case shift to enter lower case letters.

Select OK to save.

Customized names are saved to memory and will remain even through a power outage.

Remember that inputs 1 and 6 also support the MHL interface.

On the rear panel, input 6 is spaced a little farther from Input 5 to allow room for special MHL devices, such as the Roku Streaming Stick. If the Roku stick is plugged into Input 6, then that port automatically takes the name "Roku"

The Information screen provides switch settings and information about the audio and video of the active input.

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

CEC Enable: If *checked, Quick^{6R} responds to CEC commands such as power on or off. If unchecked, CEC commands are ignored.

Send Initiate ARC: Enables the Audio Return Channel from the TV to the main HDMI output and sends a request to the TV to begin sending audio.

Send Terminate ARC: Disables the ARC function and sends a request to the TV to exit ARC mode.

Load FW from USB: Loads new firmware from an inserted USB flash drive. See the Updating Firmware section on page 23 for more information.

Factory Settings: Resets Quick^{6R} to factory default settings; refer to the Resetting to Factory Default Settings on page 25.

EDID Mode: Allows setting a fixed EDID.

HDMI 6 Power: Allows non-MHL mobile devices to charge on port 6 and aids with compatibility with older devices. When activated, this input always appears to be active even if the connected source is off. This results in a blank InstaPrevue and PIP window and the amber input LED is always on. This feature is *Off by default.
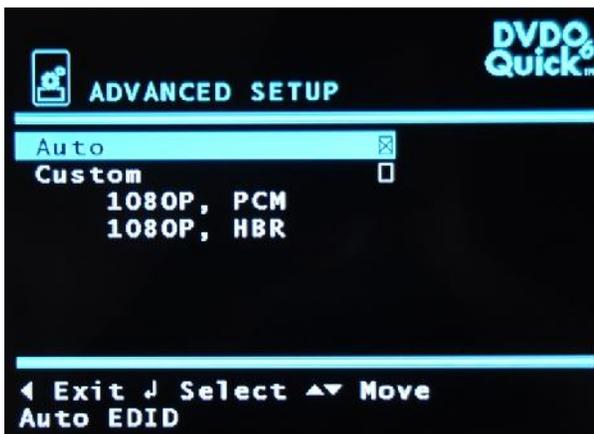
*Auto: When selected, Quick^{6R} automatically senses source and display capabilities. Use this for best compatibility unless you have trouble with a specific device.

Custom: When checked, one of the two capability choices below can be selected. These options activate a special mode where all capabilities of attached devices are ignored and the selected ones are used instead. This feature is *Off by default.

1080P, PCM: Sends 1080p video and stereo PCM audio EDID capability information to all sources regardless of their display capabilities.

1080P, HBR: Sends 1080p video and High Bit Rate (HD) Audio EDID capability information to all sources regardless of their display capabilities.

When using a custom EDID, this selection overrides any choices in the output setup menu.

Updating Firmware

Quick⁶ᴿ allows firmware updates using a USB flash drive and the USB port on the Quick⁶ᴿ Rear Panel.

You can check the current firmware version using the OSD menu and accessing the information screen For example: firmware version 0101 (filename `Q6FW0101.BIN`) displays as `01.01.xx` on the information screen.

Two files are required to update the Quick⁶ᴿ firmware, that are available from DVDO.com when new firmware is released. The files are:

- `BIN` file which contains the actual firmware binary, and
- `OSD` file which contains the fonts, text, and graphics for the OSD.

To update the Quick⁶ᴿ firmware:

- The two files must be placed in the root directory of a FAT- or FAT32-formatted USB flash drive
- The files must be in the format `Q6FWxxxx.BIN` and `Q6FWxxxx.OSD` where `xxxx` is the version number of the firmware.
- All letters must be upper case, including the extensions `BIN` and `OSD`.
- The two files must have the same firmware version.
- Only one pair of firmware files can exist in the root directory of the flash drive.

There are two methods for updating firmware: through the onscreen display and by pressing the Update Firmware button. The preferred method is by using the onscreen display.

Updating Firmware Using the Onscreen Display

1. Download the two firmware files from DVDO.com, place them on an USB flash drive, and insert the drive into the USB slot at the rear panel of Quick⁶ᴿ.
2. Press MENU on the Quick⁶ᴿ remote control, select Advanced Settings, then select Load FW from USB.
3. Press ENTER to confirm that you want to update the firmware.

4. The following occurs:

   a. While updating the green light on Input 3 blinks.

   b. If the update was successful, the green lights on Input 1 and 3 blink alternately; if the update failed the amber light on Input 2 lights solid.

   c. Quick^{6R} then resets and enters the active mode.

5. Check the information screen from the main menu to confirm the new firmware version. If the update failed, use the procedure described in the Upgrading Firmware Using the Update Firmware Button section.

If you choose to return to the factory default settings, or if instructed to do so as part of the particular firmware version you are updating to, refer to the Resetting to Factory Default Settings on page 25.

Upgrading Firmware Using the Update Firmware Button

This is a fail-safe method that works even if the firmware becomes corrupted and you cannot load firmware from the OSD.

1. Download the two firmware files from DVDO.com, place them on a USB flash drive, and insert the drive into the USB slot on the back of Quick^{6R}.

2. Unplug the power cord and all sources from Quick^{6R}.

3. While pressing the Update Firmware button, plug in the power cord.

4. Continue to press the Update Firmware button until the green LED on port 3 lights solid, for about three seconds.

5. Release the Update Firmware button.

6. If the update was successful, the green lights on Input 1 and 3 blink alternately; if it fails the amber light on Input 2 lights solid. This process normally takes between five and ten seconds.

If you choose to return to also reset settings to the factory default settings, or if instructed to do so as part of the particular firmware version you are updating to, refer to the Resetting to Factory Default Settings on page 25.

Troubleshooting a Firmware Update Error

A firmware update error is indicated by one or two solid amber lights on the front of Quick^6R. Check the following to determine why the update failed.

- Be sure the firmware version you are trying to load is different from the one already in Quick^6R a firmware update will not proceed if the versions are identical.
- Be sure that there are two files on the root directory of the USB stick and they conform to the naming convention described in the Updating Firmware section on page 23: `Q6FWxxxx.BIN` and `Q6FWxxxx.OSD`. Upper case letters are required).
- If there is no USB flash drive inserted or the files are incorrect, a single or double amber light illuminates and a reset requires removing the power cord and then reattaching.
- Start with an empty USB flash drive formatted to FAT or FAT32.
- If the firmware has become corrupted, use the method described in the Upgrading Firmware Using the Update Firmware Button on page 24.

Resetting to Factory Default Settings

To return to the factory default settings:

1. Press MENU on the remote control and select Advanced Settings.
2. Select Factory Settings.
3. Press ENTER to confirm you want to return to the factory settings.
4. After about 30 seconds, a message on screen instructs you to reboot. Turn Quick^6R off and on again.

Serial Control

The serial port allows an external home automation system to control Quick^6R. All menu and remote commands are available as well as a series of queries to determine the status of Quick^6R. Contact DVDO for a detailed command reference.

Troubleshooting

Issue	Possible Resolution
Quick⁶ᴿ or other sources turn off unexpectedly. Quick⁶ᴿ or sources power down when the TV is turned off.	CEC commands from the TV are instructing other devices to power down when it is switched off. If this is undesired behavior, uncheck the CEC Enable box in the Advanced settings Menu on Quick⁶ᴿ. This tells Quick⁶ᴿ to ignore CEC commands, which are still passed through Quick⁶ᴿ to the sources.
Blu-ray pauses when a different input on Quick⁶ᴿ is selected.	CEC commands from Quick⁶ᴿ are instructing other devices to power down or pause when switched. If this is undesired behavior, uncheck the CEC Enable box in the Advanced Settings menu on Quick⁶ᴿ. This tells Quick⁶ᴿ to ignore CEC commands. They are still e passed through Quick⁶ᴿ to the sources.
Slow response in the menu system or in system switching.	Uncheck the CEC Enable box in the Advanced Settings menu of Quick⁶ᴿ. Excessive CEC commands can cause unexpected behavior.
Source is not recognized by Quick⁶ᴿ.	If a source does not cause the corresponding amber input LED to light, indicating that an active source is plugged in to an HDMI port): 1) If your hardware version is Rev X04 or later (found on the serial number sticker on the bottom of the unit), use input 5 for that source. 2) If that fails, or if you have Rev X03 or lower, move that source to HDMI input 6. Then, check the HDMI 6 Power box in the Advanced Settings in the Quick⁶ᴿ menu. Some earlier devices need extra help being recognized. With the HDMI 6 Power setting enabled and an MHL passive cable connected, Quick⁶ᴿ can charge any cellphone or tablet.
No video.	Check that the source is not forced to a resolution that your display cannot handle. Check that all HDMI cables are firmly plugged in on both ends. Try selecting another input on Quick⁶ᴿ and then switch back to reset the capability tables. Make sure the correct output mode is chosen in the Quick⁶ᴿ menu: Mirror Mode if using two displays; AVR via AUX HDMI if an AVR is connected to the auxiliary HDMI output; AVR via S/PDIF if an AVR is connected to the S/PDIF output. Try using a custom EDID if your display is capable of 1080p using the EDID Mode in the Quick⁶ᴿ Advanced Settings menu.

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

Issue	Possible Resolution
No audio.	Make sure that the correct output mode is chosen in the Quick^{6R} menu: Mirror Mode if using two displays; AVR via AUX HDMI if an AVR is connected to the auxiliary HDMI output; AVR via S/PDIF if an AVR is connected to the S/PDIF output. If in Mirror Mode, make sure the source is not forcing audio, such as bitstream, to a format that the TV cannot interpret. Make sure the AVR is powered on and that the correct input is correctly connected to either the Aux HDMI or S/PDIF inputs on Quick^{6R}. If using the S/PDIF connection ensure that it is properly assigned on the AVR to the selected video input.
The AVR only plays stereo when in AVR via AUX HDMI or AVR via S/PDIF mode.	Even though the full audio capability of the AVR is being reported back to the selected source, such as a Blu-ray or DVD player, audio modes such as bitstream DTS and Dolby normally have to be manually selected on the source menu. PS3 and most DVD players allow the audio mode to be manually selected as bitstream, which enables full surround sound, even through the S/PDIF channel on Quick^{6R}. If bitstream is chosen on a source and the AVR is then switched off, even though Quick^{6R} unmutes the audio stream to the main display, the main display may not be capable of decoding a bitstream audio channel. Either change the source audio back to PCM/LPCM or turn on the AVR and select the appropriate input.
Quick^{6R} is not autoswitching properly.	Check the autoswitch settings in the Auto Input Select Quick^{6R} menu. The Manual selection disables autoswitch.
InstaPrevue windows are missing.	Only active inputs are displayed in the InstaPrevue screen. Any sources that are powered down or in standby will not appear. If HDMI 6 Power is used or an input uses a nonstandard power-save mode, a grey window may appear for that input.
Firmware does not update from the USB flash drive.	Be sure that both `.OSD` and `.BIN` firmware files are in the root directory of the USB flash drive and the root directory does not contain any other firmware files. Be sure both files are for the same firmware version number. Be sure all capital letters are used in the filenames including the extension; format should be `Q6FWxxxx.BIN` and `Q6FWxxxx.OSD` where `xxxx` is a 4-digit number common to both filenames. When writing the files to the USB flash drive from a computer, right-click the mouse and choose Eject ensure that the files are properly closed and written before removing the drive. When updating with the Update Firmware button, unplug all HDMI connections from Quick^{6R}, remove power from Quick^{6R}, hold the Update Firmware button, and apply power.
Factory default issues: Slow response after resetting to defaults, Defaults not saved properly.	Exactly follow the reset procedure: Choose Factory Settings from the Advanced Settings menu on Quick^{6R}. Press ENTER to confirm and start the reset. Wait 30 seconds. Power Quick^{6R} down and then back up.

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

Issue	Possible Resolution
Audio Return Channel (ARC) is not working.	The Audio Return Channel (ARC) depends on a set of instructions passed between the primary display and Quick^{6R}. Since Quick^{6R} replaces the AVR as the main switching device in the system, Quick^{6R} has the ability to appear as either a standard switcher or an AVR to the display. First, set up the TV to allow ARC. Then Quick^{6R} can be set to appear as a switcher by turning off the ARC channel or appear as an AVR by turning on the ARC channel. In the primary TV menu system, turn CEC on. (Different manufacturers use different brand names for this function; refer to the TV user documentation for more information on enabling commands over HDMI.) In the primary TV menu system, enable ARC, which is usually in an audio menu. If applicable to your TV, scan for and select Quick^{6R} as the primary audio source. Use Quick^{6R} to enable and disable the ARC channel as needed with one of the following methods: From the Advanced Settings menu in Quick^{6R}, choose Send Initiate ARC to start the ARC channel or Send Terminate ARC to stop the ARC channel. These commands are provided separately in case your TV needs to see the command more than one time to make the switch. From the Quick^{6R} remote control, press the ARC button one time to enable the ARC channel and once again to disable ARC channel. The path for ARC is from the main display into the Quick^{6R} Main HDMI output and then out through the S/PDIF output. When you press the ARC button on the Quick^{6R} remote control, the S/PDIF output alternates between the audio from the selected input on Quick^{6R} to the audio from the main display. Depending on the types of sources that you have, one input may need to be active on Quick^{6R} for ARC to pass audio properly and for the menu system to be visible. Be sure that your TV supports ARC and that the connection from Quick^{6R} to the TV is from the MAIN HDMI output on Quick^{6R} to a TV input that supports ARC, and that is normally labeled ARC. Not all inputs on a TV support ARC.
InstaPrevue windows are slow to update. PIP windows are slow to update. Quick^{6R} is slow to switch.	Try moving the InstaPrevue windows to the left or right position. Upon initial power up and the first use of InstaPrevue/PIP after powering up, Quick^{6R} goes through a discovery process to determine the capabilities and encryption settings of each source, display, and AVR. Allow all windows to populate one time, and then resume normal use.
Quick^{6R} will not power up properly, or will not upgrade firmware.	When updating with the Update Firmware button, unplug all HDMI connections from Quick^{6R}. Remove power from Quick^{6R}. Hold the Update Firmware button and apply power.

Issue	Possible Resolution
Trouble entering friendly names for inputs.	The on-screen-keyboard is provided to make naming your inputs simple. At the bottom of the keyboard, special characters provide keyboard control: a Go to lowercase letters and extra symbols CLR Clear entire entry; normally use this first before entering new characters DEL delete currently highlighted character SPC space OK save the entry and return INS insert a character ◄ Move cursor left ► Move cursor right Each name can only have 6 characters

Specifications

Four 300 MHz (4K Ultra HD) HDMI inputs and two HDMI/MHL combination inputs

S/PDIF coax and optical outputs

Two 300 MHz (4K Ultra HD) HDMI outputs

HDMI certification including CEC and ARC

MHL certification

FCC and CE

IR and Serial Control

Serial protocol: 19200: 8, n, 1

Serial commands available on request from help@DVDO.com

USB firmware update using FAT- or FAT32-formatted flash drive

12 VDC, 3 A input

Rack mounting using a shelf

FCC Interference and Compliance Statement

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.

FCC WARNING

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 different from that to which the receiver is connected.

•Consult the dealer or an experienced radio/TV technician for help.

Caution

To comply with the limits for an FCC Class B computing device, always use the shielded signal cord supplied with this unit.

The Federal Communications Commission warns that changes or modifications of the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE mark for Class B ITE (Following European standard EN55022/1998; EN61000-3-2/1995; EN61000-3-3/1995, EN55024/1998, EN60950-1/2001)

Radio Frequency Interference Statement Warning: This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

ROKU END USER AGREEMENT

IMPORTANT: READ THIS AGREEMENT CAREFULLY AND REVIEW THE FULL PRODUCT AND SAFETY INFORMATION AT WWW.ROKU.COM (OR ROKU.COM/CA IF IN CANADA), BEFORE POWERING UP YOUR PLAYER FOR THE FIRST TIME.

Purpose and Scope of Agreement

This Roku End User Agreement ("**Agreement**") is the legal agreement between you ("**You**") and Roku, Inc. ("**Roku**") governing Your use of: (i) any product that uses the Roku platform to play digital content distributed over the internet or downloaded to the product (a "**Player**"), (ii) the firmware and software that Roku installs on, or updates directly to the Player (the "**Software**"), (iii) the Roku Channel Store (the "**Channel Store**"), and (iv) if downloaded by You to a mobile device, any Roku Mobile Application (a "**Mobile App**"). By establishing an account at https://owner.roku.com (a "**Roku Account**") and using a Player, and/or by downloading a Mobile App, you are agreeing to be bound by the terms and conditions of this Agreement. If you do not agree to these terms and conditions, you are not granted any right to use the Player or to access the Channel Store, and you should return the Player to the place where you obtained it for a refund.

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Version 1.1 - 26 February 2007
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Access to Content: Roku Accounts

Definitions Applicable to this Section:

"**Channel**" means the video, audio, photo, game, and other channels available in the Channel Store to enable delivery of Content via a Player.

"**Channel Store**" means the on-screen menu accessed via a Player which permits end users to browse and install selected Channels on a Player.

"**Content Provider**" means a third party who provides Content that is accessible via the Channel Store and a Player.

"**Fee-Based Programming**" means the specific Content available to end users of a Player who agree to pay the applicable fee to access the Content.

"**One-Time Fee**" means a single one-time charge payable for access to selected Fee-Based Programming.

"**Private Channel**" means a Channel which may be accessed by entering a developer-provided linking code on the Roku website.

"**Public Channel**" means a Channel that is generally available to all Roku users and is visible in the Roku Channel Store.

"**Subscription Fee**" means a monthly or annual fee charged for access to selected Fee-Based Programming.

Establishing an Account

Players are enabled to permit users to access Content provided by various Content Providers. In order to access Content, You are required to establish a Roku Account at https://owner.roku.com and provide Your credit card number or PayPal account information against which Your Fee-Based Programming fees will be charged. At Your option, a PIN code may be required to access certain Fee-Based Programming. If You prefer to use a PIN, You will choose Your PIN when establishing Your Roku Account preferences. Through Your Roku Account, You will be provided the opportunity to review monthly summaries of Your charges. In addition, for some of the Content, You may be required to maintain a valid and active account in good standing with one or more Content Providers. You must adhere to Roku's terms of service and to the terms of service of any Content Provider whose Content You choose to access. See www.roku.com/channels#!now-playing for a list of Content Providers for a Player. Roku may add or remove Content Providers from time to time, in its sole discretion. Roku reserves the right to remove from Your Player Your access to certain Content if Roku has reason to believe that it is not properly authorized or licensed, violates any law, or has been offered by a Content Provider in violation of any agreement between the Content Provider and Roku. You are responsible for ensuring that any age-restricted Content is not viewed by any person not meeting the applicable age limits, as specified by law, regulation or the Content Provider.

Fees and Charges

Where Roku manages the handling and processing of Your payments for Fee-Based Programming, the following terms apply:

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One-Time Fee Programming. For Public Channels, Your account will be charged in full when You confirm Your Channel selection or when the PIN is entered, if applicable. For Private Channels, You will be charged after the Channel appears as an option in Your Channel line-up and You have confirmed Your desire to purchase access to the Channel.

Subscription Fee Programming. The timing of Your initial selection of subscription Fee-Based Programming will provide the basis for Your bill dates for all future monthly and yearly Subscription Fees. All Subscription Fees will be charged for the full term of the applicable subscription period, i.e., for the month or year, as applicable, at the time You order the subscription, except where pro-rated monthly billing applies. Where the first month is pro-rated, the second and all subsequent charges applied to Your account will be for the full monthly or yearly Subscription Fee, as applicable.

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Roku warrants the Player hardware against defects in materials and workmanship under normal use for a period of ninety (90) days from the date of purchase (the "**Warranty Period**"). If Roku determines that a Player's hardware is defective, Roku will either repair the unit or replace the unit with either a new or rebuilt Player, at its option. If the Warranty Period has expired or is otherwise not applicable (see Scope and Limitation on Warranty below), we will return the Player to You. More information about this warranty and the Roku return process can be found at www.roku.com/support by clicking on the License/Warranty tab.

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The warranty on a Player is limited to the repair or replacement of defective units as described in the Limited Warranty section above. This warranty does not cover customer training or education, installation, set up adjustments, or signal reception problems. This warranty also does not cover any issue related to the service provided by Your internet service provider or Content Providers, including but not limited to service disruption, changes in service terms, changes in offerings, changes in format, or technical problems. This warranty does not cover damage due to acts of God, accident, misuse, abuse, negligence, commercial use or modification of, or to any part of, Your Player. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply or attempted repair by anyone other than a facility authorized by Roku to service Your Player. This warranty does not cover consumables (such as fuses and batteries). THE OBLIGATION TO REPAIR OR REPLACE DEFECTIVE HARDWARE AS SET FORTH IN "LIMITED PLAYER HARDWARE WARRANTY" ABOVE IS ROKU'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY IN THE EVENT OF ANY BREACH OF THE LIMITED WARRANTY.

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Attention: *Your invoice with the date of purchase, model number and serial number of the product is your proof of the date of purchase.*

The International Limited Warranty is applicable and shall be honored in every country where DVDO or its Authorized Service Providers offer warranty service subject to the terms and conditions provided in this International Limited Warranty Statement.

DVDO Quick^{6R} 6x2 4K Ultra HD HDMI Switcher

DVDO Products Warranty Period

The warranty terms for all DVDO products are:

Domestic & Asia	1Year
EU & UK	2 Years

Any third party products such as the Roku Streaming Stick are not covered under the DVDO warranty and are covered under the third party warranty only. See Roku Warranty statement at the end of this document. If you need warranty replacement of the Roku stick within the Roku warranty period of 90 days, follow the process in the "Obtaining warranty service" section to receive authorization to return the stick to DVDO for a replacement.

System Warranty

During the warranty period, the defective hardware of DVDO products will be either repaired or replaced, with new or like new products, at the discretion of DVDO except in the cases listed in the **Limitation of Liability Clause** of this document

This International Limited Warranty covers the costs of service parts and labor required to restore your product to fully functional condition. DVDO will, at its discretion, repair or replace any defective products or parts thereof covered by this International Limited warranty with refurbished parts of the product that are equivalent to new or like new products in both functionality and performance. A product or part that is repaired or replaced under this International Limited Warranty shall be covered for the remainder of the original warranty period applying to the product or part, or for 90-days, whichever expires last. All exchanged parts and products under this International Limited Warranty will become the property of DVDO.

DVDO offers no warranty of any kind for any pre-installed software, its quality, performance, functionality, or compatibility for a particular purpose. Nor does DVDO warrant that the functions contained in the software will meet specific requirements or that the operation of the software will be uninterrupted or error-free. Thus, the software is sold 'as is" unless otherwise explicitly stated in writing.

Obtaining the Warranty Service

Warranty service or Returned Merchandise Authorization (RMA) under this International Limited Warranty will be honored only if claims are made within the warranty period. For notifications to DVDO or products outside the warranty period, the process will be the same, but charges may apply. Contact details may be obtained on DVDO website http://www.dvdo.com/support/rma.aspx. Customers are requested to perform the following actions before claiming DVDO product as defective:

(a) Owner must notify DVDO, during the warranty period, in writing of alleged defect, and allow DVDO a reasonable opportunity to inspect the allegedly defective product;

(b) No Product may be returned without DVDO's consent, The DVDO RMA# must accompany all returns, and all returns must be delivered to DVDO within the warranty period;

(c) Owner may, then at its own expense, return the allegedly defective Product, freight pre-paid and in the original packaging, accompanied by a brief statement explaining the alleged defect to DVDO;

(d) If DVDO determines that any returned Product is not defective, or if DVDO determines that the defect is not covered by the warranty, DVDO will return the Product to the Owner at Owner's expense, freight collect, and Owner agrees to pay DVDO's reasonable cost of handling and testing;

(e) Upon determining that a returned product is defective, to receive warranty service Owner will need to present the invoice showing the original purchase transaction. If shipping the product, Owner will need to package it carefully and send it, transportation prepaid by a traceable, insured method, to the DVDO Service Center. Package the product using adequate padding material to prevent damage in transit. The original container is ideal for this purpose. Include the RMA#, your name, return shipping address, email address and telephone number where you may be reached during business hours, inside the shipping package with the unit. Any replacement unit will be warranted under these Terms and Conditions for the remainder of the original warranty period or ninety (90) days whichever is longer.

Refer to the user manual enclosed within the product package and information on our website for important tips on how to operate and troubleshoot the product: http://www.dvdo.com/support/documentation.aspx.

International Warranty

Warranty may be valid when a DVDO product is purchased in one country and transferred to another country, without voiding the warranty. Please be advised that service availability and response time may vary from country to country. Warranty is transferrable within the warranty period.

DVDO is not responsible for any export and import control issues, handling fees, tariffs, import duties, and all other related fees where owner is responsible for shipping its products. This International Limited warranty does not affect your statutory rights.

Limitation of Liability

DVDO reserves the right to refuse warranty service of products under disputable conditions. DVDO also holds the rights to declare final decision whether products are within warranty conditions. The following actions and damages will result in voiding the limited warranty:

• Damage caused by act of nature, such as fire, flood, wind, earthquake, lightning, etc.

• Damage or incompatibility caused by failure to perform a proper installation or to provide an appropriate operational environment for the product, including but not limited to unstable wired/ wireless network connection and phone lines, bad grounding, external electro-magnetic fields, direct sunlight, high humidity and vibration.

• Damage caused by impact with other objects, dropping, falls, spilled liquids, or submersion in liquids.

• Damage caused by unauthorized repair or disassembling of the product.

• Damage caused by any other abuse, misuse, mishandling, or misapplication.

• Damage caused by third party peripherals (including but not limited to visible damages on motherboard or other electronic parts of the product such as burn spots after electric discharge, melting, fusing, splitting, etc.)

• Any unauthorized software or modification of built-in software not approved by DVDO.

- The serial number of the product (or serial number stickers of its parts) has been modified, removed, blurred or damaged.
- Defects caused by transportation, handling or customer abuse.

Disclaimer of Warranty

THIS WARRANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON DVDO'S PART, AND IT NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PARTY TO ASSUME FOR DVDO ANY OTHER LIABILITIES. THE FOREGOING CONSTITUTES THE BUYER'S SOLE AND EXCLUSIVE REMEDY FOR THE FURNISHING OF DEFECTIVE OR NONCONFORMING PRODUCTS AND DVDO WILL NOT IN ANY EVENT BE LIABLE FOR COST OF SUBSTITUTE OR REPLACEMENT, COST OF FACILITIES OR SERVICE, DOWNTIME COSTS, LOSS OF PROFITS, REVENUES OR GOODWILL, RELIANCE DAMAGES, LOSS OF DATA, LOSS OF USE IF OR DAMAGE TO ANY ASSOCIATED EQUIPMENT, OR ANY OTHER INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES BY REASON OF THE FACT THAT SUCH PRODUCTS WILL HAVE BEEN DETERMINED TO BE DEFECTIVE OR NONCONFORMING.

THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS AGREEMENT SHALL NOT BE GOVERENED BY THE PROVISIONS OF THE 1980 U.S. CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS OR THE UNITED NATIONS CONVENTION ON THE LIMITATION PERIOD IN THE INTERNATIONAL SALE OF GOODS, AS AMENDED (COLLECTIVELY, THE "CONVENTIONS"); RATHER, THE RIGHTS AND OBLIGATIONS OF THE PARTIES SHALL BE GOVERNED BY THE LAWS OF THE SATE OF CALIFORNIA, INCLUDING ITS PROVISIONS OF THE UNIFORM COMMERCIAL CODE, AS APPLICABLE. FOR THE AVOIDANCE OF DOUBT, THE CONVENTIONS ARE HEREBY EXCLUDED.

This Limited Warranty gives you specific legal rights. You may also have other rights that may vary from state to state or from country to country. You are advised to consult applicable state or country laws for full determination of your rights. Some jurisdictions do not allow the exclusion or limitation of special, incidental or consequential damages, or limitations on how long a warranty lasts, so the above exclusion and limitations may not apply to everyone.

Getting Help

For service and support, contact your local dealer.

To find your dealer or to contact DVDO support, go to:

www.dvdo.com/support

or call

1-888-651-1765

DVDO Inc.
1140 East Arques Avenue, Suite 700
Sunnyvale, CA 94085

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Hi!
Let's get started.

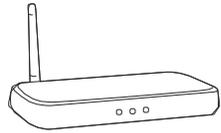**Installing and using the Roku Stick**
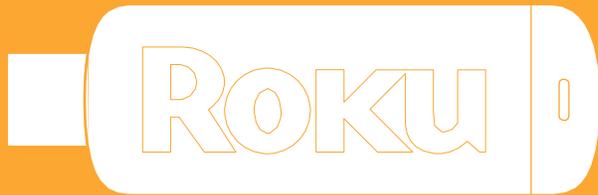
Roku

What's in the **box**

Roku
Streaming Stick™
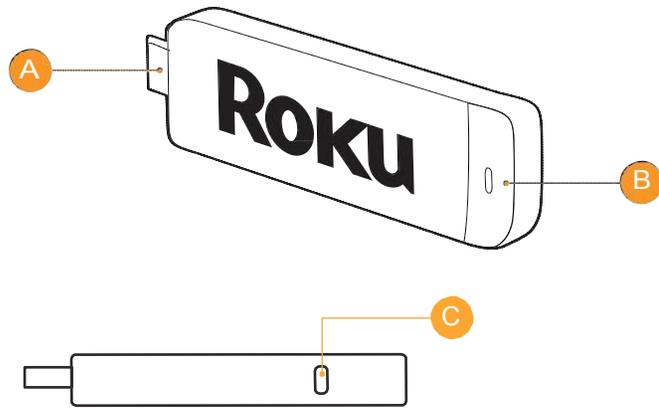
What you **need**

High speed
Internet

Wireless
Router

Roku Ready™
Quick^{6R}

MHL
Mobile High-Definition Link

Know your **Streaming Stick**

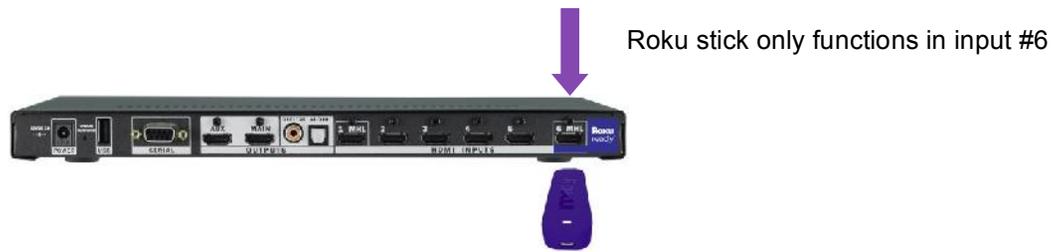**A** [MHL CONNECTOR] Plugs into the MHL port on
the back of your TV.

B [STATUS LIGHT] Signifies it is on when lit, or activity
when flashing.

C [RESET BUTTON] Used to reset your Streaming Stick
(you probably won't ever have to use this).

What to **do**

Plug it in

Plug your Roku Streaming Stick into the **MHL port #6** of your Quick^{6R}. Simple as that!

Roku stick only functions in input #6

Note that when used with Quick^{6R}, the Quick^{6R} remote is used to control Roku

Connect to network

Now you can grab that Roku remote and jump right into guided setup. When prompted, select "Wireless" as your network connection and have your network name and password ready to do the following:

- Select your network from the list of available networks.

- Enter your network password, if you use one. Remember, network passwords are case sensitive.

Complete guided setup

It's the final stretch and hooray—it's a breeze! Continue following the on-screen instructions and you'll:

- Get the latest software.

- Link the Roku Streaming Stick to your Roku account on your computer.

Your Roku account: During setup, you'll be prompted to create your Roku account online at roku.com/link. Your Roku Streaming Stick will generate a unique code that links your player to your new account. Roku accounts are free and secure. And while a valid credit card number is required to create your account, rest assured you will only be charged if you authorize purchases of apps and games from the Roku Channel Store.

Know your **Quick⁶ᴿ remote**

The Quick⁶ᴿ remote should feel right at home in your hand. We designed it to be incredibly intuitive for watching TV and great for gaming, too!

Ⓐ **[BACK]** Return to previous screen

Ⓑ **[HOME]** Return to Roku home screen

Ⓓ **[UP]** or **[DOWN]** Move up or down;
[LEFT] or **[RIGHT]** Move left or right

Ⓕ **[OK]** Select an option from a menu

Ⓖ **[OPTIONS]** View more options

Ⓗ **[REV SCAN]** Rewind, scroll left one page at a time

Ⓘ **[PLAY/PAUSE]** Start or pause playback

Ⓙ **[FWD SCAN]** Fast forward, scroll right one page at a time

Trouble**shooting**

Having trouble completing setup? Don't worry: it's usually an easy fix.

If you cannot see a picture on your TV:

- Make sure your TV is turned on. (This tip could save you some embarrassment.)

- Make sure the video input on your TV or home theater receiver is set to match the output (usually HDMI or MHL) used with the Roku Streaming Stick. Most TVs have an Input button on the remote control to change video inputs.

If you cannot connect to your wireless home network during guided setup:

- If you are not getting 3 or more signal-strength bars above your wireless network, adjust the location of your Roku Streaming Stick and/or wireless router. Make sure there are no obstructions, like cement walls, between your Roku Streaming Stick and your wireless router.

- Make sure you select the correct wireless router name on the "Wireless" screen.

- Make sure you enter the correct password, if your network is security-enabled (password is case sensitive).

- If you have turned off SSID broadcasting on your wireless router, you can add your network by selecting "My network is not shown" from the "Wireless" screen.

If you cannot hear sound:

- Make sure the connectors on the cables between your TV and home theater receiver are pushed in all the way.

- Make sure the volume on your TV or home theater receiver is turned up and isn't on mute.

- Make sure the input on your TV or home theater receiver matches the output (HDMI or MHL) used with your Roku Streaming Stick.

Roku

Need more **help?**

roku.com/support

Get the most out of your Roku Streaming Stick.
Check out our FAQs, instructional videos and user forums.

Roku Player
Important Product Information

The License Agreement

The Roku and third-party software license terms can be found at: www.roku.com/license. Use of the Roku player constitutes acceptance of as well as agreement to those license terms.

Ninety (90) Day Limited Hardware Warranty

Subject to the additional terms and conditions set forth below, Roku provides this Limited Warranty:

• Only to the person or entity that originally purchased the Player from Roku or from one of its authorized resellers or distributors;

and

• Only for Players purchased and delivered to the end user within the United States.

Limited Warranty

Roku warrants the Roku Player ("Player") hardware against defects in materials and workmanship under normal use for a period of ninety (90) days from the date of purchase ("Warranty Period"). If Roku determines that the Player's hardware is defective, Roku will either repair the unit or replace the unit with either a new or rebuilt Player, at its option. If the Warranty Period has expired or is otherwise not applicable (see Scope and Limitation on Warranty below), we will return the Player to you. More information about this warranty can be found at www.roku.com/support. THE FOREGOING SETS FORTH ROKU'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY IN THE EVENT OF ANY BREACH OF THIS LIMITED WARRANTY.

Return and Warranty Service Process

Please access and review the online help resources at www.roku.com/support before seeking warranty service. To return or obtain warranty service for a Player, you must first obtain a Return Merchandise Authorization (RMA) number from a Customer Support Representative (CSR) at Roku. Customer Support contact information can be found by visiting www.roku.com/support. RMA numbers expire thirty days from issuance. Roku may attempt to troubleshoot a warranty-related problem prior to issuing a RMA number. Please be prepared to provide additional information upon request. Once a RMA number is obtained, you must ship your Player, freight prepaid, together with proof of purchase and all accessories, in either the original packaging or packaging affording an equal degree of protection, to the Roku authorized distribution facility identified by the CSR. Failure to return any of the accessories could result in a delay and/or result in an invoice to you or credit to Roku for the missing accessories.

Important: When emailing for a RMA number, please provide the following information with your request: (a) model number, (b) serial number, (c) problem description, (d) software version (located in the System Configuration menu), (e) date of purchase, (f) place of purchase (reseller or online place of purchase), and (g) return shipping address (P.O. boxes are not accepted).

Scope of and Limitation on Warranty

The warranty on the Player is limited to the repair or replacement of defective units as described in the Limited Warranty section above. This warranty does not cover customer training or education, installation, set up adjustments, or signal reception problems. This warranty also does not cover any issue related to the service provided by your Service Provider, including but not limited to service disruption, changes in service terms, changes in offerings, changes in format, or technical problems. This warranty does not cover damage due to acts of God, accident, misuse, abuse, negligence, commercial use or modification of, or to any part of, your Player. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply or attempted repair by anyone other than a facility authorized by Roku to service your Player. This warranty does not cover consumables (such as fuses and batteries).

Legal Notices

Federal Communication Commission Interference Statement

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 of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and 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.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

Wireless Radio Use:

This device is restricted to indoor use when operating in the 5.15 to 5.25 GHz frequency band.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note to US model owner:

To comply with US FCC regulation, the country selection function has been completely removed from all US models.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Safety Precautions

This product has been designed with the highest concern for safety. However, any electrical device, if used improperly, has the potential for causing fire, electrical shock or personal injury. To help ensure accident-free operation, follow these guidelines:

• Observe all warnings, precautions and instructions.

• Regularly inspect the AC power adapter for damage.

• Stop use, unplug the AC power adapter from the electrical outlet and disconnect any other cables immediately if the Player

functions in an abnormal manner, produces unusual sounds or smells or becomes too hot to touch.

• For more information on product safety and troubleshooting, please go to www.roku.com/support.

Use and Handling

Note: The Roku 3 features motion-sensing control in its gaming remote. The following precautions pertain to use of this remote.

• When playing video games, use in a well-lit area and stand or sit as far away from the television screen as possible.

• Take a 10-15 minute break every hour if playing video games and avoid prolonged use of the remote.

• Stop using the Player immediately if you begin to feel tired or if you experience discomfort or pain in your hands or arms while operating the wireless remote; if the condition persists, consult a doctor.

• If you experience any of the following health problems, discontinue use of the Player immediately:

— Dizziness, nausea, fatigue or symptoms similar to motion sickness.

— Discomfort or pain in a part of the body, such as eyes, ears, hands, or arms.

If symptoms persist, consult your physician.

• Keep the Player and accessories, including cable ties and fasteners, out of the reach of small children.

• Do not touch the Player or connected cables during an electrical storm.

• Do not allow liquid, small particles or other foreign objects to get into the Player or accessories.

• Do not expose the Player to smoke or steam.

• Do not expose the Player or accessories to high, temperatures, high humidity or direct sunlight.

• Do not place the Player or the remote on the floor or in a place where they may cause someone to trip or stumble.

• To prevent possible hearing damage, do not listen at high volume levels for long periods.

IMPORTANT tips about battery handling!

Inserting batteries: When inserting batteries, be sure to insert each battery negative (-) side first, pushing it into the coil and then into the compartment. Never insert batteries positive (+) side first.

Replacing batteries: Always replace dead batteries with two brand-new batteries from the same manufacturer. Never use damaged batteries.

Disposal of batteries: Always dispose of batteries following federal guidelines or local ordinances. Do not dispose of used batteries in an open fire.

Warning: If your remote gets warm/hot during use, discontinue use and contact Roku Customer Support immediately at roku.com/support.
There is a risk of explosion if battery is replaced by an incorrect type.

www.roku.com