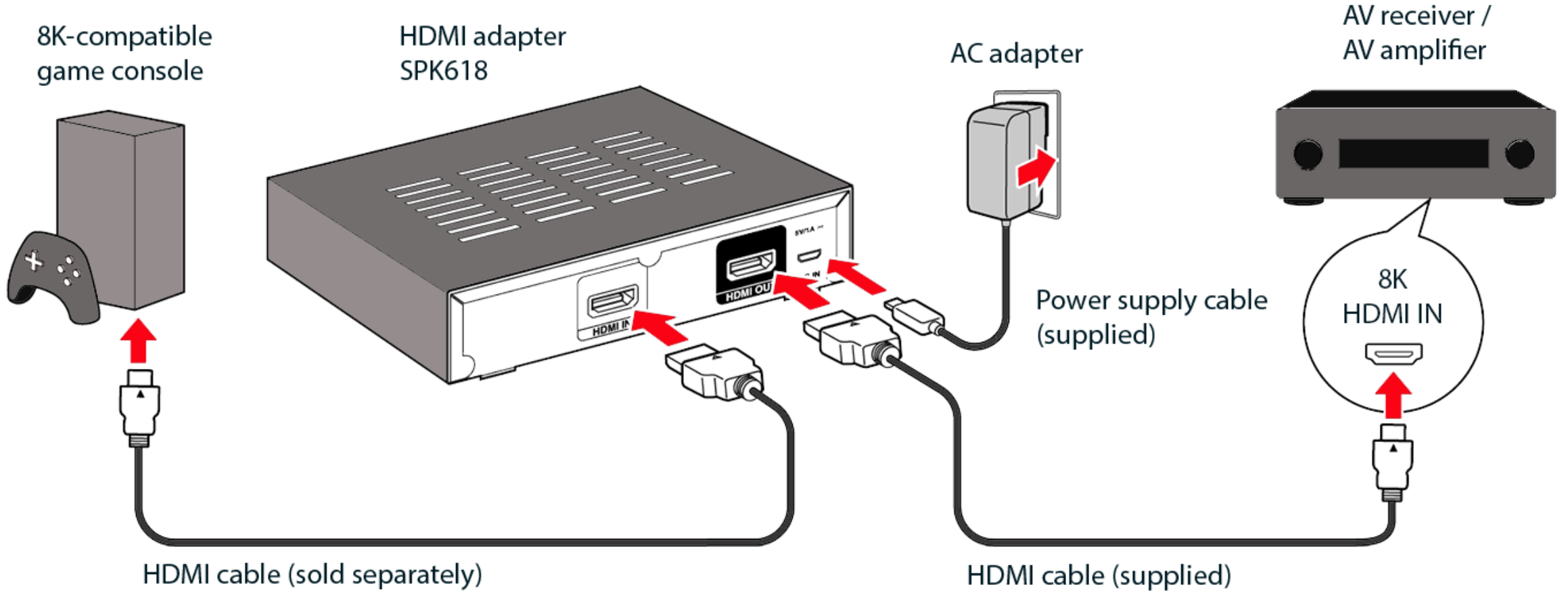


HDMI ADAPTER SPK618

The SPK618 HDMI adapter is designed to solve the 4K/120 and 8K incompatibility issues when connected between Denon receivers supporting 4K/120 and 8K video resolutions and game consoles that support 4K/120 and 8K video resolution output.



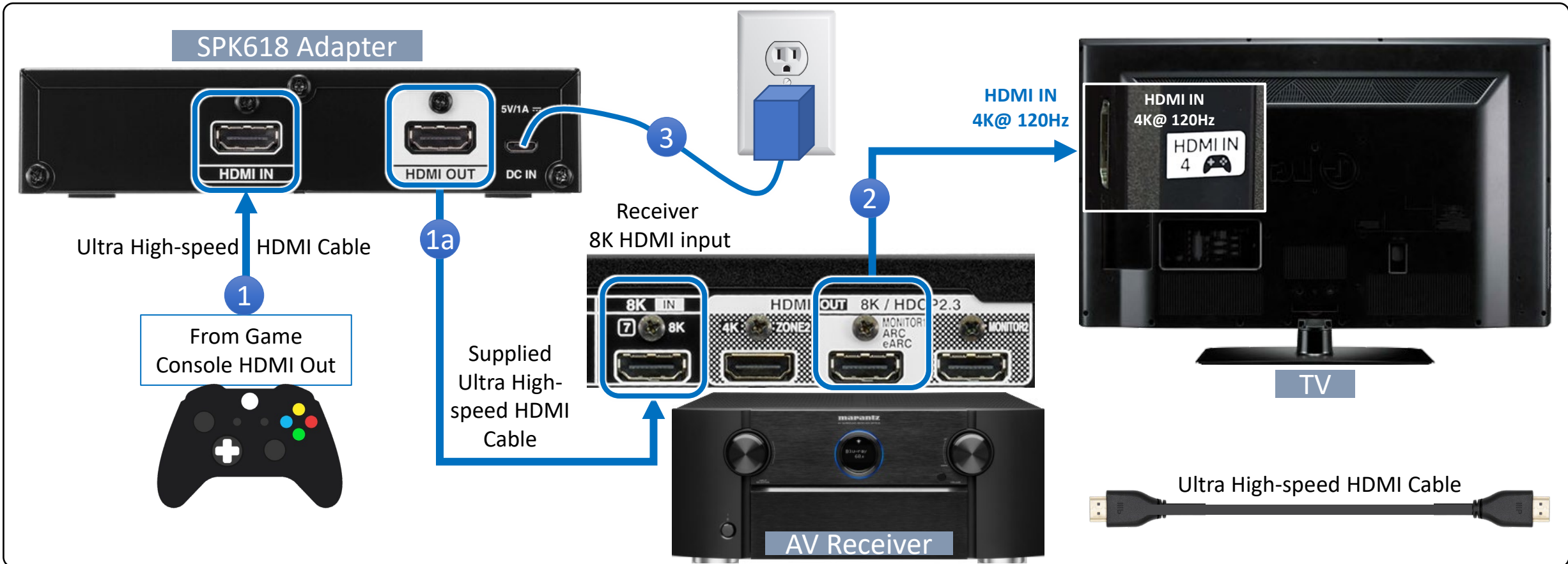
To ensure maximum compatibility and performance before you connect the adapter, make sure that your receiver has been updated to the latest firmware. Go to the Setup menu and Select General > Firmware > Check for Update and click **“Update Now”** if an update is offered.

The image displays a sequence of four screenshots from the Marantz receiver's setup menu, illustrating the steps to check for firmware updates:

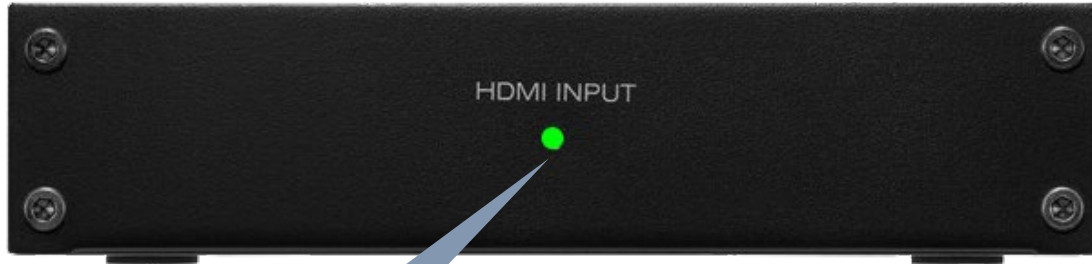
- Setup Menu:** The main menu with options: Audio, Video, Inputs, Speakers, Network, HEOS Account, General (highlighted), and Setup Assistant.
- General:** The General settings menu with options: Language, ECO, Bluetooth Transmitter, ZONE2 Setup, Zone Rename, Quick Select Names, Front Display, Firmware (highlighted), Information, User Data, and Save & Load. A note at the bottom states "Manages firmware updates".
- General/Firmware:** The Firmware settings menu with options: Check for Update (highlighted), Auto-Update, Allow Update, Upgrade Notification, and Add New Feature. A note at the bottom states "Update the firmware of the receiver".
- General/Check for Update:** The Check for Update screen showing the message: "This update improves overall performance and stability." Below this, it displays "Estimated time to install: 19min" and two buttons: "Update Later" and "Update Now".

Procedure to connect the SPK618 adapter.

- 1 Connect the game console to the adapter's HDMI input using a certified ultra high-speed HDMI cable, then use the supplied ultra high-speed HDMI cable to connect the adapter's output to your receiver's 8K HDMI input terminal.
- 2 Next, connect the receiver's HDMI monitor out to your HDMI 2.1 compatible TV. Note: To enjoy 8K and 4K/120 video, you must use a certified ultra high-speed HDMI cable.
- 3 Plug the adapter's power supply into an AC outlet.



- 4 There's an LED light on the front of the adapter chassis that turns Green when the unit is on, and Red when it's on standby. The adapter will automatically turn on whenever the game console is turned on.



Green indicates
"ON"



Red indicates
"Standby"

Procedure to configure your 8K compatible Denon AV receiver HDMI Video Settings

- 1 Bring up the Setup menu and under the Video menu, select 4K/8K Signal format. Select 8K enhanced if your TV is HDMI 2.1 compatible.

The image displays a sequence of five screenshots from a Marantz AV receiver's setup menu, illustrating the steps to configure 4K/8K signal format. The screenshots are arranged in a descending staircase pattern from top-left to bottom-right.

- Screenshot 1 (Top-Left):** Shows the main Setup Menu. The 'Video' option is highlighted in blue. The Marantz logo is in the top right.
- Screenshot 2:** Shows the Video menu. The '4K/8K Signal Form' option is highlighted in blue. The Marantz logo is in the top right.
- Screenshot 3:** Shows the Video 4K/8K Signal Format menu. The 'Enhanced' option is selected in a blue box. The Marantz logo is in the top right.
- Screenshot 4:** Shows the Video 4K/8K Signal Format menu. The 'Enhanced' option is selected in a blue box. The Marantz logo is in the top right.
- Screenshot 5 (Bottom-Right):** Shows a confirmation dialog box. The text reads: "Your TV is not configured to support 8K 60p or 120p video. Are you sure you want to change to 8K Enhanced?" There are 'Yes' and 'No' buttons at the bottom. The Marantz logo is in the top right.

Once your TV and your receiver are properly configured, you can set your gaming console to output 4K at 120 frame per second.

Procedure to verify if your system is ready to playback 8K content as well as 4K games at 120p

There's a couple of ways you can verify that your system is ready to playback 8K content as well as 4K games at 120 frames per second.

Option 1

Press the **"Info"** button on the receiver's remote control to display the formats of the signal going into the input and the signal output. This will allow you to see if the 4K or the 8K signals are passing through properly.

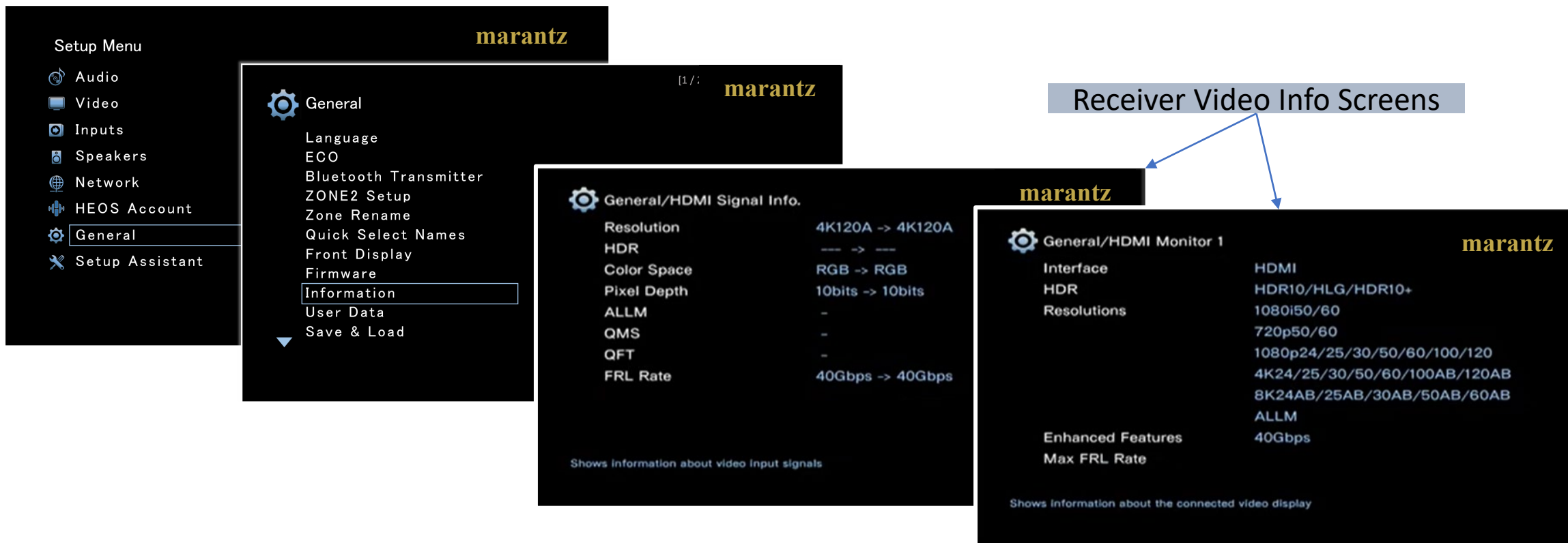
The screenshot shows a dark blue receiver menu. At the top left, there are three menu items: 'SOURCE' set to 'Xbox', 'SOUND' set to 'Multi Ch In', and 'SIGNAL' set to 'PCM'. Below these, there are two sub-menus: 'INPUT SIGNAL' and 'ACTIVE SPEAKERS'. The 'ACTIVE SPEAKERS' menu is expanded, showing 'SW', 'SL', and 'SR' options. At the bottom left, there is a volume icon and a volume slider set to 40.0. At the bottom right, there is an 'ECO:AUTO' energy saving icon and an 'Energy Use' bar.

	[INPUT]	[OUTPUT]
Resolution	4K120A	4K120A
HDR	---	---
Color Space	RGB	RGB
Pixel Depth	8bits	8bits
FRL Rate	32Gbps	32Gbps

Option 2

Press the **“Setup”** button on the receiver’s remote control and select **“General”** from the menu.

Select **“Information”** and under the **“Video”** sub-menu, you will see 2 different Info menus providing a lot of information, including Resolution. Frame rate, HDR, what type of HDR and what additional HDMI 2.1 features are being passed from your source to your TV.



You can also verify that the TV is receiving content in 4K/120 by bringing up the TV’s info screen.

You’re now ready to enjoy not only 8K content, but 4K games at 120 frames per second.