

# Pulse-Eight Limited

EDID MANAGEMENT FOR NEO MATRICES

(Example using a neo4:Pro)

OCT 2019

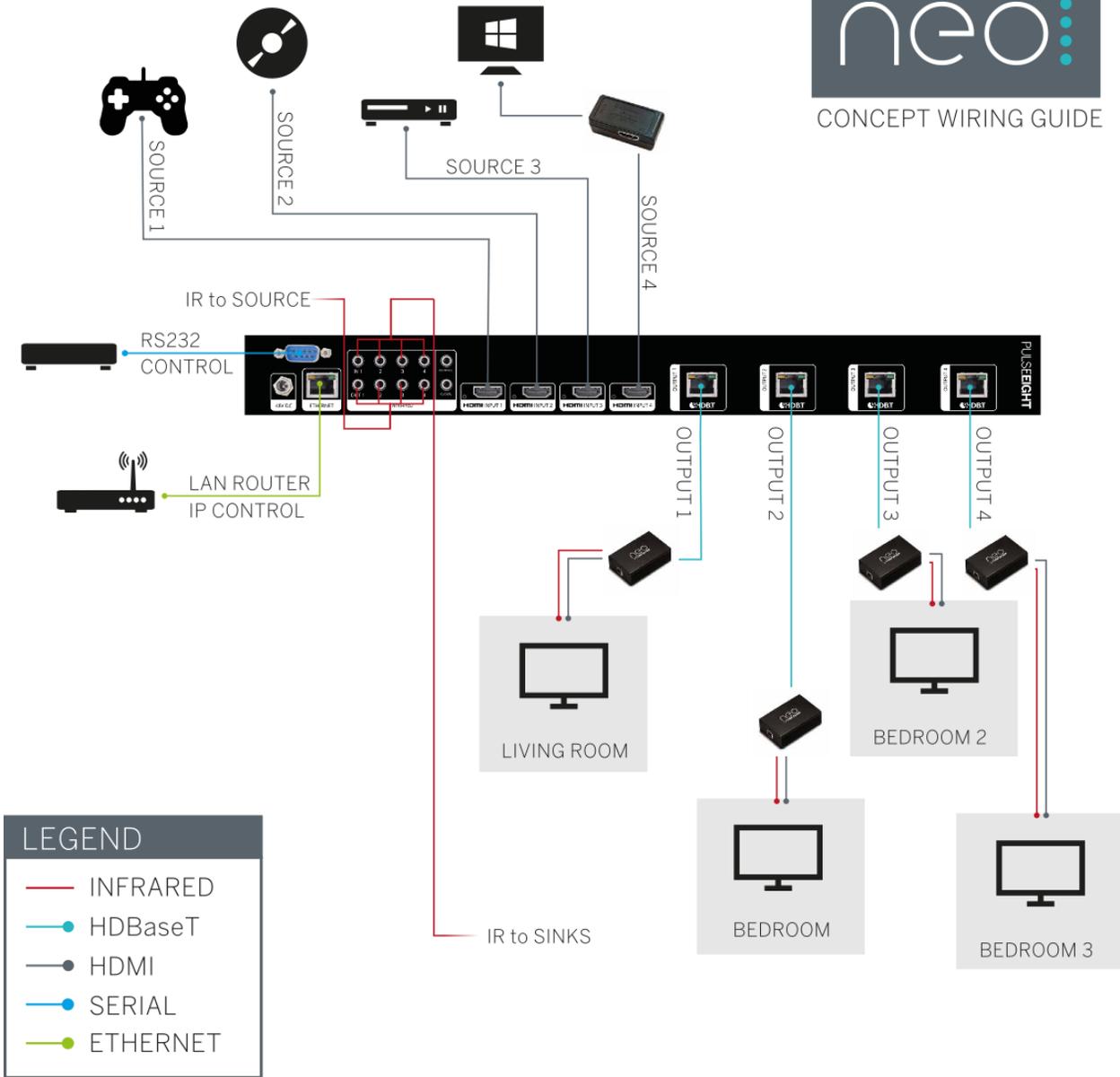
# EDID Management

### ➤ Please ensure that you have read and followed the Quick Installation Guide

IMPORTANT: A Neo matrix is designed to be constantly ON and connected to an active internet connection at all times. It will operate correctly when not connected to a network (or the internet) but certain functions will not be available.

1. Connect a standard Ethernet cable (while the matrix is disconnected from the mains power source) from your router or network switch, cross over cables are not supported.
2. Connect your source devices into the HDMI input ports using a High Speed HDMI cable or better (not supplied).
3. Sink devices are connected via category cable from the Output port to the supplied HDBaseT receiver. Complete the connection from the receiver to the Sink device (i.e. your TV) via a HDMI cable.
4. Once all connections have been made, ensure the supply's DC locking connector is firmly inserted and the threaded barrel is securely tightened.
5. Turn the matrix on by connecting the power supply to the mains.

# Example of Neo4:Basic Concept Wiring Guide

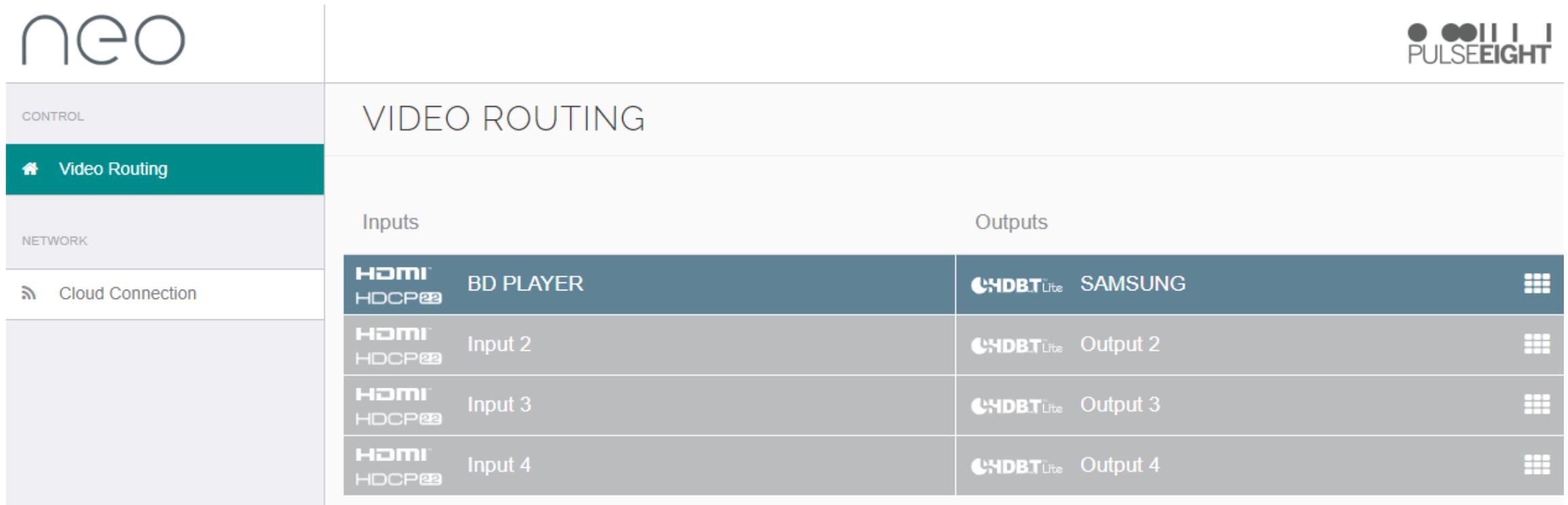


LEGEND	
—	INFRARED
—●—	HDBaseT
—●—	HDMI
—●—	SERIAL
—●—	ETHERNET

# Go to Local Monitoring Network

If there is a single Neo matrix connected to the local network then using a computer/laptop on the same network, type [www.gotomymatrix.com](http://www.gotomymatrix.com) into your browser.

The browser should take you to the IP address of the Local Monitoring Network for your matrix where you should be able to see the Video Routing Options



The screenshot displays the Neo matrix web interface. On the left is a navigation sidebar with the 'neo' logo at the top. Below the logo are three main sections: 'CONTROL' with a 'Video Routing' option highlighted in teal; 'NETWORK' with a 'Cloud Connection' option; and a bottom section with a Wi-Fi icon. The main content area is titled 'VIDEO ROUTING' and features a table with two columns: 'Inputs' and 'Outputs'. The 'Inputs' column lists four HDMI inputs (HDMI HDCP2.2) labeled 'BD PLAYER', 'Input 2', 'Input 3', and 'Input 4'. The 'Outputs' column lists four HDBT Lite outputs labeled 'SAMSUNG', 'Output 2', 'Output 3', and 'Output 4'. Each row in the table includes a small grid icon on the right side. The 'PULSEEIGHT' logo is visible in the top right corner of the interface.

Inputs		Outputs	
HDMI HDCP2.2	BD PLAYER	HDBT Lite	SAMSUNG
HDMI HDCP2.2	Input 2	HDBT Lite	Output 2
HDMI HDCP2.2	Input 3	HDBT Lite	Output 3
HDMI HDCP2.2	Input 4	HDBT Lite	Output 4

Got to **Cloud Connection** and click on the **Admin** link at the bottom of the page.

It will request a password, please type *admin* if this is first time use of the matrix and/or password has not be changed

The screenshot shows the NEO Pulse-Eight web interface. On the left is a navigation sidebar with 'CONTROL' and 'NETWORK' sections. Under 'CONTROL', 'Video Routing' is visible. Under 'NETWORK', 'Cloud Connection' is highlighted. The main content area is titled 'MONITORING' and shows 'hourly health check of your system'. It displays 'Serial P8SN' and 'System Status Healthy' with a green bar. Below this is the 'CLOUD CONNECTION' section, titled 'connection to the Pulse-Eight device cloud'. It shows 'Connection Status Connected' and an 'Alexa' section with the text 'This system can automatically integrate with Alexa Voice Services.' and a 'Setup Voice Services' button. At the bottom, the footer contains '© 2019 PULSE-EIGHT All rights reserved' and a red-bordered link labeled '[Admin]'.

Once in the admin section of the **Local Monitoring** site, in the Video Routing tab section, you can click on the HDMI input symbol (as shown below) for whichever input you want to change the EDID.

The screenshot shows the NEO PulseEight administration interface. The left sidebar contains navigation options under 'ADMINISTRATION' and 'CONNECTED DEVICES'. The main content area is titled 'VIDEO ROUTING' and includes a sub-header 'select a port to see its routing path'. Below this, there are two columns: 'Inputs' and 'Outputs'. The 'Inputs' column lists four HDMI sources, and the 'Outputs' column lists four HDMI displays and two mirror displays. A red circle highlights the menu icon (three horizontal lines) next to the first input, 'Source 1 > BD PLAYER', with a red arrow pointing to it.

Inputs	Outputs
<b>HDMI</b> HDCP2.3 Source 1 > BD PLAYER	<b>HDMI</b> HDCP2.3 Display 1 > SAMSUNG
<b>HDMI</b> HDCP2.3 Source 2 > Input 2	<b>HDMI</b> HDCP2.3 Display 2 > Output 2
<b>HDMI</b> HDCP2.3 Source 3 > Input 3	<b>HDMI</b> HDCP2.3 Display 3 > Output 3
<b>HDMI</b> HDCP2.3 Source 4 > Input 4	<b>HDMI</b> HDCP2.3 Display 4 > Output 4
	<b>HDMI</b> HDCP2.3 Mirror Display 1 > Mirror 1 (Mirroring Output 1)
	<b>HDMI</b> HDCP2.3 Mirror Display 2 > Mirror 2 (Mirroring Output 2)

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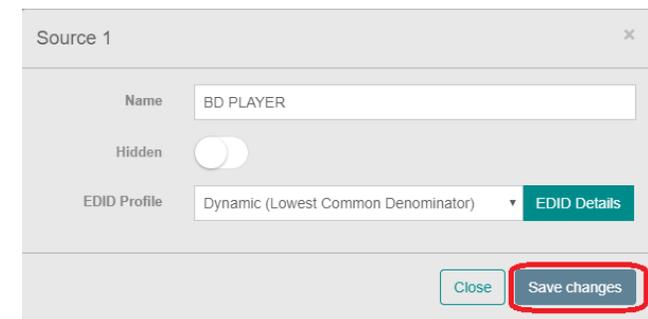
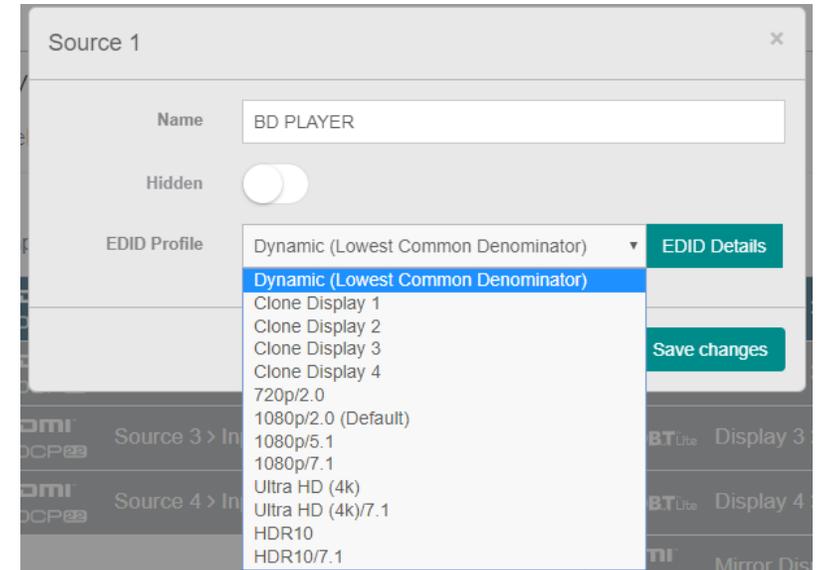
# Set EDID Profile

- In the EDID profile for that input, you can now select a range of options:
  - Dynamic (Lowest Common Denominator) → It will set the EDID to only support the resolutions supported by all the displays connected to the outputs
  - Clone Display X → Copies the same EDID as TV attached to the output X
  - 1080p/4K → It sets the EDID to support 720p/1080p/4K as the maximum, preferred resolution supported as well as the audio support

- Make sure to save your changes.

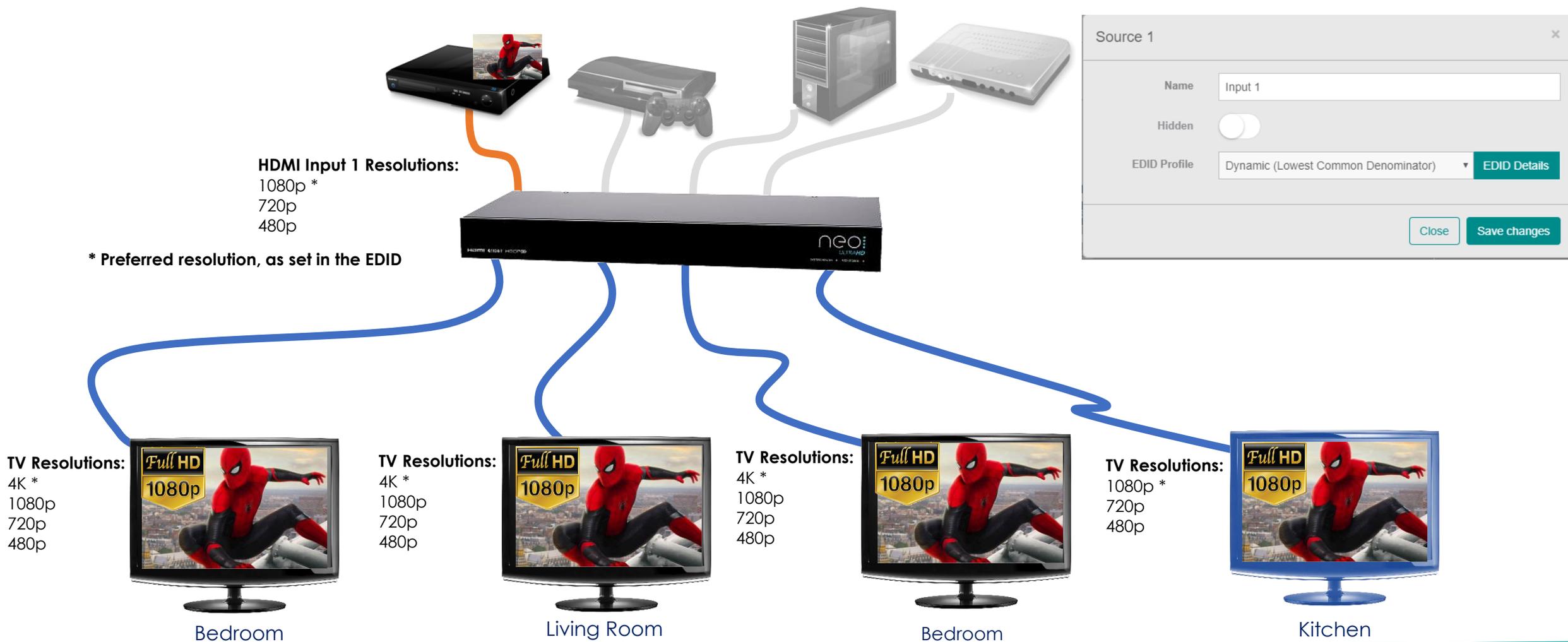
*Hint: We recommend that after changing EDID Profile that the following procedure is followed to ensure the changes take effect:*

1. Turn ON all TV's
2. Power OFF the Matrix
3. Remove all Sources but leave the Network connected
4. Power ON the Matrix - wait for the x3 Green Lights.
5. Re-connect each of the sources, one at a time.
6. Once all added, then Power on/off the sources as required



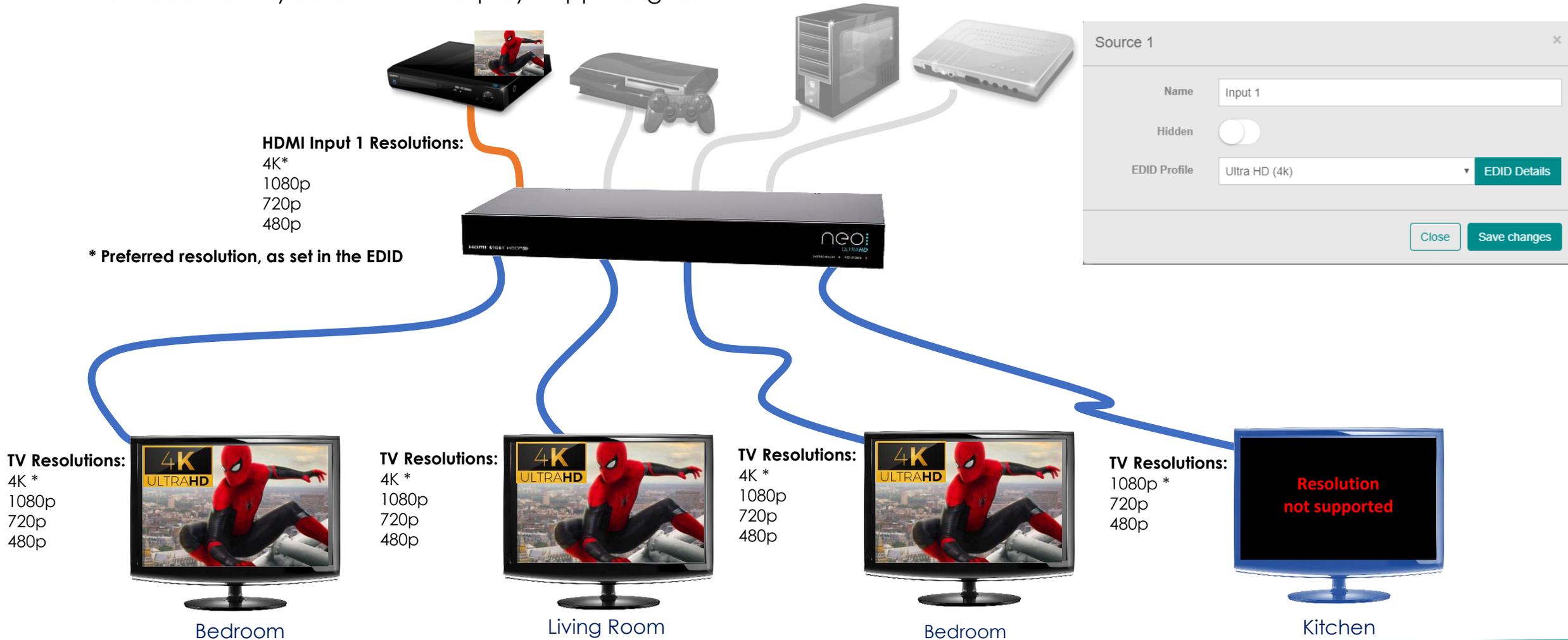
# Example: Dynamic Setting

- In this scenario, the HDMI Input #1 will limit the maximum resolution of the source to 1080p
- The 1080p video will be shown on all displays



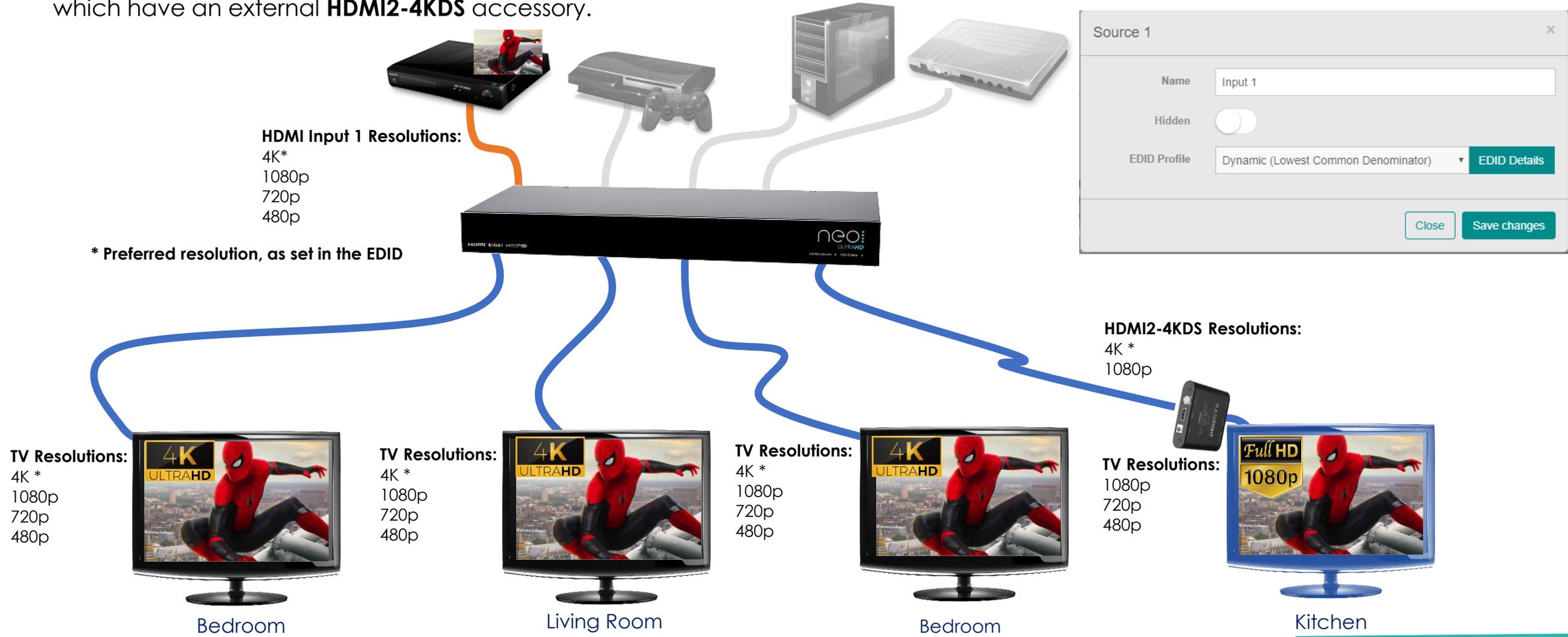
# Example: UltraHD 4K Setting

- In this scenario, the HDMI Input #1 will set the maximum and preferred resolution to 4K
- The 4K video will only be shown on displays supporting 4K



# Example: Dynamic or UltraHD 4K setting, with a 4K Downscaler

- In this scenario, the HDMI Input #1 will set the maximum and preferred resolution to 4K
- The 4K video will only be shown on displays supporting 4K, and it will be downscaled to 1080p on the FullHD TV which have an external **HDMI2-4KDS** accessory.



**Any Questions?**