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DENON®

HDMI Diagnostics and Troubleshooting



Introduction \ / How to operate \ / Cable Test \ / Limit mode \ / Log & EDID \ / Troubleshooting

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HDMI Diagnostics and Troubleshooting

The objective of this guide is provide support for users experiencing HDMI connectivity issues.

This guide should be used in combination with the AV Receiver's HDMI DIAGNOSTICS feature.

- 1 The HDMI diagnostics feature is used to correct the following issues.
 - No picture from connected TV.
 - No audio from the AV Receiver (Speaker)
 - Intermittent picture or artifact (video snow, dots on the top of the picture)
 - Intermittent audio or noise.

2 How to use.

- If the issues mentioned in 1 occur, press the button on the front panel of the AV receiver to enter HDMI DIAGNOSTICS mode.
- Use the buttons on the front panel or the included remote control to operate the HDMI DIAGNOSTICS function.
- Follow the guidance displayed in the front display to resolve issues using Auto Test in HDMI DIAGNOSTICS.
- Video Test and Audio Test in HDMI DIAGNOSTICS can be used to perform various tests manually according to the displayed error code.

3 What can be done with this feature?

- Find issues with the AV Receiver's hardware (Self diagnostics)
- Find issues with external equipment and settings.
- Find issues with HDMI cable capabilities and connection.
- Restrict EDID or HDCP on the AV receiver to resolve issues caused by incompatibility with the AV receiver.

NOTE

- The HDMI DIAGNOSTICS feature is a tool to help troubleshoot and solve common HDMI issues. It is not guaranteed to fix all issues.
- This feature is for people with knowledge about HDMI and Audio Video equipment.

Compatible Models

The following Denon AV Receiver products support the HDMI Diagnostics feature.

	· ·
Products	
AVR-S730H	
AVR-S930H	
AVR-X1400H	
AVR-X2400H	



How to operate

Starting HDMI DIAGNOSTICS Mode

Turn on the AV Receiver.

If a malfunction occurs, HDMI DIAGNOSTICS mode can be started without turning off the power.

Press and hold the main unit's buttons [A] and [B] at least 3 seconds until "HDMI DIAGNOSTICS" appears on the front panel display.

Model	Button [A]	Button [B]
AVR-S730H		
AVR-S930H	ZONE2	TUNER
AVR-X1400H	SOURCE	PRESET CH -
AVR-X2400H		

• Front panel display sample (e.g. AVR-X2400H)

HDMI DIAGNOSTICS



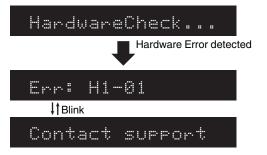
 HDMI DIAGNOSTICS mode cannot be entered from the Setup Menu or Setup Assistant. Close the menu first. When starting the HDMI DIAGNOSTICS mode, the AV Receiver will automatically start the Hardware Self Diagnostics Test to check whether hardware failure occurs.

If there are no errors, the AV Receiver will show the HDMI Diagnostics menu on the front panel display.

If the hardware error is detected, the AV Receiver will show an error code on the front panel display. (e.g. H1-01)

In this case, the AV Receiver can not continue the HDMI Diagnostics mode. Please turn off the AV Receiver and contact customer service in your area. (For contact service, refer to "Customer Support" (Pp. 9))

• Front panel display sample (e.g. AVR-X2400H)





HDMI DIAGNOSTICS Menu

When the Hardware Self-Diagnostics Test is passed, the AV Receiver displays the HDMI DIAGNOSTICS Menu below.

- **1** Use $\triangle \nabla$ to select the menu to be set or operated, then press ENTER.
- Front panel display sample (e.g.AVR-X2400H)

1 Auto Test

Item	Description	page
1 Auto Test	The AV Receiver assists you in identifying the cause of any HDMI issues using Video Test, Audio Test, Cable Test or the limit mode feature according to the guidance indicated on the front panel display.	_
2 Video Test	Diagnose video-related issues. If an error is detected, please refer to the flow of the corresponding error number in the "Trouble shooting Guide".	<u>20</u>
3 Audio Test	Diagnose audio-related issues. If an error is detected, please refer to the flow of the corresponding error number in the "Trouble shooting Guide". This cannot be selected if the currently selected input source is an audio type source.	<u>20</u>
4 Cable Test	Check HDMI-Cable integrity and signal (resolution) capability.	<u>10</u>
5 Limitation Mode (Limit Mode)	Set settings to limit the AV Receiver's Video or Audio EDID. There are instances where limiting the AV Receiver video or audio EDID will fix various issues. Please try each limit settings in accordance with the "Trouble shooting Guide". If you want to clear the limit settings, please refer to "3.Initialization".	<u>12</u>
6 Log/EDID	Save the Logging data to USB file or network server. Please use it when receiving the requested by customer service.	<u>19</u>
7 Exit	Exit the HDMI Diagnostic mode	_



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Control Keys for Navigation

You can operate each menu using the Cursors, Enter and Back buttons on the remote control or the main unit.

In the case of models that there is no cursor button on the main unit, the following buttons will work as the cursor buttons during HDMI Diagnostics mode.

	Main unit buttons			
RC buttons	AVR-S730H AVR-S930H	AVR-X1400H AVR-X2400H		
Up	TUNE +	ZONE2 SOURCE		
Down	TUNE -	ZONE2 ON/OFF		
Left	TUNER PRESET CH -	TUNER PRESET CH -		
Right	TUNER PRESET CH +	TUNER PRESET CH +		
ENTER	DIMMER	DIMMER		
BACK	STATUS	STATUS		

To exit HDMI DIAGNOSTICS Mode

To exit the HDMI Diagnostics mode, please select "7 Exit" or turn off the AV Receiver.

NOTE

• The HDMI DIAGNOSTICS feature does not support ZONE2 related Video and Audio issues.



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Initialization

The Limit setting in the HDMI DIAGNOSTICS mode is stored per input.

Please note that the limit mode settings backup memory will not be initialized (reset) using the initialization (reset) method described in the instruction manual.

There are two ways to reset the limit mode settings.

Reset option in HDMI DIAGNOSTICS mode

Limit mode settings that are made in the HDMI Diagnostics mode are reset to the factory default values.

However, settings other than HDMI Diagnostics (e.g. Speaker setup, Video Setup, Audio Setup) are not reset.

- **1** Select "5 Limit Mode" from the HDMI Diagnostics menu.
- 2 Select "Reset" from the Limit mode menu.
- 3 Select "All source", then press ENTER.

Factory Reset mode

All settings including the Limit mode setting of HDMI Diagnostics mode are reset to the factory default values. (except for Network setup)

- 1 Press the POWER button to turn off the AV Receiver.
- While holding down buttons [A] and [B] simultaneously, press POWER button.
- 3 Release the buttons after confirming that the front panel display flashes at 1-second intervals.

Model	Button [A]	Button [B]
AVR-S730H AVR-S930H	TUNER PRESET CH +	TUNE -
AVR-X1400H AVR-X2400H	ZONE2 SOURCE	DIMMER



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Customer Support

If you need additional help in solving problems, contact the nearest HDMI DIAGNOSTICS customer service in your area.

For US & Canada

■ Denon US

https://usa.denon.com/us/support/home

■ Denon Canada

https://ca.denon.com/ca/support/home

For Europe

■ Denon UK

https://www.denon.co.uk/uk/support/home

■ Denon Germany

https://www.denon.de/de/support/home

■ Denon Netherland

https://www.denon-hifi.nl/nl/support/home

■ Denon France

https://www.denon.fr/fr/support/home

■ Other (EU)

http://www.denon.com/pages/Distributor-Network-Details.aspx?Regld=2

For the other region

■ Denon

http://www.denon.com



To check the HDMI Cable integrity, signal quality and resolution capability.

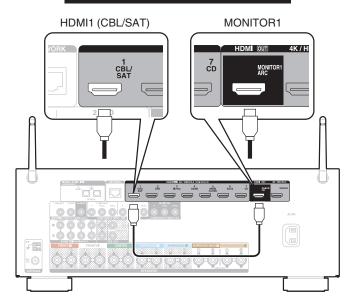
Procedure

1 Use △∇ to select "4 Cable Test" in the HDMI Diagnostics mode, then press ENTER.

4 Cable Test

2 Connect the HDMI cable to be tested to HDMI1(CBL/SAT) and MONITOR(1) OUT as shown in the figure, then select "Connect the cable between HDMI1 IN and MONITOR(1) OUT, then press ENTER".





3 Select "Start", then press ENTER.

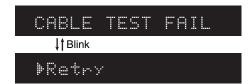
▶CableTest Sta<u>rt</u>

4 "Testing..." appears in the front panel display, and the test starts.

Testing...

The AV Receiver shows Cable test result on the front panel display.

To perform the cable test again, select "Retry" and press ENTER.



6 To exit the cable test, remove the tested HDMI cable, then use ∇ to select "Exit" and press ENTER.





Test Item & Test Result

Test whether there are issues in the HDMI cable communication line and whether the line is compatible with the transfer domains of the resolutions in the table below. After you finish the cable test, if you still have any issues, please try the following solution.

- 1 Replace the HDMI cable.
- 2 To use this cable in your system, please set the limit mode to the resolution that was passed in the following test.

Cable Test Item			Decult			
Communication	Video Resolution (RGB / 8bit)					Result (Front panel display)
line	4k60	4k30	1080p	720p	480p	(Front paner display)
PASS	PASS	PASS	PASS	PASS	PASS	CABLE TEST PASS
PASS	FAIL	PASS	PASS	PASS	PASS	4K(3G) PASS / 4K(6G) FAIL
PASS	FAIL	FAIL	PASS	PASS	PASS	1080p PASS / 4K(3G) FAIL
PASS	FAIL	FAIL	FAIL	PASS	PASS	720p PASS / 1080p FAIL
PASS	FAIL	FAIL	FAIL	FAIL	PASS	480p PASS / 720p FAIL
PASS	FAIL	FAIL	FAIL	FAIL	FAIL	CABLE TEST FAIL
FAIL						CABLE TEST FAIL



To limit the Video/Audio output try the (EDID) or HDCP method to properly display picture on the TV and to correct sound issues.

Limit Mode Menu

The AV Receiver has various options for Limit Mode.

These limit modes are stored for each Video input source.

• Front panel display sample (e.g.AVR-X2400H)

1 Source:CBL/SAT

Item	Description
1 Source Select (Source)	The input source can be changed from this menu.
2 Max Resolution (MaxRes.)	Sets the video input/output resolution restrictions supported by the AV receiver.
3 HDCP2.2 (HDCP)	This sets the HDCP limit of the AV Receiver to HDCP ver. 1.4. This can be set for any input with HDMI assigned to it.
4 HDR	This limits (disables) the HDR capability of the AV Receiver. This can be set for any input with HDMI assigned to it.
5 Deep Color (DeepC)	This limits (disables) Deep Color capability of the AV Receiver. This can be set for any input with HDMI assigned to it.
6 Dolby Vision (DolbyV)	This limits (disables) the Dolby Vision capability of the AV Receiver. This can be set for any input with HDMI assigned to it.
7 DTS:X	This limits (disables) DTS:X capability. This can be set for any input with HDMI assigned to it.

Item	Description
8 Dolby Atmos (Atmos)	This limits (disables) Dolby Atmos capability. This can be set for any input with HDMI assigned to it.
9 PCM 2ch only (PCM2ch)	This limits the audio input capability to PCM 2ch only. This can be set for any input with HDMI assigned to it. When PCM 2ch only is set, DTS:X and Dolby Atmos are also restricted.
10 Reset	The setting content of Limit Mode is initialized.
11 Exit	Exit Limit Mode and return to HDMI DIAGNOSTICS mode.

Source Selection

You can switch inputs to check other video sources.

The input source encoder on the unit or remote control unit can be used to change the input source.

When the current input source is audio only, with no video assignment, "Audio" is displayed.



Setting

Max Resolution

Max Resolution has 5 selectable items.

No Limit	No limit. The AV Receiver works up to 4K(6G).
4K(3G) (Default):	This sets EDID information and max resolution of the video output from the AV Receiver to up to 4K(3G)
1080p:*2	This sets EDID information and max resolution of the video output from the AV Receiver to up to 1080p (60/50).
720p:*1	This sets EDID information and max resolution of the video output from the AV Receiver to up to 720p, 1080i or 1080p 24. When 720p is set, the resolution may be 1080i for some playback devices or content.
480p:	This sets EDID information and max resolution of the video output from the AV Receiver to up to 480p or 576p.

- *1 On the AVR-S730H and AVR-X1400H, "720p" is the default setting for audio input sources such as Tuner and HEOS Music. "No Limit", "4K(3G)" and "1080p" cannot be set for these sources.
- *2 On other models, "1080p" is the default setting for audio input sources such as Tuner, Phono and HEOS Music. "No Limit" and "4K(3G)" cannot be set for these sources.



- When you set a resolution in the "Max Res." setting, you will not be able to change to a higher resolution in the AVR Setup Menu-Video-Output settings.
- When the Max Resolution settings are changed from the default values, "Custom" is displayed in the AVR Setup Menu – Video – 4K Signal Format. The Max Resolution settings take priority when "Custom" is set.

[Relationship between Max Resolution setting and Support Resolution]

Support Resolution	Color Space	Pixel Depth	Max Resolution setting				
			No Limit (4K(6G))	4K(3G)	1080p	720p	480p
400:/	RGB	04.00.006;	~	~	~	~	~
480i/p, 576i/p	YCbCr4:4:4	24,30,36bit					
	YCbCr4:2:2	36bit	~	~	~	~	~
1000:	RGB	-24,30,36bit	~	~	~	~	-
1080i 60/50	YCbCr4:4:4	24,30,30011					
	YCbCr4:2:2	36bit	~	~	~	~	-
	RGB	-24,30,36bit	~	~	~	~	-
720p 60/50	YCbCr4:4:4	724,30,30011					
00/00	YCbCr4:2:2	36bit	~	~	~	~	-
	RGB	04.00.001-:+	~	~	~	~	-
1080p 24	YCbCr4:4:4	24,30,36bit					
	YCbCr4:2:2	36bit	~	~	~	~	-
1000	RGB	24,30,36bit	~	~	~	-	-
1080p 60/50	YCbCr4:4:4	24,30,30011					
00/30	YCbCr4:2:2	36bit	~	~	~	-	-
4K24p,	RGB	24bit	~	~	-	-	-
4K30p,	YCbCr4:4:4	30,36bit	~	-	-	-	-
4K25p	YCbCr4:2:2	36bit	~	~	-	-	-
	YCbCr4:2:0	24bit	~	~	-	-	-
4K60p, 4K50p	1 00014:2:0	30,36bit	~	-	-	-	-
	RGB	-24bit	~	-	-	-	-
	YCbCr4:4:4	240II					
	YCbCr4:2:2	36bit	~	-	-	-	-



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HDCP2.2 / HDR / Deep Color / Dolby Vision / DTS:X / Dolby Atmos / PCM 2ch only

You can set a limit of each funcition of the AV Receiver according to your situation.

No Limit (Default):	No limit.
Limit:	Limit (Disable) each function by changing EDID and HDCP setting information.

Reset

You can reset the limit mode settings to the factory default values. Settings other than limit mode are not reset.

Current source ***:	Reset the limitation setting only for the current source.
All sources:	Reset the limitation setting for all sources.
Cancel:	Cancel this menu and go back to the limitation mode selection menu.

(** is current source name)



- You can reset the default settings by setting "Factory Reset mode". (<u>P. 8</u>)

 Please note that the Limit Mode setting will not be reset by performing the process described in "Resetting factory settings" in the owner's manual.
- You can easily check whether HDMI-related functions are limited for the currently selected input source in the AVR Setup Menu-General Information ZONE MAIN ZONE.

These are not displayed when there are no limitations.



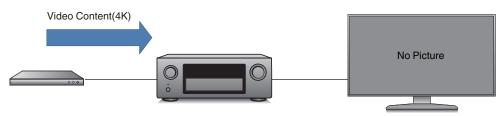
[&]quot;HDMI Limitation Mode – 4K Standard" is displayed when the 4K Signal Format is set to "Standard" (4K3G).

[&]quot;HDMI Limitation Mode – On" is displayed when any of the settings are limited in the HDMI Diagnostics Limitation Mode.

Procedure (Max Resolution)

When the TV doesn't play a video's content (4K), there are two approaches to this issue.

- 1. To change to a new HDMI cable.
- **2.** To set the limit mode (Max Resolution). As a result, the player outputs a lower resolution.



1 Use △▽ to select "5 Limit Mode" in the HDMI DIAGNOSTICS mode, then press ENTER.

5 Limit Mode

2 Use $\triangle \nabla$ to select "2 MaxRes:***", then press ENTER.

("***" indicates the currently set backup information. In the example shown, "4K(3G)" is displayed.)

2 MaxRes:4K(3G)

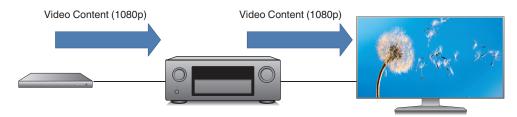
3 Select the maximum resolution to be set and press the ENTER button.

(In the example shown the setting is changed from "4K(3G)" to "1080p". "*" indicates the currently set backup information.)

The AV Receiver limits the Input Resolution by changing the EDID.



4 Check whether the video is output.





5 The video is displayed. Save the settings if necessary.

To reflect the settings only on the current input source, select "Current source" and press the ENTER button.

To reflect the same settings on all input sources, select "All source" and press the ENTER button.



The system returns to the Limit Mode selection menu and the changed setting content is displayed.

2 MaxRes:1080p



Tips for Limit Mode Setup

The restriction modes may solve the issue when used in the following cases. Use them according to the issue that is occurring.

2 Max Resolution

- When your TV supports 4K6G (or 4K3G) and the video's output is 4K6G (or 3G) from the AV Receiver, and if the HDMI Input/output cable can not support 4K6G (or 4K3G), it may cause some issues (e.g. no Video output, no Audio, Video noise, or Video Blinking)
- When the AV Receiver connects to a HDMI 2.0 compatible TV and a specific HDMI 2.0 incompatible player, there are some cases that the player works in DVI mode, the audio will not work and the video will be in RGB format.
- When a TV's EDID method are not standard or correct, a video will not be displayed.

There is a possibility that a video's output can properly be fixed by limiting the max video input/output resolution of the AV Receiver.

3 HDCP 2.2

- When an HDCP1.4 compatible TV and HDCP2.2 compatible player are connected through the AV Receiver, and Stream Type1 (HDCP 2.2. protected) content is attempted to be played, the AV Receiver does not play the video and shows a caution popup. (This is correct behavior based on HDCP)
- When HDCP1.4 compatible TV and HDCP2.2 compatible player are connected through the AV Receiver, and HDCP 1.4 content is played, there are some cases in which a player outputs HDCP 2.2 contents to the AV Receiver.

There is a possibility that a source/player works with HDCP 1.4 and video output can be limited by the HDCP of the AV Receiver to version 1.4.

4 HDR

• There are some cases in which a video's color is incorrect when connecting an HDR compatible projector, and HDR content is played.

There is a possibility that the video's color can be corrected by limiting the HDR capability of the AV Receiver.

5 Deep Color

 When connecting a deep color compatible TV and a player through the AV Receiver, some HDMI cables may have performance limitations that could cause an issue (e.g. no Video output, no Audio, noise or Video Blinking)

There is a possibility that video and audio can be output properly by limiting (disabling) the deep color capability of AV Receiver.

6 Dolby Vision

• There are some cases in which a video's color is incorrect when connecting an Dolby Vision compatible projector, and Dolby Vision content is played.

There is a possibility that the video's color can be corrected by limiting the Dolby Vision capability of the AV Receiver.



7 DTS:X

 When a DTS:X compatible AV Receiver connects to a specific older DTS:X incompatible player, and it plays DTS-HD, there are some cases in which a player plays DTS Surround, not DTS-HD.

There is a possibility that the player will play DTS-HD correctly by limiting the DTS:X capability of AV Receiver.

8 Dolby Atmos

 When a Dolby Atmos compatible AV Receiver connects to a specific older Dolby Atmos incompatible player, and it plays Dolby TrueHD, there are some cases in which a player plays Dolby Digital, not Dolby TrueHD.

There is a possibility that the player will play Dolby TrueHD correctly by limiting Dolby Atmos capability of the AV Receiver.

9 PCM 2ch only

 When the AV Receiver connects to a specific source device, audio format or channel switching (e.g. Dolby Digital ->PCM, 2ch -> 5ch), or information from a source device is not correct, there are some cases in which the sound from the AV Receiver drops out or becomes noise.

There is a possibility that audio output can properly be fixed by limiting the audio input of the AV Receiver to PCM 2ch.



Save logs or EDID information on a USB memory device or our server via the network.

This menu is for developers. Please use it only when requested by customer service.

Use a USB memory device formatted to FAT32 format.

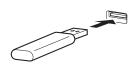
Check the network connection in advance before saving a log on the network server.

Procedure

1 Use △∇ to select "6 Log/EDID" in the HDMI Diagnostics mode, then press ENTER.

6 Log/EDID

When saving a log to a USB Memory Device, connect the USB Memory Device to the AV receiver, select "Start" and press the ENTER button.







 When saving a log to the server via the network, select "Start" without connecting a USB.



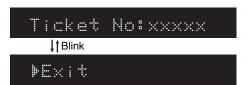
When saving the log to the USB memory device is complete, "USB SUCCESS" is displayed on the front display.

(Example log file name: "logs-xxxxxxxxxxxtar.gz")





• When saving the log via the network is complete, a 5-digit ticket number is displayed on the front panel display. Take a note of this number as you will need it when contacting the customer center.



4 Select "Exit" and press the ENTER button. Return to the HDMI DIAGNOSTICS menu.



Trouble shooting Guide for HDMI Diagnostics (Video Test, Audio Test, Auto Test)

If an error ID is displayed when running tests from the Video Test/Audio Test menus, check in accordance with the flow of the appropriate error ID number. If "PASS" is displayed even when the problem is not solved, refer to Audio/Video Flow "Other".

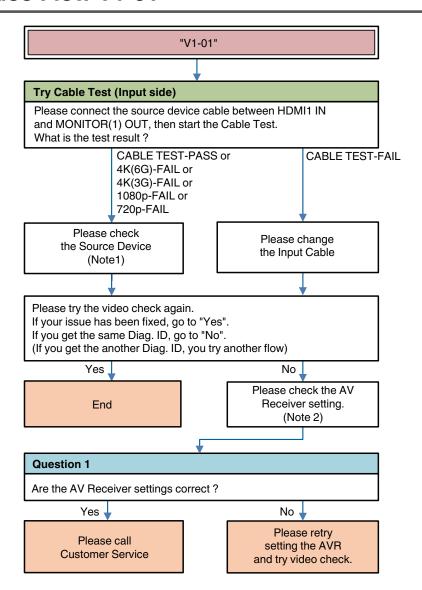
ID	Description		
	Video RX		
<u>V1-01</u>	Cannot detect the HDMI cable connected to the AVR input terminal (as detection of 5V from Source Device).		
<u>V1-02</u>	Cannot detect the HDMI signal from the source device at the AVR input terminal (as TMDS Rx PLL UnLock).		
<u>V1-03</u>	Cannot detect the HDMI signal from the source device at the AVR input terminal (TMDS Rx PLL Lock, but SCDT(CKDT) OFF).		
<u>V1-04</u>	Missing Video Info, or receiving Info Error (AVI Info does not exist).		
<u>V1-05</u>	HDMI signal has video timing Error (Timing is not correct).		
<u>V1-06</u>	Copyright Protection certification Error with Source Device. (HDCP Error).		
<u>V1-07</u>	HDCP2.2/Stream ID Type mismatch (ie. Stream ID = 1,but Monitor's HDCP = V1.4).		
<u>V1-08</u>	Mismatch between input resolution and the resolution that is supported by monitor.		
<u>V1-09</u>	Audio/Video MUTE command from Source Device is always ON.		
<u>V1-10</u>	Quality of HDMI Signal(TMDS) is bad.		



ID	Description
	Video TX (Monitor1)
<u>V2-01</u>	Miscommunication with Monitor at output terminal (HPD always low).
<u>V2-02</u>	Miscommunication with Monitor at output terminal (4K60 output setting error).
<u>V2-03</u>	Miscommunication with Monitor at output terminal (HPD continuous assert error).
<u>V2-04</u>	Miscommunication with Monitor at output terminal (Rx Sense continuous assert error).
<u>V2-05</u>	Cannot get Monitor information (EDID from Monitor).
<u>V2-06</u>	Copyright protection certification error with Monitor.(HDCP Error).
	Video TX (Monitor2)
<u>V3-01</u>	Miscommunication with Monitor at output terminal (HPD always low).
<u>V3-02</u>	Miscommunication with Monitor at output terminal (4K60 output setting error).
<u>V3-03</u>	Miscommunication with Monitor at output terminal (HPD continuous assert error).
<u>V3-04</u>	Miscommunication with Monitor at output terminal (Rx Sense continuous assert error).
<u>V3-05</u>	Cannot get Monitor information (EDID from Monitor).
<u>V3-06</u>	Copyright protection certification error with Monitor.(HDCP Error).
	Audio RX
<u>A1-01</u>	Audio Packet doesn't come from Source (DVI).
<u>A1-02</u>	HDMI Rx Information is not correct.
<u>A1-03</u>	Information mismatch HDMI device and DSP device (N,CTS, Channel Status, Audio Info, Layout).
<u>A1-04</u>	DSP Setting Finished, but Muted. Please call Customer Support.
PASS	No errors detected. See Audio/Video Flow "Other" if the issue is not resolved.



Video Flow V1-01



Description "V1-01": Cannot detect the HDMI cable connected to the AVR input terminal (as detection of 5V from Source Device).

Try *** :Item of AVR operation

Question * :Item of Question to answer user

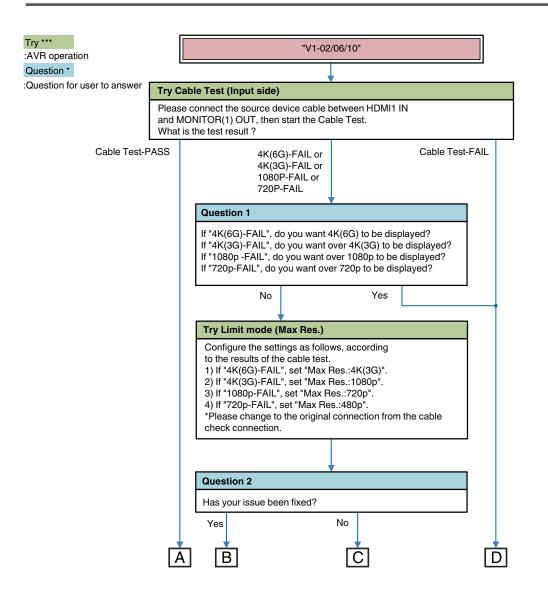
Note 1 : Source Device check item (For details (p. 40))

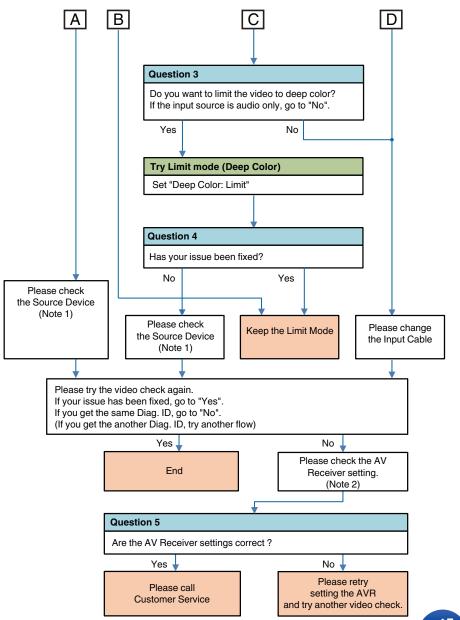
Note 2 : AV Receiver check item (For details (p. 40))



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Video Flow V1-02/06/10







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Description "V1-02": Cannot detect the HDMI signal from the source device at the AVR input terminal (as TMDS Rx PLL UnLock).

Description "V1-06": Copyright Protection certification Error with Source Device. (HDCP Error).

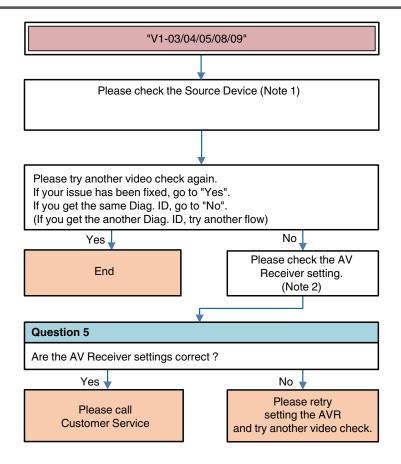
Description "V1-10": Quality of HDMI Signal(TMDS) is bad.

Note 1 : Source Device check item (For details (p. 40))

Note 2 : AV Receiver check item (For details (p. 40))



Video Flow V1-03/04/05/08/09



Description "V1-03": Cannot detect the HDMI signal from the source device at the AVR input terminal (TMDS Rx PLL Lock, but SCDT(CKDT) OFF).

Description "V1-04": Missing Video Info, or receiving Info Error (AVI Info does not exist).

Description "V1-05": HDMI signal has video timing Error (Timing is not correct).

Description "V1-08": Mismatch between input resolution and the resolution that is supported by monitor.

Description "V1-09": Audio/Video MUTE command from Source Device is always ON.

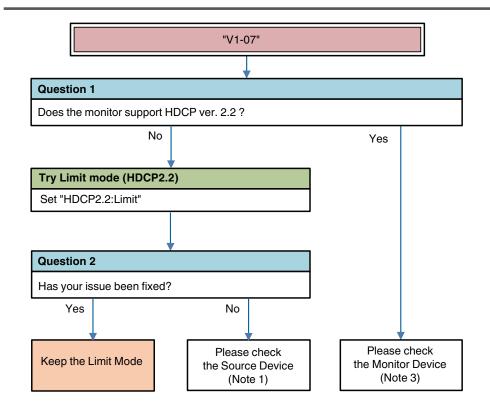
Question * :Question for user to answer

Note 1 : Source Device check item (For details (p. 40))

Note 2 : AV Receiver check item (For details (p. 40))



Video Flow V1-07



Description "V1-07": HDCP2.2/Stream ID Type mismatch (ie. Stream ID = 1, but Monitor's HDCP = V1.4).

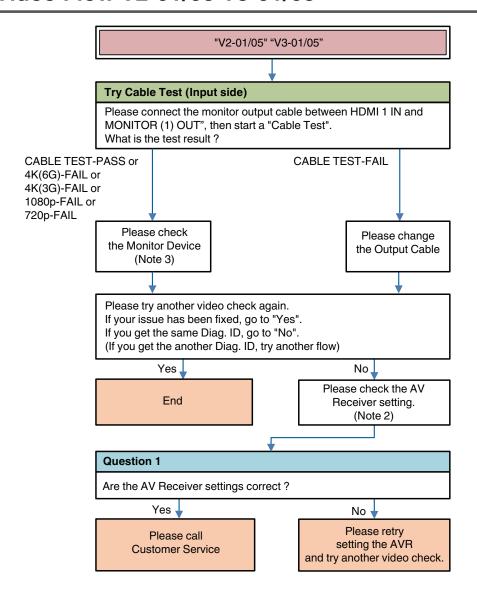
Try *** :AVR operation

Question * :Question for user to answer

Note 1 : Source Device check item (For details (<u>p. 40</u>)) Note 3 : Monitor Device check item (For details (<u>p. 40</u>))



Video Flow V2-01/05 V3-01/05



Description "V*-01": Miscommunication with Monitor at output terminal (HPD always low).

Description "V*-05": Cannot get Monitor information (EDID from Monitor).

Try *** :AVR operation V2-** : Monitor1 error Question * :Question to answer V3-** : Monitor2 error

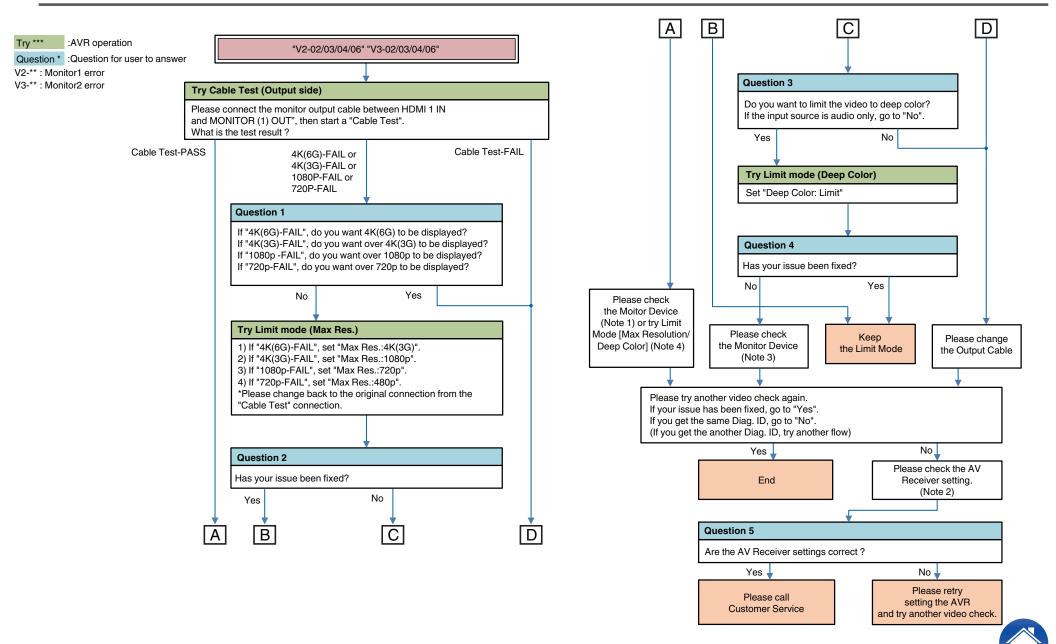
Note 2: AV Receiver check item (For details (<u>P. 40</u>))

Note 3: Monitor Device check item (For details (<u>P. 40</u>))



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Video Flow V2-02/03/04/06 V3-02/03/04/06



Description "V*-02": Miscommunication with Monitor at output terminal (4K60 output setting error).

Description "V*-03": Miscommunication with Monitor at output terminal (HPD continuous assert error).

Description "V*-04": Miscommunication with Monitor at output terminal (Rx Sense continuous assert error).

Description "V*-06": Copyright protection certification error with Monitor.(HDCP Error).

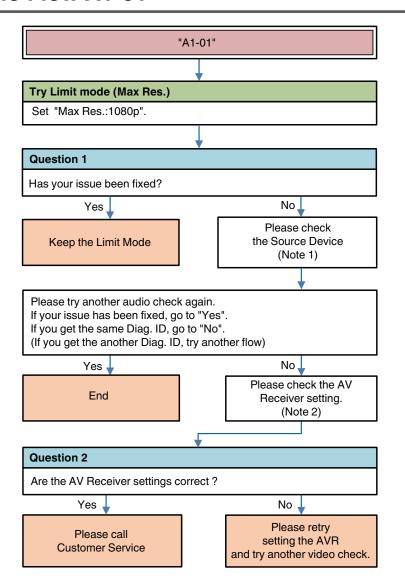
Note 2 : AV Receiver check item (For details (r p. 40))

Note 3: Monitor Device check item (For details (r p. 40))

Note 4: Try Limit Mode (For details (p. 40))



Audio Flow A1-01



Description "A1-01": Audio Packet doesn't come from Source (DVI).

Try *** :AVR operation

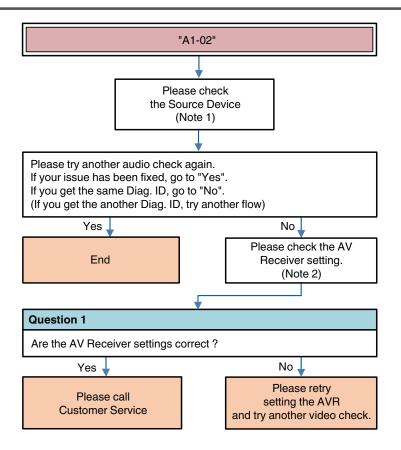
Question * :Question for user to answer

Note 1 : Source Device check item (For details (p. 40))

Note 2 : AV Receiver check item (For details (p. 40))



Audio Flow A1-02



Description "A1-02": HDMI Rx Information is not correct.

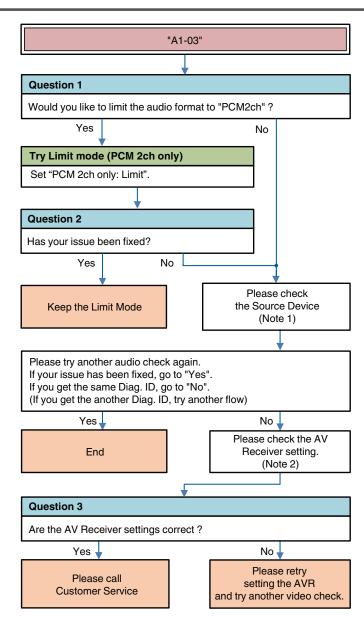
Question * :Question for user to answer

Note 1 : Source Device check item (For details (<u>p. 40</u>))

Note 2 : AV Receiver check item (For details (<u>p. 40</u>))



Audio Flow A1-03



Description "A1-03": Information mismatch HDMI device and DSP device (N, CTS, Channel Status, Audio Info, Layout).

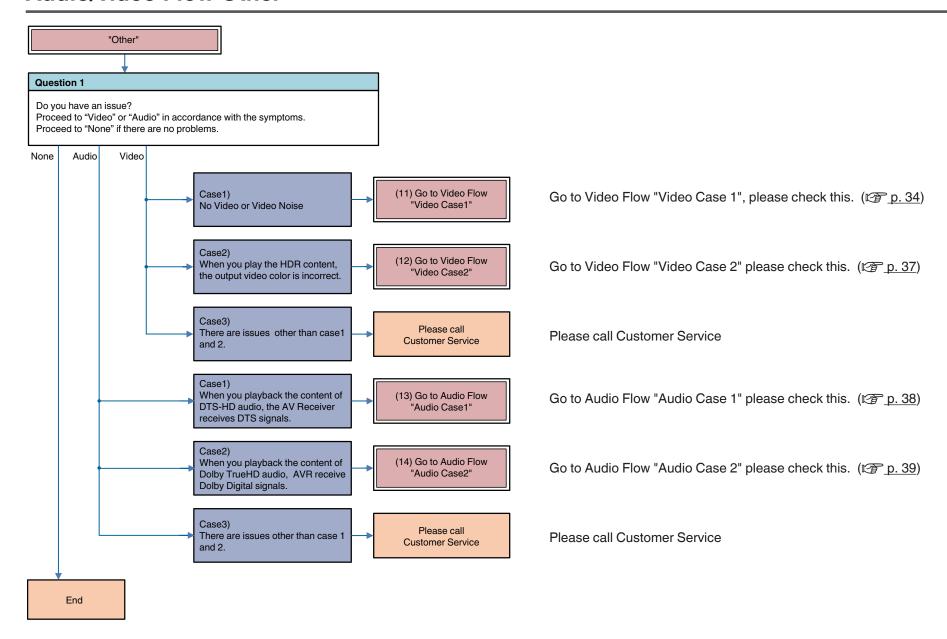
Try *** :AVR operation

Question * : Question for user to answer

Note 1 : Source Device check item (For details (<u>p. 40</u>)) Note 2 : AV Receiver check item (For details (<u>p. 40</u>))

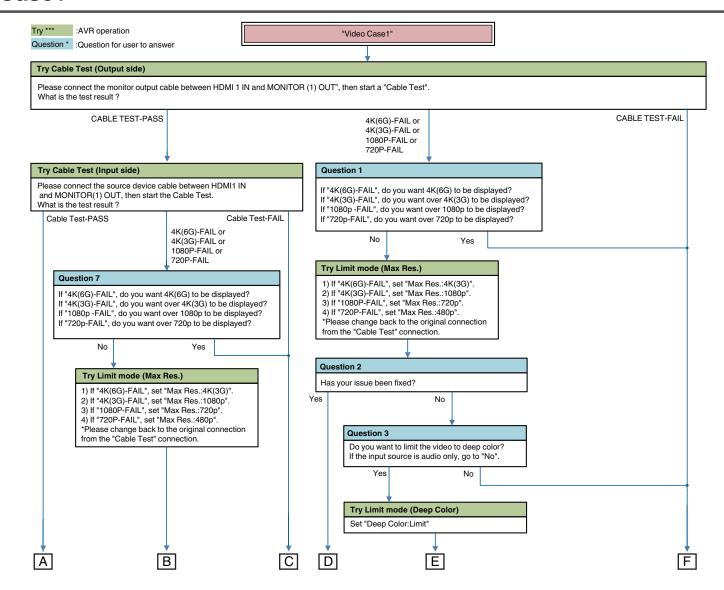


Audio/video Flow Other

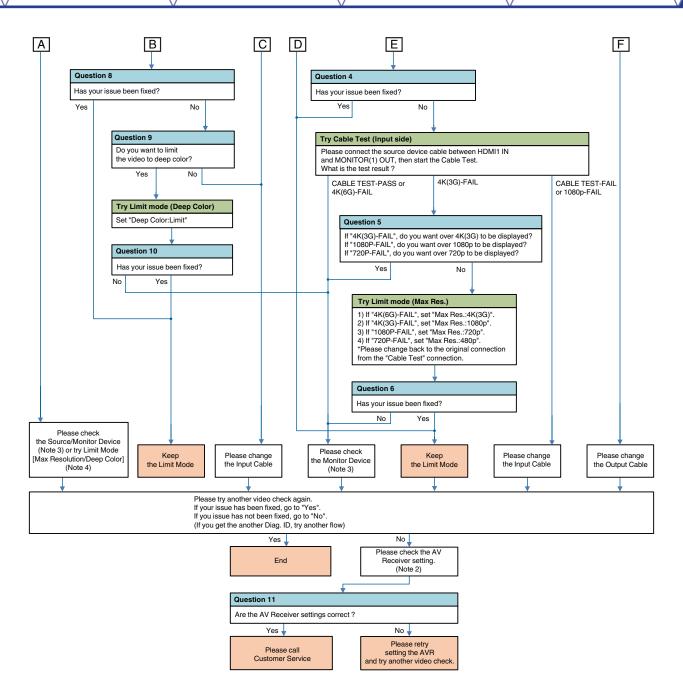




Other Video Case1









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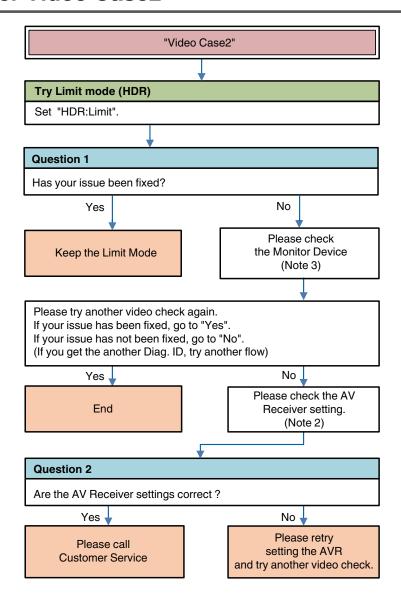
Note 2 : AV Receiver check item (For details (p. 40))

Note 3: Monitor Device check item (For details (r p. 40))

Note 4: Try Limit Mode (For details (@p. 40))



Other Video Case2



Try *** :AVR operation

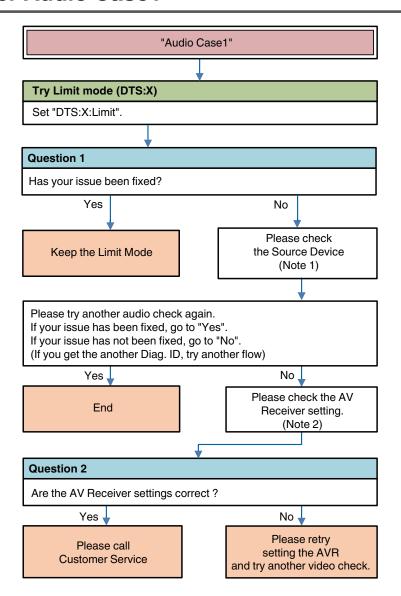
Question * :Question for user to answer

Note 2 : AV Receiver check item (For details (© p. 40))

Note 3: Monitor Device check item (For details (ref. p. 40))



Other Audio Case1



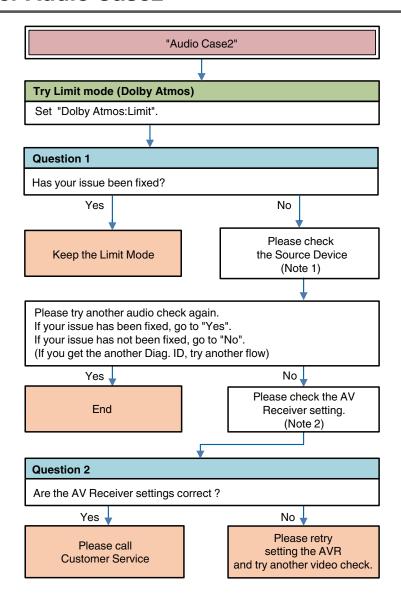
Try *** :AVR operation

Question * :Question for user to answer

Note 1 : Source Device check item (For details (<u>p. 40</u>)) Note 2 : AV Receiver check item (For details (<u>p. 40</u>))



Other Audio Case2



Try *** :AVR operation

Question * :Question for user to answer

Note 1 : Source Device check item (For details (<u>p. 40</u>))

Note 2 : AV Receiver check item (For details (<u>p. 40</u>))



Appendix

Note1: Source Device check item

- (Try) AC Off/On
- (Try) Standby/Power On
- (Check or change) Video setting (Resolution, etc...)
- (Check or change) Output Terminal setting (case of Dual output source device)
- Video check (connect the HDMI cable from Source device to the Monitor directly without the AV Receiver.)

Note 2: AV Receiver check item

- Menu Setting
 - Video → HDMI Setup → HDMI Audio Out
 - Video → Output Settings → HDMI Video Output
 - Video → Output Settings → I/P Scaler
 - Video → Output Settings → Resolution
 - Video → TV Format
 - Inputs → Input Assign
- Connection [Source device / AV Receiver / Monitor device]

Note3: Monitor Device check item

- (Try) AC Off/On
- (Try) Standby/Power On
- (Check or change) HDCP Ver. setting
- (Check or change) EDID (4K Limitation) setting
- (Check or change) limit of each HDMI input terminal
- Video check (connect the HDMI cable from Source device to the Monitor directly without AV Receiver.)

Note 4: Try Limit Mode

- Max Resolution setting
 Set a lower resolution
 NoLimit → 4K(3G) → 1080p → 720p → 480p
- Deep Color setting Set a "Limit"



