

## HDMI Encoder/Decoder

# NJR-L Distribution Amplifier

NJR-L13UC-T/NJR-L13UC-R  
NJR-L15UC-T/NJR-L15UC-R

User Guide  
Ver.1.1.0



Thank you for choosing our product.

Please thoroughly familiarize yourself with this guide before installing this equipment. We recommend keeping this manual together with the equipment for future reference as needed.

- All rights reserved.
- Some information contained in this guide such as exact product appearance, communication commands, and so on may differ depending on the product version.
- This guide is subject to change without notice. You can download the latest version from IDK’s website at: [www.idkav.com](http://www.idkav.com)

**About technical documentation**

■ **Please read the following guides before connecting this equipment to a power source.**

<p><b>1. Safety Instructions</b> Contains important safety instructions for the product to help ensure your own personal safety and protect the product and working environment from potential damage.</p>	<p>Provided with the product.</p>
<p><b>2. Setup Guide</b> Contains setup information and precautions for installing the product and connecting cables.</p>	<p>Download from <a href="http://www.idkav.com">www.idkav.com</a></p>

■ **Please refer to the following guides as needed.**

<p><b>3. Operation Guide</b> Describes how to configure and use the equipment.</p>	<p>Download from <a href="http://www.idkav.com">www.idkav.com</a></p>
<p><b>4. User Guide</b> Contains detailed explanation of functions, setting values, and restrictions.</p>	
<p><b>5. Command Guide</b> Contains information on controlling the equipment using communication commands through RS-232C or LAN communication.</p>	

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**FCC STATEMENT**

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

(Class A)

**Supplier's Declaration of Conformity**  
**47 CFR § 2.1077 Compliance Information**

**Unique Identifier**

Type of Equipment: Digital Multi Switcher  
 Model Name: NJR-L13UC-T, NJR-L13UC-R, NJR-L15UC-T, NJR-L15UC-R

**Responsible Party – U.S. Contact Information**

Company Name: IDK America Inc.  
 Address: 72 Grays Bridge Road Suite 1-C, Brookfield, CT 06804  
 Telephone number: +1-203-204-2445  
 URL: www.idkav.com

**FCC 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 SDoC)

**CE MARKING**

This equipment complies with the essential requirements of the relevant European health, safety and environmental protection legislation.

**WEEE MARKING**



Waste Electrical and Electronic Equipment (WEEE), Directive 2002/96/EC  
 (This directive is only valid in the EU.)

This equipment complies with the WEEE Directive (2002/96/EC) marking requirement.  
 The left marking indicates that you must not discard this electrical/electronic equipment in domestic household waste.

# Safety Instructions

Read all safety and operating instructions before using this product. Follow instructions and heed warnings/cautions.

Instructions and warnings/cautions for all products are provided. Some of them may not be applicable to your product.

	<h2>Warning</h2>	Indicates the presence of a hazard that may result in death or serious personal injury if the warning is ignored or the product is handled incorrectly.
	<h2>Caution</h2>	Indicates the presence of a hazard that may cause minor personal injury or property damage if the caution is ignored or the product is handled incorrectly.

Symbol	Description	Example
 Caution	This symbol is intended to alert the user. (Warning and caution)	 Hot surfaces Caution
 Prohibited	This symbol is intended to prohibit the user from specified actions.	 Do not disassemble
 Instruction	This symbol is intended to instruct the user.	 Unplug

## Warning

### For lifting heavy products:

 Instruction	<ul style="list-style-type: none"> <li>● <b>Lifting must be done by two or more personnel.</b></li> </ul> <p>To avoid injury: When lifting the product, bend your knees, keep your back straight and get close to it with two or more persons.</p>
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### For installing and connecting products:

 Prohibited	<ul style="list-style-type: none"> <li>● <b>Do not place the product in unstable place.</b></li> </ul> <p>Install the product in a horizontal and stable place, as this may fall or tip over and cause injury.</p> <ul style="list-style-type: none"> <li>● <b>Secure the product if installing in the locations with vibration.</b></li> </ul> <p>Vibration may move or tip over the product unexpectedly, resulting in injury.</p>
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# **Warning**

 <b>Instruction</b>	<ul style="list-style-type: none"> <li>● <b>Installation work must be performed by professionals.</b> The product is intended to be installed by skilled technicians. For installation, please contact a system integrator or IDK. Improper installation may lead to the risk of fire, electric shock, injury, or property damage.</li> <li>● <b>Insert the power plug into an outlet that is unobstructed.</b> Unobstructed access to the plug enables unplugging the product in case of any extraordinary failure, abnormal situation or for easy disconnection during extended periods of non-use.</li> <li>● <b>Insert the power plug into an appropriate outlet completely.</b> If the plug is partially inserted, arcing may cause the connection to overheat, increasing the risk of electric shock or fire. Do not use a damaged plug or connect to a loose outlet.</li> <li>● <b>Unplug the product from an AC power source during installation or service.</b> When connecting peripheral devices to this product, unplug all involved devices from outlets. Ground potential differences may cause fire or other difficulties.</li> <li>● <b>The product must be electrically earthed/grounded.</b> To reduce the risk of electric shock, ensure the product is connected to a mains socket outlet with a protective earthing connection.</li> <li>● <b>For PoE/PoH, use category cables meeting IEEE802.3af/at.</b> Otherwise, it may cause problems or a fire.</li> </ul>
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**For operating products:**

 <b>Prohibited</b>	<ul style="list-style-type: none"> <li>● <b>Keep out any foreign objects.</b> To avoid fire or electric shock, do not permit foreign objects, such as metal and paper, to enter the product from vent holes or other apertures.</li> <li>● <b>For power cable/plug and Category cable,</b> <ul style="list-style-type: none"> <li>• Do not scratch, heat, or modify, including splicing or lengthening them.</li> <li>• Do not pull, place heavy objects on them, or pinch them.</li> <li>• Do not bend, twist, tie or clamp them together forcefully.</li> </ul> </li> </ul> <p>Misuse of the power cable and plug may cause fire or electric shock. If power cables/plugs become damaged, contact your IDK representative.</p>
 <b>Do not disassemble</b>	<ul style="list-style-type: none"> <li>● <b>Do not repair, modify or disassemble.</b> Since the product includes circuitry that uses potentially lethal, high voltage levels, disassembly by unauthorized personnel may lead to the risk of fire or electric shock. For internal inspection or repair, contact your IDK representative.</li> </ul>
 <b>Do not touch</b>	<ul style="list-style-type: none"> <li>● <b>Do not touch the product and connected cables during electric storms.</b> Contact may cause electric shock.</li> </ul>
 <b>Instruction</b>	<ul style="list-style-type: none"> <li>● <b>Clean the power plug regularly.</b> If the plug is covered in dust, it may increase the risk of fire.</li> </ul>

**If the following problem occurs:**

 <b>Unplug</b>	<ul style="list-style-type: none"> <li>● <b>Unplug immediately if the product smokes, makes unusual noise, or produces a burning odor.</b></li> <li>● <b>Unplug immediately if the product is damaged by falling or having been dropped.</b></li> <li>● <b>Unplug immediately if water or other objects are directed inside.</b></li> </ul> <p>If you continue to use the product under these conditions, it may increase the risk of electric shock or fire. For maintenance and repair, contact your IDK representative.</p>
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# Caution

**For installing and connecting products:**

 <p><b>Prohibited</b></p>	<ul style="list-style-type: none"> <li>● <b>Do not place the product in a location where it will be subjected to high temperatures.</b> If the product is subjected to direct sunlight or high temperatures while under operation, it may affect the product's performance and reliability and may increase the risk of fire.</li> <li>● <b>Do not store or operate the product in dusty, oil smoke filled, or humid place.</b> Placing the product in such environment may increase the risk of fire or electric shock.</li> <li>● <b>Do not block the vent holes.</b> If ventilation slots are blocked, it may cause the product to overheat, affecting performance and reliability and may increase the risk of fire.</li> <li>● <b>Do not place or stack heavy items on the product.</b> Failure to observe this precaution may result in damage to the product itself as well as other property and may lead to the risk of personal injury.</li> <li>● <b>Do not exceed ratings of outlet and wiring devices.</b> Exceeding the rating of an outlet may increase the risk of fire and electric shock.</li> </ul>
 <p><b>No wet hands</b></p>	<ul style="list-style-type: none"> <li>● <b>Do not handle power plug with wet hands.</b> Failure to observe this precaution may increase the risk of electric shock.</li> </ul>
 <p><b>Instruction</b></p>	<ul style="list-style-type: none"> <li>● <b>Use and store the product within the specified temperature/humidity range.</b> If the product is used outside the specified range of temperature and humidity continuously, it may increase the risk of fire or electric shock.</li> <li>● <b>Do not place the product at elevations of 1.24 mi. (2,000 m) or higher above sea level.</b> Failure to do so may shorten the life of the internal parts and result in malfunctions.</li> <li>● <b>When mounting the product into the rack, provide sufficient cooling space.</b> Mount the product in a rack meeting EIA standards, and maintain spaces above and below for air circulation. For your safety as required, attach an L-shaped bracket in addition to the panel mount bracket kit to improve mechanical stability.</li> <li>● <b>Never insert screws without the rubber feet into the threaded holes on the bottom of the product.</b> Never insert screws alone into the threaded holes on the bottom of the product. Doing so may lead to damage when the screws contact electric circuitry or components inside the product. Reinstall the originally supplied rubber feet using the originally supplied screws only.</li> </ul>

**For operating products:**

 <p><b>Hot surfaces Caution</b></p>	<p><b>For products with the hot surfaces caution label only:</b></p> <ul style="list-style-type: none"> <li>● <b>Do not touch the product's hot surface.</b></li> </ul> <p>If the product is installed without enough space, it may cause malfunction of other products. If you touch product's hot surface, it may cause burns.</p>
 <p><b>Prohibited</b></p>	<ul style="list-style-type: none"> <li>● <b>Use only the supplied power cable and AC adapter.</b></li> <li>● <b>Do not use the supplied power cable and AC adapter with other products.</b></li> </ul> <p>If non-compliant adapter or power cables are used, it may increase the risk of fire or electric shock.</p>
 <p><b>Unplug</b></p>	<ul style="list-style-type: none"> <li>● <b>If the product won't be used for an extended period of time, unplug it.</b></li> </ul> <p>Failure to observe this precaution may increase the risk of fire.</p> <ul style="list-style-type: none"> <li>● <b>Unplug the product before cleaning.</b></li> </ul> <p>To prevent electric shock.</p>
 <p><b>Instruction</b></p>	<ul style="list-style-type: none"> <li>● <b>Do not prevent heat release.</b></li> </ul> <p>If cooling fan stops, power off the product and contact IDK. Failure to do so may raise internal temperature and increase the risk of malfunction, fire, or electric shock.</p> <ul style="list-style-type: none"> <li>● <b>Keep vents clear of dust.</b></li> </ul> <p>If the vent holes near the cooling fan or near the fan are covered with dust, internal temperatures increase and may increase the risk of malfunction. Clean the vent holes and near the fan as needed. If dust accumulates inside of the product, it may increase the risk of fire or electric shock. Periodic internal cleaning, especially before humid rainy season, is recommended. For internal cleaning, contact your IDK representative.</p>

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## About this Guide

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This guide describes features, notes, and configurations of the NJR-L.

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### Conventions

- The following symbols are used in this guide.
  - [ ] : Menus and messages displayed on the front display and a WEB GUI.
  - “ ” : Reference
- The following notifications are used in this guide.
  - Note** : Addresses practices not related to personal injury, such as restrictions and attention.

## About this Product

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The NJR-L13UC-T(encoder)/NJR-L15UC-T(encoder)/NJR-L13UC-R(decoder)/NJR-L15UC-R(decoder) are AV over IP endpoints with EDID emulator for transmitting HDMI signals over a twisted pair cable. It supports 4K@60 signals and is HDCP 2.2 compliant.

The NJR-L13UC-T/NJR-L13UC-R includes three distribution outputs while the NJR-L15UC-T/NJR-L15UC-R have five distribution outputs. The distribution outputs of the encoders are HDMI output(s) and 10GbE outputs, and those on the decoders are HDMI output only.

The NJR-L also features LAN/RS-232C bidirectional communication.

This product can be used in combination with other IDK SDVoE supported products.

## Setting

The NJR-L can be set using the IP-NINJAR Configurator or NJR-CTB (IP-NINJAR Management Platform). Set “**Stopping sending device detection packet (P.12)**” to [OFF]. If it is set to [ON], the IP-NINJAR Configurator or NJR-CTB cannot detect the NJR-L.

The table below is used in this chapter.

Example:

Item	NO INPUT MONITORING	Command
For	HDMI IN	
Value	OFF, 2s to 15s (10s) (by 1s) Default value is shaded.	

## DIP switch

[OFF] : Set a DIP switch to the upper position.

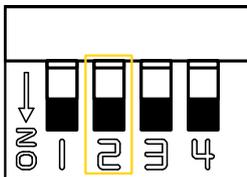
[ON] : Set a DIP switch to the down position.

### Note

Set DIP switches No.1 and No.4 to [OFF] at all times.

## Stopping sending device detection packet

You can stop sending all device detection packets of 10GbE input/output.



Item	Stopping sending device detection packet
For	IN*, OUT2*, OUT3*, OUT4*, OUT5*
Value	DIP switch No.2 OFF, ON

\*For 10GbE input/outputs only

[OFF] : Enables the setting of “**SDVoE device detection (P.29)**”.

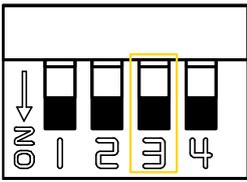
[ON] : Disables the setting of “**SDVoE device detection (P.29)**” and does not send device detection packet.

The NJR-L automatically sends device detection packet to LAN periodically for detection by the NJR-CTB or IP-NINJAR Configurator. If you do not want to send unnecessary packet to LAN, set DIP switch No.2 to [ON].

### Note

If DIP switch No.2 is set to [ON], the IP-NINJAR Configurator or NJR-CTB cannot detect the NJR-L.

## Disabling HDCP or EDID settings



Item	Disabling HDCP or EDID settings
For	IN*, OUT1*, OUT2*, OUT3*, OUT4*, OUT5*
Value	DIP switch No.3 OFF, ON

\*For HDMI input/outputs only

[OFF] : Enables the settings of “**HDCP authentication (P.15)**” or “**EDID selection (P.21)**”.

[ON] : Disables the settings of “**HDCP authentication (P.15)**” or “**EDID selection (P.21)**”. Settings below will be applied.

HDCP authentication : HDCP INPUT ONLY

EDID selection : EXTERNAL EDID

## Output

### Video signal output

Item	SIGNAL OUTPUT	@GVO/@SVO
For	OUT1, OUT2, OUT3, OUT4, OUT5	
Value	ON, OFF	

[OFF] : Stops outputting video signal and DDC 5 V signal electrically.

If [OFF] is selected, some sink devices may switched into standby mode.

### DDC 5V signal output for when no video signal is input

You can set the DDC 5 V signal output when an input channel without video signal is selected or [OFF] is selected.

Item	DDC POWER CONTROL	N/A
For	OUT1, OUT2*, OUT3*, OUT4*, OUT5*	
Value	ON, 0 s to 60 s	

\*For HDMI outputs only

[ON] : Outputs DDC 5 V signal at all times.

[0 s] to [60 s] : Disconnects DDC 5 V signal after the specified time passes.

When DDC 5 V signal is disconnected, a sink device may switch into standby mode.

## Signal format

Item	SIGNAL FORMAT	N/A
For	OUT1, OUT2, OUT3, OUT4, OUT5	
Value	AUTO, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0, RGB, DVI	

[AUTO] : Optimal color space for the connected device.

[YCbCr 4:4:4] : HDMI YCbCr 4:4:4 has priority.

[YCbCr 4:2:2] : HDMI YCbCr 4:2:2 has priority.

[YCbCr 4:2:0] : HDMI YCbCr 4:2:0 has priority.

Enabled only for input resolutions of 4K@50/59.94/60.

If the sink device does not support HDMI YCbCr 4:2:0 or the input resolution is 4K@30 or lower, video is output at the priority of [AUTO].

[RGB] : HDMI RGB has priority.

[DVI] : Outputs DVI signal.

Enabled only for input resolutions of 4K@30 or lower.

### Note

If DVI signal is output, digital audio is not output.

## HDCP authentication

Item	HDCP AUTHENTICATION	@GEN/@SEN
For	OUT1*, OUT2*, OUT3*, OUT4*, OUT5*	
Value	HDCP 2.2, HDCP INPUT ONLY, ALWAYS	

\*For decoder HDMI outputs only

[HDCP 2.2] : HDCP 2.2 authentication

[HDCP INPUT ONLY] : HDCP 2.2 or HDCP 1.4 authentication depending on the sink device

Outputs signal depending on HDCP presence of input signal.

If input signal is protected by HDCP, outputs signal with HDCP.

If input signal is not protected by HDCP, outputs signal without HDCP.

[ALWAYS] : HDCP 2.2 or HDCP 1.4 authentication depending on the sink device

For a sink device that is not supported by HDCP, video is displayed only if this setting is set to a value other than [HDCP 2.2] and input signal is not supported by HDCP.

If [HDCP INPUT ONLY] is set, HDCP presence of output signal changes depending on HDCP presence of input signal. Some sink devices may not be displayed temporarily.

To enable this setting, set “**Disabling HDCP or EDID settings (P.13)**” of DIP switch No.3 to [OFF].

## Hot plug ignoring duration

You can set the duration for ignoring video output request signals that are sent from the sink device.

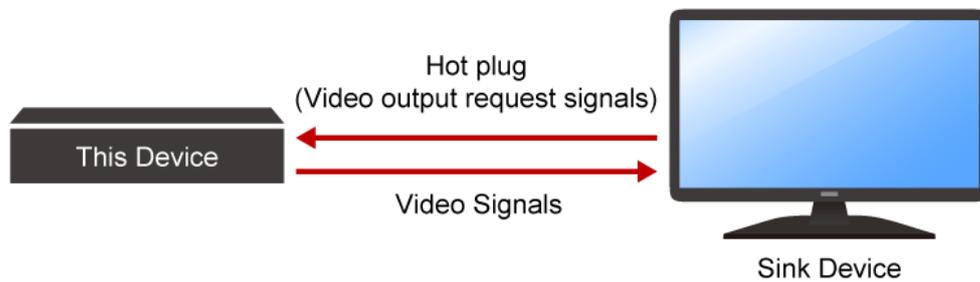
Item	HOTPLUG MASK	N/A
For	OUT1, OUT2*, OUT3*, OUT4*, OUT5*	
Value	OFF, 2s to 15s	

\*For HDMI outputs only

[OFF] : Always receives video output request signals from sink devices.

[2s] to [15s] : After receiving video output request signals, ignores these signals during the specified period.

If the signal request is repeated in a short cycle, the NJR-L resets the video output process. As a result, video may not be output. This problem can be solved by setting the ignoring duration.



## Input

### Hot plug output for when there is no active video input signal

The NJR-L requests the source device to output video signal by sending hot plug when no active video signal is input. You can enable/disable this feature and set the request interval.

Item	NO INPUT MONITORING	N/A
For	IN*	
Value	OFF, 2s to 15s (10s)	

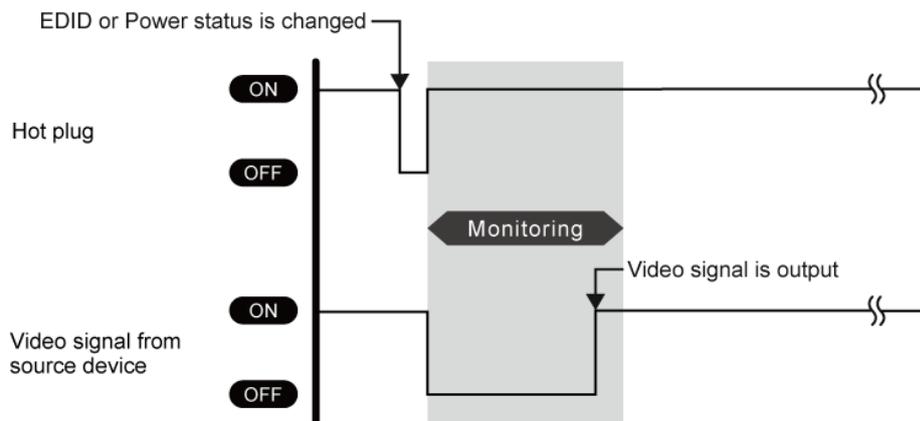
\*For HDMI input only

[OFF] : Does not request the source device to output video signal even if there is no active input signal.

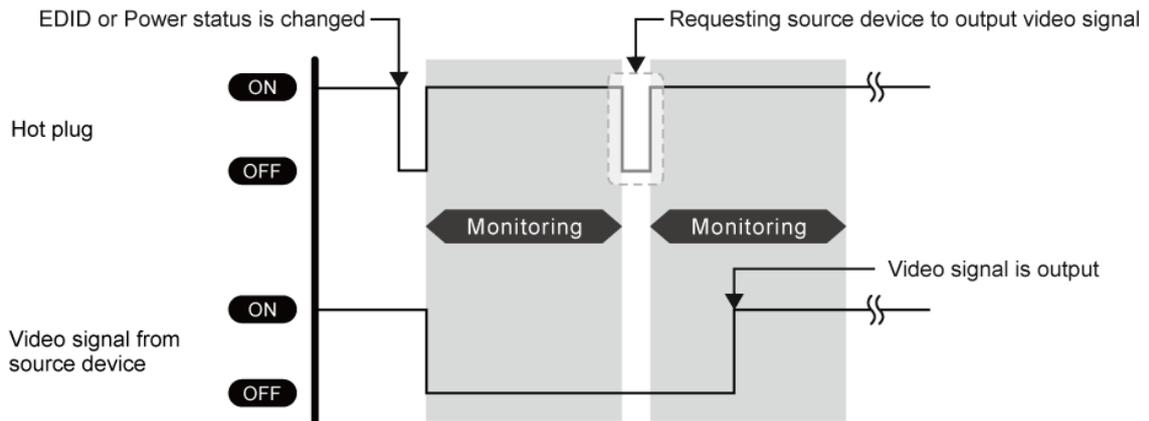
[2s] to [15s] : Requests the source device to output video signal after the specified monitoring time if there is no active input signal.

If the NJR-L is powered on or EDID is changed with the connected source device is powered on, the source device may stop outputting video signal. In this case, use this feature to request the source device to output video signal.

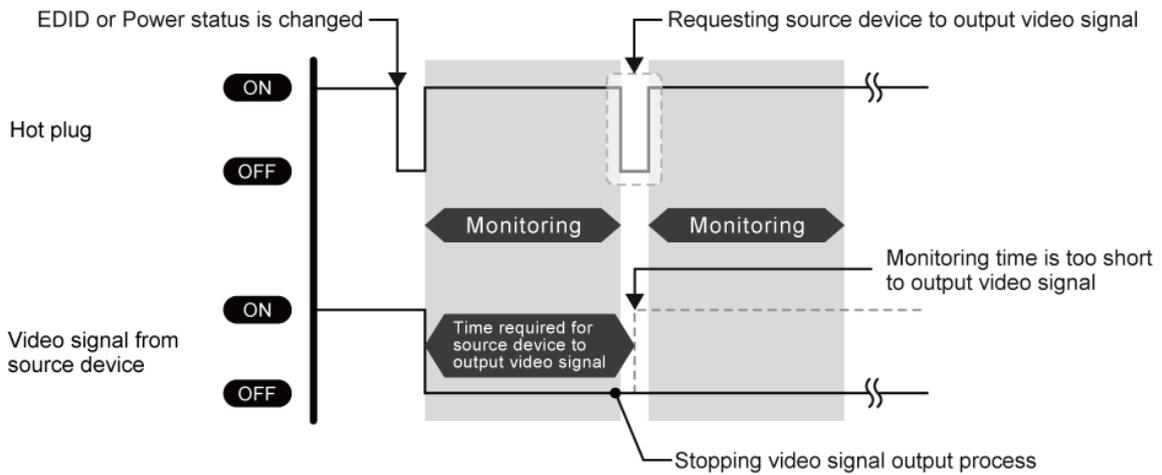
#### ■ Example: Video signal is output within the specified monitoring time



■ **Example: The source device stops outputting video signals → Hot plug request is needed.**



■ **Example: The specified monitoring time is too short. → Set the longer monitoring time.**



If the interval is shorter than the time for source device output video signal, the source device repeats the video output process and does not output video signal. This problem can be solved by setting longer monitoring time.

**Note**

If the source device, such as a PC, disables the monitor power-saving or dual monitor features, set this setting to [OFF].

## HDCP input

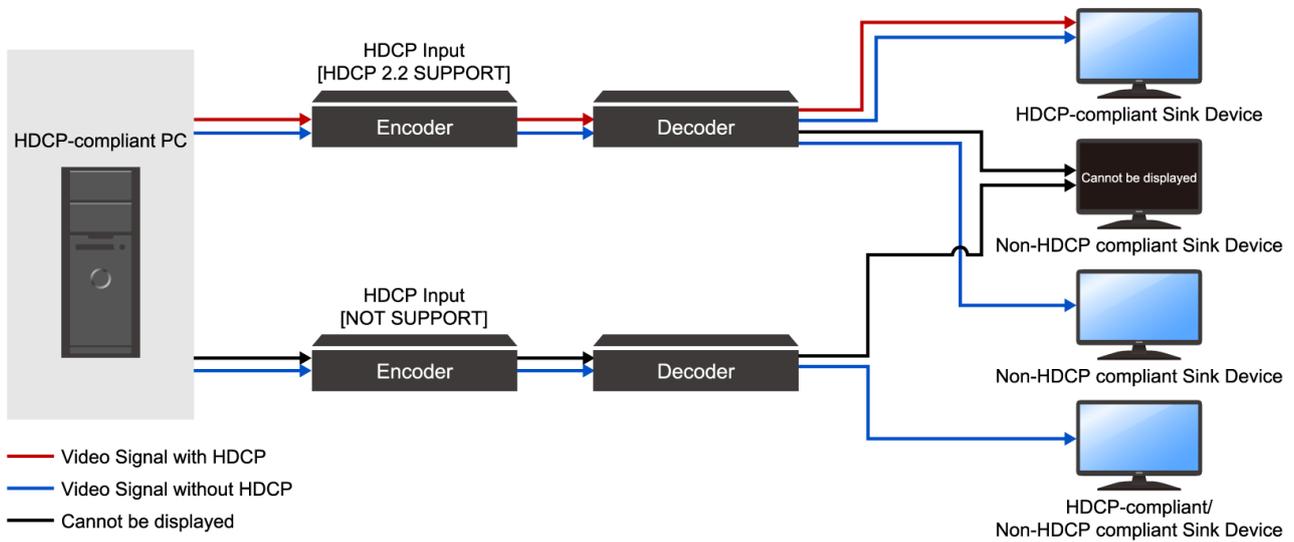
Item	HDCP INPUT	@GHE/@SHE
For	IN	
Value	HDCP 2.2 SUPPORT, HDCP 1.4 SUPPORT, NOT SUPPORT	

[HDCP 2.2 SUPPORT] : Operates as an HDCP 2.2 supported device.

[HDCP 1.4 SUPPORT] : Operates as an HDCP 1.4 supported device.

[NOT SUPPORT] : Operates as a non-HDCP compliant device

Some source devices negotiate with the connected device to determine if HDCP encryption is supported. After this negotiation, the source device determines whether HDCP signal encryption is enforced or not. This process takes place with some source device, even if the content being presented is not copyright protected. The NJR-L is HDCP compliant, if it is connected to a display device that does not support HDCP, unprotected AV content may not be successfully displayed. Under these circumstances and if the content is indeed not protected, the problem can be solved by setting this menu to [NOT SUPPORT].



### Note

HDCP 2.2 Type 0 video can be displayed on sink devices supporting HDCP 1.4.

HDCP 2.2 Type 1 video can be displayed on sink devices supporting HDCP 2.2 but cannot be displayed on sink devices supporting HDCP 1.4.

## Output audio

### Mute

You can mute/unmute the output audio.

Item	MUTE	@GAM/@SAM
For	OUT1, OUT2, OUT3, OUT4, OUT5, AUDIO OUT	
Value	ON, OFF	

[ON]: Mute

## Input audio

### Input audio selection

You can select the audio of 10GbE input connector from digital or analog input audio.

Analog input audio is available when using IP-NINJAR encoder or transceiver that has analog audio input.

Item	SDVoE AUDIO	N/A
For	IN*	
Value	DIGITAL, ANALOG	

\*For 10GbE input only

## EDID

A source device that is connected to the input connector obtains information of supported video and audio signals from the EDID. You can change the information to be sent to a source device.

To enable EDID settings from an encoder, set “**Disabling HDCP or EDID settings (P.13)**” of the DIP switch No.3 to [OFF].

### EDID selection

You can set the EDID that will be sent to source device.

Item	EDID SELECTION	@GED/@SED
For	IN	
Value	BUILT-IN EDID, EXTERNAL EDID OUT1, EXTERNAL EDID OUT2, EXTERNAL EDID OUT3, EXTERNAL EDID OUT4, EXTERNAL EDID OUT5 COPY DATA1 to COPY DATA3	

[BUILT-IN EDID] : Uses the built-in EDID. You can change the following EDID information:

- 【Resolution(P.22)】
- 【Signal format(P.23)】
- 【Frame rate(P.23)】
- 【Deep Color(P.23)】
- 【Audio format(P.24)】
- 【Speaker Configuration(P.25)】

[EXTERNAL EDID] : Uses the EDID of the sink device that is connected to an output connector.  
 If EDID reading fails, the EDID is not changed.

[COPY DATA] : Uses the EDID that is saved to the NJR-L in “**Copying EDID (P.22)**”.

#### Note

If HDR signal is used, set this menu to [EXTERNAL EDID] or copy EDID of the sink device supporting HDR signals and set this menu to [COPY DATA].

## Resolution

You can set the resolution of the NJR-L for if “**EDID selection (P.21)**” is set to [BUILT-IN EDID].

Item	RESOLUTION		@GVF/@SVF
For	IN		
Value	800x600 (SVGA)	1080p	
	1024x768 (XGA)	1920x1200 (WUXGA)	
	1280x720 (VESA720)	2048x1152 (QWXGA)	
	720p	2560x1080 (UWFHD)	
	1280x768 (WXGA)	2560x1440 (WQHD)	
	1280x800 (WXGA)	2560x1600 (WQXGA)	
	1280x960 (QuadVGA)	3240x1080	
	1280x1024 (SXGA)	3440x1440 (UWQHD)	
	1360x768 (WXGA)	3840x1080 (DFHD)	
	1366x768 (WXGA)	3840x1600 (UWQHD+)	
	1400x1050 (SXGA+)	3840x2160@30	
	1440x900 (WXGA+)	3840x2160@60 4:2:0	
	1600x900 (WXGA++)	3840x2160@60 4:4:4	
	1600x1200 (UXGA)	4096x2160@30	
	1680x1050 (WSXGA+)	4096x2160@60 4:2:0	
	1080i	4096x2160@60 4:4:4	
	1920x1080 (VESA1080)		

Timing of [720p]/[1080i]/[1080p]/[2560x1080]/3840x2160/[4096x2160] meets the CTA-861 standard.

For other resolutions, timing parameters meet the VESA DMT or VESA CVT standard.

## Copying EDID

The EDID of the sink device is read and saved to the NJR-L.

Item	EDID COPY	N/A
For	-	
Value	-	

## Signal format

You can set the signal format of the NJR-L for if “**EDID selection (P.21)**” is set to [BUILT-IN EDID].

Item	SIGNAL FORMAT	N/A
For	IN	
Value	HDMI, DVI	

[HDMI] : Sets the NJR-L as an HDMI device.

[DVI] : Sets the NJR-L as a DVI device. Audio signal is not supported.

If selecting [DVI], the following settings will be disabled:

【Deep Color (P.23)】

【Audio format (P.24)】

【Speaker Configuration (P.25)】

## Frame rate

You can set the vertical synchronous frequency (frame rate) of the NJR-L for if “**EDID selection (P.21)**” is set to [BUILT-IN EDID].

Item	FRAME RATE	N/A
For	IN	
Value	60Hz, 50Hz	

If selecting [50Hz], 60 Hz and 30 Hz vertical synchronous frequency of “**Resolution (P.22)**” will be 50 Hz and 25 Hz, respectively.

## Deep Color

You can set the color depth of the NJR-L for if “**EDID selection (P.21)**” is set to [BUILT-IN EDID].

Item	DEEP COLOR	N/A
For	IN	
Value	24-BIT COLOR, 30-BIT COLOR, 36-BIT COLOR	

If selecting a value other than [24-BIT COLOR] and the source device output video at 30 bit or higher, it may cause noise on the video or signal may not be transmitted. In such a case, the problem may be solved by setting the color to [24-BIT COLOR].

## Audio format

You can set the NJR-L's audio format and maximum sampling frequency for if "EDID selection (P.21)" is set to [BUILT-IN EDID].

Item	AUDIO FORMAT	N/A
For	IN	
Value	PCM : 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz Dolby Digital : OFF, 32kHz, 44.1kHz, 48kHz AAC : OFF, 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96 kHz Dolby Digital+ : OFF, 32kHz, 44.1kHz, 48kHz DTS : OFF, 32kHz, 44.1kHz, 48kHz, 96kHz DTS-HD : OFF, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz Dolby TrueHD : OFF, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz	

**Note:**

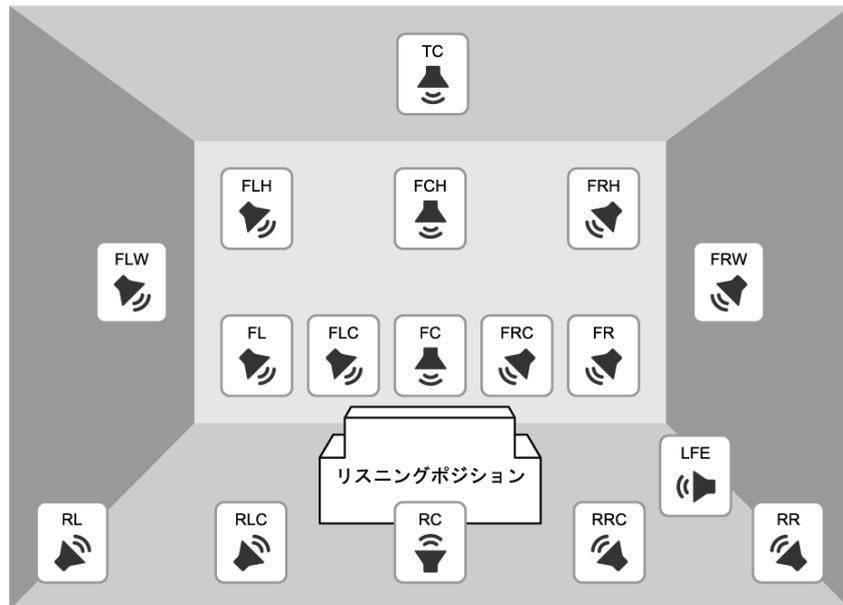
LC monitors do not support some audio formats. Select an audio format and sampling frequency supported by the device.

## Speaker Configuration

You can set the NJR-L's speaker configuration of multi-channel audio for if "EDID selection (P.21)" is set to [BUILT-IN EDID].

Item	SPEAKER CONFIGURATION		N/A
For	IN		
	Number of speakers	Number of speakers	
Value	1 to 8 (2)	See the table below ON, OFF* *FL/FR: ON	

Number of speakers	FL/FR	LFE	FC	RL/RR	RC	FLC/FRC	RLC/RRC	FLW/FRW	FLH/FRH	TC	FCH
1	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
5	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
6	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
7	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
8	ON	ON	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF

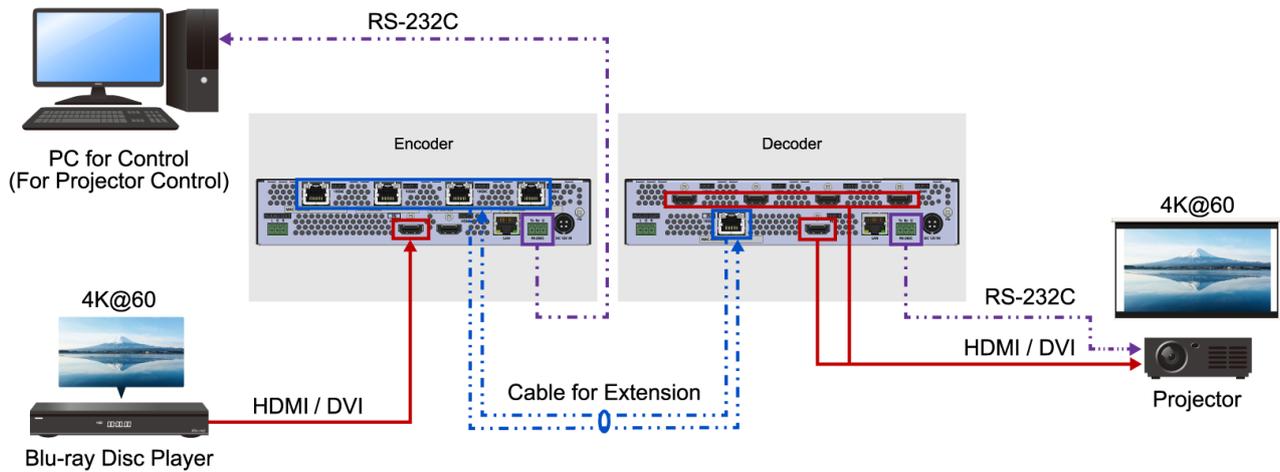


FL	Front Left
FC	Front Center
FR	Front Right
FLC	Front Left Center
FRC	Front Right Center
RL	Rear Left
RC	Rear Center
RR	Rear Right
RLC	Rear Left Center

RRC	Rear Right Center
LFE	Low Frequency Effect
FLW	Front Left Wide
FRW	Front Right Wide
FLH	Front Left High
FCH	Front Center High
FRH	Front Right High
TC	Top Center

## RS-232C

The received data from the RS-232C connector can be transmitted to the RS-232C via a cable for extension.



## Communication setting

Item	PARAMETERS				@GCT/@SCT
For	Baud rate [bps]	Data bit length [bit]	Parity check	Stop bit [bit]	
Value	4800, 9600, 14400, 19200, 38400, 57600, 115200	7, 8	NONE, ODD, EVEN	1, 2	

## Transmission mode

Item	TRANSMISSION MODE	@G#S/@S#S
Value	TRANSMISSION, RECEIVER	

[TRANSMISSION]: Transmits the data between NJR-L's RS-232C connectors via a cable for extension.

[RECEIVER]: Controlled the NJR-L from an external device.

If selecting [TRANSMISSION], the data that is received at the RS-232C connector is transmitted to the I/O channels set in "**Sending channel (P.27)**".

The data that is received at the I/O channel set in "**Receiving channel (P.27)**" can be sent from NJR-L's RS-232C connector.

## Sending channel

You can set the sending channel for if “**Transmission mode (P.26)**” is set to [TRANSMISSION].

Item	TRANSMISSION SENDING CHANNEL	@G##/@S##
For	IN, OUT2, OUT3, OUT4, OUT5	
Value	Encoder	Decoder
	OUT2: ON, OFF	IN: ON, OFF
	OUT3: ON, OFF	
	OUT4: ON, OFF	
	OUT5: ON, OFF	

[ON] : Sends the data that is received at NJR-L’s RS-232C connector to the set channel.

[OFF] : Does not send the data that is received at NJR-L’s RS-232C connector from the set channel.

## Receiving channel

You can set the receiving channel for if “**Transmission mode (P.26)**” is set to [TRANSMISSION].

Item	TRANSMISSION RECEIVING CHANNEL	@G#R/@S#R
For	IN, OUT2, OUT3, OUT4, OUT5	
Value	Encoder	Decoder
	OUT2: ON, OFF	IN: ON, OFF
	OUT3: ON, OFF	
	OUT4: ON, OFF	
	OUT5: ON, OFF	

[ON] : Sends the data that is received at the set channel from the NJR-L RS-232C connector.

[OFF] : Does not sends the data that is received at the set channel from the NJR-L RS-232C connector.

## LAN

### Network

Item	IP ASSIGNMENT	@GIP/@SIP
Value	STATIC, DHCP/AutoIP, AutoIP	

Item	IP ADDRESS	@GIP/@SIP
Value	0.0.0.0 to 255.255.255.255 (192.168.1.199)	

Item	SUBNET MASK	@GIP/@SIP
Value	0.0.0.0 to 255.255.255.254 (255.255.255.0)	

Item	GATEWAY ADDRESS	@GIP/@SIP
Value	0.0.0.0 to 255.255.255.255 (0.0.0.0)	

The NJR-L can automatically acquire IP addresses using AUTO IP or DHCP (Dynamic Host Configuration Protocol).

If [IP ASSIGNMENT] is set to [DHCP/AutoIP] or [AutoIP], the IP address, subnet mask, and gateway address are set automatically.

Immediately after [IP ASSIGNMENT] is changed, the LAN communication temporarily disconnects because the IP address changes. Try again later.

### MAC address

Item	MAC ADDRESS	@GMC
Value	Specific values of the device	

## Automatic disconnection time (Timeout)

You can set the time to disconnect LAN communication automatically.

Item	AUTO DISCONNECT	@GLD/@SLD
Value	NOT DISCONNECT, 1 s ~ 180 s (30 s)	

[NOT DISCONNECT] : Does not disconnect LAN communication.

[1 s] to [180 s] : Disconnect LAN communication when the set time passes.

Up to eight connections from an external device to the NJR-L can be set. The NJR-L disconnects the LAN communication if the NJR-L does not receive a command for the specified time.

If selecting [NOT DISCONNECT], the NJR-L does not disconnect the communication from its side. Communication may not be disabled if exceeding the connection limit.

## Communication of extension connector

You can enable/disable the LAN communication of extension connector.

Item	LAN THROUGH	N/A
For	IN*, OUT2*, OUT3*, OUT4*, OUT5*	
Value	ON, OFF	

\*For 10GbE input/outputs only

### ■ LAN loop problem

The NJR-L includes switching hub function. If two or more LAN communication connectors of the NJR-L are connected to the same network, the network may be down due to a loop problem. In this case, set the LAN communication to [OFF].

## SDVoE device detection

You can enable/disable a function for sending device detection packets of 10GbE output.

Item	SDVoE DETECTION	N/A
For	IN*, OUT2*, OUT3*, OUT4*, OUT5*	
Value	ON, OFF	

\*For 10GbE input/outputs only

[ON] : Sends device detection packets.

[OFF] : Stop sending device detection packets.

To enable this detection, set “**Stopping sending device detection packet (P.12)**” (DIP switch No.2) to [OFF].

## System

### Fan speed

Item	FAN CONTROL	N/A
Value	AUTO, LOW, MIDDLE, HIGH	

[AUTO] : Changes the fan speed depending on the internal temperature changes.

[LOW], [MIDDLE], [HIGH] : Keeps the fan speed according to the setting. If the internal temperature exceeds the limit, [AUTO] is applied.

### Backup/Restore

You can backup/restore the settings of the NJR-L.

Item	BACKUP/RESTORE	N/A
------	----------------	-----

### Reboot

Item	REBOOT	@RBT
------	--------	------

### Initialization of all settings

You can initialize all settings or settings except for RS-232C and LAN communication settings.

Item	INITIALIZATION	@CLR
Value	ALL, NORMAL	

[ALL] : Initializes all settings.

[NORMAL]: Initializes settings except for RS-232C and LAN communication settings.

    【RS-232C (P.26)】

    【LAN (P.28)】

**Note**

To restore settings, make a backup copy.

## Status

I/O signal status and the NJR-L status can be viewed from the IP-NINJAR Configurator or NJR-CTB (IP-NINJAR Management Platform).

## Factory default list

	Menu	Default		
DIP switch	No.1 to 4	OFF		
Output	SIGNAL OUTPUT	ON		
	DDC POWER CONTROL	ON		
	SIGNAL FORMAT	AUTO		
	HDCP AUTHENTICATION	ALWAYS		
	HOTPLUG MASK	OFF		
Input	NO INPUT MONITORING	10s		
	HDCP INPUT	HDCP 2.2 SUPPORT		
Output audio	MUTE	OFF		
Input audio	SDVoE AUDIO	DIGITAL		
EDID	EDID SELECTION	BUILT-IN EDID		
	RESOLUTION	3840x2160@60Hz 4:4:4		
	EDID COPY	---		
	SIGNAL FORMAT	HDMI		
	FRAME RATE	60Hz		
	DEEP COLOR	24-BIT COLOR		
	AUDIO FORMAT	PCM: 48kHz、 Dolby Digital、AAC、Dolby Digital+、DTS、DTS- HD、Dolby TrueHD: OFF		
	SPEAKER CONFIGURATION	2		
RS-232C	PARAMETERS	BPS: 9600、LENGTH: 8、PARITY: NONE、STOP: 1		
	TRANSMISSION MODE	TRANSMISSION		
	TRANSMISSION SENDING CHANNEL	Encoder	Decoder	
		OUT2 : ON OUT3 : OFF OUT4 : OFF OUT5 : OFF	IN : ON	
TRANSMISSION RECEIVING CHANNEL	Encoder	Decoder		
	OUT2 : ON OUT3 : OFF OUT4 : OFF OUT5 : OFF	IN : ON		
LAN	Network	IP ASSIGNMENT : DHCP/AutoIP IP ADDRESS : 192.168.1.199 SUBNET MASK : 255.255.255.0 GATEWAY ADDRESS : 0.0.0.0		
	MAC ADDRESS	---		
	AUTO DISCONNECT	30s		
	LAN THROUGH	OFF		
	SDVoE DETECTION	ON		
	System	FAN	AUTO	
		BACKUP/RESTORE	---	
REBOOT		---		
INITIALIZATION		---		

## License

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The following table shows the licensed third-party software packages used by the NJR-L. Transferring, copying, disassembling, decompiling, or reverse-engineering the included software other than open source software that is licensed by GPL, LGPL, or other licenses are prohibited.

OSS	License	URL
FreeRTOS	MIT	<a href="https://github.com/aws/amazon-freertos/blob/main/LICENSE">https://github.com/aws/amazon-freertos/blob/main/LICENSE</a>
lwIP	Modified BSD	<a href="https://savannah.nongnu.org/projects/lwip/">https://savannah.nongnu.org/projects/lwip/</a>

# Specification

## Product specification

		NJR-L13UC-T	NJR-L15UC-T	NJR-L13UC-R	NJR-L15UC-R	
Video/Audio input	HDMI	1 output		—		
		HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2 TMDS clock: Up to 300 MHz, TMDS data rate: Up to 18 Gbps Deep Color/HDR <sup>1</sup> 640x480@60 to 3840x2160@60 Reduced Blanking 480i, 576i to 3840x2160@24/25/30/50/59.94/60 (4:4:4), 3840x2160@50/59.94/60 (4:2:0), 4096x2160@24/25/30/50/59.94/60 (4:4:4), 4096x2160@50/59.94/60 (4:2:0) Color depth: 24/30/36 bits *For all supported video signals, see the table below. LPCM: Up to 8 channels Sampling frequency: 32/44.1/48/88.2/96/176.4/192 kHz Reference level: -20 dBFS, Max. input level: 0 dBFS Connector: HDMI Type A Maximum distances <sup>2</sup> : 98 ft. (30 m) (1080p@60), 39 ft. (12 m) (4K@60)				
	10GbE	—		1 output		
		SDVoE, AES-128 Deep Color/HDR <sup>1</sup> *Supported video signals are the same as those of HDMI. RS-232C/LAN Connector: RJ-45 Maximum distances <sup>2</sup> : 328 ft. (100 m) Cable: CAT6A (STP)				
Video/Audio output	HDMI	1 output		3 outputs	5 outputs	
		HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2 TMDS clock: Up to 300 MHz, TMDS data rate: Up to 18 Gbps Deep Color/HDR <sup>1</sup> 640x480@60 to 3840x2160@60 Reduced Blanking 480i, 576i to 3840x2160@24/25/30/50/59.94/60 (4:4:4), 3840x2160@50/59.94/60 (4:2:0), 4096x2160@24/25/30/50/59.94/60 (4:4:4), 4096x2160@50/59.94/60 (4:2:0) Color depth: 24/30/36 bits *For all supported video signals, see the table below. LPCM: Up to 8 channels Sampling frequency: 32/44.1/48/88.2/96/176.4/192 kHz Reference level: -20 dBFS, Max. output level: 0 dBFS Connector: HDMI Type A Maximum distances <sup>2</sup> : 98 ft. (30 m) (1080p@60), 39 ft. (12 m) (4K@60)				
	10GbE	2 outputs	4 output	—		
		SDVoE, AES-128 Deep Color/HDR <sup>1</sup> *Supported video signals are the same as those of HDMI. RS-232C/LAN Connector: RJ-45 Maximum distances <sup>2</sup> : 328 ft. (100 m) Cable: CAT6A (STP)				
	AUDIO OUT	1 output Stereo L/R Output impedance: 50 Ω unbalanced Reference level: -10 dBu, Max. output level: +10 dBu Connector: Captive screw (3-pin)				
Other I/F	RS-232C	1 port/Connector: Captive screw (3-pin)				
	LAN	1 port 10Base-T/100Base-TX (Auto Negotiation), Auto MDI/MDI-X, Connector: RJ-45				
Functions	Audio	Embedding				
	Others	EDID emulation, Anti-snow, Connection Reset <sup>3</sup>				
General	Power	DC 12 V 2.3 A	DC 12 V 3.6 A	DC 12 V 1.8 A	DC 12 V 2.2 A	
		AC adapter: AC 100 V - 240 V ±10%, 50 Hz/60 Hz ±3 Hz, DC 12 V 3 A 36.0 W	AC adapter: AC 100 V - 240 V ±10%, 50 Hz/60 Hz ±3 Hz, DC 12 V 5 A 60.0 W	AC adapter: AC 100 V - 240 V ±10%, 50 Hz/60 Hz ±3 Hz, DC 12 V 3 A 36.0 W		
	Power consumption	27.6 W	43.2 W	20.8 W	25.6 W	
	Dimensions	8.3 (W) × 1.7 (H) × 11.8 (D)" (210 (W) × 42 (H) × 300 (D) mm) (Excluding connectors and the like)				
	Weight	5.1 lbs. (2.3 kg)	5.3 lbs. (2.4 kg)	4.9 lbs. (2.2 kg)		
	Temperature	Operating: 32°F to 104°F (0°C to +40°C), Storage: -4°F to +176°F (-20°C to +80°C)				
	Humidity	20% to 90% (Non Condensing)				

<sup>1</sup> 3D/ARC/HEC/CEC are not supported.

<sup>2</sup> The maximum specified distances may not be achievable with some device combinations, cabling method, or other manufacturer's cable. For the same reasons, video signal disturbances or interruptions may occur, even if signals are within the specified distance (cable length) parameters. The maximum cable length varies depending on the connected devices. The specifications have been qualified under following conditions:

- HDMI (1080p@60): When IDK's 24 AWG cable was used and signal of 1080p@60 24 bits was transmitted.
- HDMI (4K@60): When IDK's 18 Gbps supported cable was used and signal of 3840x2160@60 24 bits was transmitted.
- 10GbE: When CAT6A (STP) cable is used.

<sup>3</sup> For digital systems, some problems, such as an HDCP authentication error, can often be recovered by physically disconnecting and reconnecting the digital cables. However, the Connection Reset feature will correct these problems automatically without the need to physically plug and unplug the cables. It creates the same condition as if the cable were physically disconnected and reconnected. This feature only works for the NJR-L's output. Connecting other devices between the NJR-L's outputs and sink devices, may interfere with the operation of this feature.

## Supported video signals

Signal	Resolution	Frame Rate [Hz]	Pixel Clock [MHz]	Color Depth [bits]	INPUT		OUTPUT	
					HDMI 10GbE	HDMI 10GbE	HDMI 10GbE	HDMI 10GbE
640x480@60	640x480	59.94	25.18	24/30/36		○		○
800x600@60	800x600	60.32	40.00	24/30/36		○		○
1024x768@60	1024x768	60.00	65.00	24/30/36		○		○
1280x768@60	1280x768	59.87	79.50	24/30/36		○		○
1280x800@60	1280x800	59.81	83.50	24/30/36		○		○
1280x960@60	1280x960	60.00	108.00	24/30/36		○		○
1280x1024@60	1280x1024	60.02	108.00	24/30/36		○		○
1360x768@60	1360x768	60.02	85.50	24/30/36		○		○
1366x768@60	1366x768	59.79	85.50	24/30/36		○		○
1400x1050@60	1400x1050	59.98	121.75	24/30/36		○		○
1440x900@60	1440x900	59.89	106.50	24/30/36		○		○
1600x900@60	1600x900	59.95	118.25	24/30/36		○		○
1600x1200@60	1600x1200	60.00	162.00	24/30/36		○		○
1680x1050@60	1680x1050	59.95	146.25	24/30/36		○		○
1920x1080@60 RB	1920x1080	59.93	138.50	24/30/36		○		○
1920x1200@60 RB	1920x1200	59.95	154.00	24/30/36		○		○
2048x1152@60 RB	2048x1152	60.00	162.00	24/30/36		○		○
2560x1080@60	2560x1080	60.00	198.00	24/30/36		○		○
2560x1440@60 RB	2560x1440	59.95	241.50	24/30/36		○		○
2560x1600@60 RB	2560x1600	59.97	268.50	24/30/36		○		○
3240x1080@60 RB	3240x1080	59.96	226.50	24/30/36		○		○
3440x1440@60 RB	3440x1440	59.97	319.75	24/30/36		○		○
3840x1080@60 RB	3840x1080	59.97	266.50	24/30/36		○		○
3840x1600@60 RB	3840x1600	59.99	395.00	24/30/36		○		○
480i	720x480	59.94	27.00	24/30/36		○		○
480p	720x480	59.94	27.00	24/30/36		○		○
576i	720x576	50.00	27.00	24/30/36		○		○
576p	720x576	50.00	27.00	24/30/36		○		○
720p@50	1280x720	50.00	74.25	24/30/36		○		○
720p@59.94	1280x720	59.94	74.18	24/30/36		○		○
720p@60	1280x720	60.00	74.25	24/30/36		○		○
1080i@50	1920x1080	25.00	74.25	24/30/36		○		○
1080i@59.94	1920x1080	29.97	74.18	24/30/36		○		○
1080i@60	1920x1080	30.00	74.25	24/30/36		○		○
1080p@50	1920x1080	50.00	148.50	24/30/36		○		○
1080p@59.94	1920x1080	59.94	148.35	24/30/36		○		○
1080p@60	1920x1080	60.00	148.50	24/30/36		○		○
3840x2160@23.98	3840x2160	23.98	296.70	24/30/36		○		○
3840x2160@24	3840x2160	24.00	297.00	24/30/36		○		○
3840x2160@25	3840x2160	25.00	297.00	24/30/36		○		○
3840x2160@29.97	3840x2160	29.97	296.70	24/30/36		○		○
3840x2160@30	3840x2160	30.00	297.00	24/30/36		○		○
3840x2160@50	3840x2160	50.00	594.00	24/30/36*		○		○
3840x2160@59.94	3840x2160	59.94	593.41	24/30/36*		○		○
3840x2160@60	3840x2160	60.00	594.00	24/30/36*		○		○
4096x2160@23.98	4096x2160	23.98	296.70	24/30/36		○		○
4096x2160@24	4096x2160	24.00	297.00	24/30/36		○		○
4096x2160@25	4096x2160	25.00	297.00	24/30/36		○		○
4096x2160@29.97	4096x2160	29.97	296.70	24/30/36		○		○
4096x2160@30	4096x2160	30.00	297.00	24/30/36		○		○
4096x2160@50	4096x2160	50.00	594.00	24/30/36*		○		○
4096x2160@59.94	4096x2160	59.94	593.41	24/30/36*		○		○
4096x2160@60	4096x2160	60.00	594.00	24/30/36*		○		○

RB: Reduced Blanking

\*For RGB/YCbCr 4:4:4, only 24 bit is supported.

For best results, please confirm that the source device(s) video output can be configured to match the listed formats above. For questions regarding other input video signals, please contact your IDK representative.

## Troubleshooting

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This chapter provides recommendations in case difficulties are encountered during NJR-L setup and operation.

In case the NJR-L does not work correctly, please check the following items first.

- Are the NJR-L and all devices connected to an active power source and are they powered on?
- Are signal cables connected correctly?
- Are there any loose or partially mated connections?
- Are the interconnecting cables specified correctly to support adequate bandwidth?
- Are specifications of connected devices matched to each other?
- Are configuration settings for the connected devices correct?
- Is there any nearby equipment that may cause electrical noise/RF interference?

Use the NJR-L built-in status display features to check for input signal presence and format. Also use the status display features to check for the presence of connected sink devices as well as for EDID and HDCP compatibility.

If difficulties persist, please refer to the peripheral device manuals as well, since connected equipment may be the cause of the trouble.

If the trouble persists, please contact us after checking the following items.

- Does the problem occur with all the signal connectors?
- Does the problem occur when you connect the source and display devices directly, bypassing the NJR-L?

**HDMI Encoder/Decoder**

## **NJR-L Distribution Amplifier**

**User Guide**



[www.idkav.com](http://www.idkav.com)

### Headquarters

IDK Corporation

7-9-1 Chuo, Yamato, Kanagawa, 242-0021, JAPAN

TEL: +81-46-200-0764 FAX: +81-46-200-0765

Email: [idk\\_eng@idk.co.jp](mailto:idk_eng@idk.co.jp)

### USA

IDK America Inc.

72 Grays Bridge Road Suite 1-C, Brookfield,  
CT 06804, United States

TEL: +1-203-204-2445

Email: [sales@idkav.com](mailto:sales@idkav.com)

### Europe

IDK Europe GmbH

Lise-Meitner-Str. 6, D-40878 Ratingen, Germany

TEL: +49-2102-578-301-0

Email: [info@idkav.eu](mailto:info@idkav.eu)

### Vietnam

IDK Corporation Vietnam

Hanoi Representative Office

TEL: +84-247-108-8866

Email: [info\\_en@idk.co.jp](mailto:info_en@idk.co.jp)

IDK Corporation Vietnam

Ho Chi Minh Representative Office

TEL: +84-28-7108-8954

Email: [info\\_en@idk.co.jp](mailto:info_en@idk.co.jp)