HDMI Encoder/Decoder NJR-L01UC-T/NJR-L01UC-R

The NJR-L01UC-T(Encoder)/NJR-L01UC-R(Decoder) is an AV over IP encoder/decoder set for transmitting HDMI signals up to 328 ft. (100 m) over twisted pair cable (CAT6A).

The NJR supports video resolutions up to 4K@60 (4:4:4), and is HDCP 2.2 compliant.

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

Specification

Specification		NJR-L01UC-T	NJR-L01UC-R
ideo/Audio	HDMI	1 input	_
put		HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2	
		TMDS clock: Up to 300 MHz, TMDS data rate: Up to 1	8 Gbps
		Deep Color/HDR ^{*1}	
		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	
		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 kH	<u>Z</u>
		Reference level: -20 dBFS, Max. input level: 0 dBFS	
		Connector: HDMI Type A (19-pin)	
		Maximum distances ^{*2} : 98 ft. (30 m) (1080p@60), 39 ft.	(12 m) (4K@60)
	10GbE	-	1 output
		SDVoE, AES-128	
		Deep Color/HDR ^{*1}	
		*Supported video signals are the same as those of HD	MI.
		RS-232C/LAN	
		Connector: RJ-45	
		Maximum distances ^{*2} : 328 ft. (100 m)	
		Cable: CAT6A (STP)	
deo/Audio		-	1 output
utput		HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2	
		TMDS clock: Up to 300 MHz, TMDS data rate: Up to 1	8 Gbps
		Deep Color/HDR ^{*1}	
		640x480@60 to 3840x2160@60 Reduced Blanking	
		480i, 576i to 3840x2160@24/25/30/50/59.94/60 (4:4:4	
		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 kH:	2
		Reference level: -20 dBFS, Max. output level: 0 dBFS	
		Connector: HDMI Type A (19-pin)	(12 m) (4)(@60)
		Maximum distances ^{*2} : 98 ft. (30 m) (1080p@60), 39 ft.	(1∠11) (4K@6U)
	10GbE	1 output	-
		SDVoE, AES-128	
		Deep Color/HDR*1	
		*Supported video signals are the same as those of HD	WI.
		RS-232C/LAN	
		Connector: RJ-45	
		Maximum distances ^{*2} : 328 ft. (100 m)	
	D0 0000	Cable: CAT6A (STP)	
ontrol I/F	RS-232C	1 port/Connector: Captive screw (3-pin)	
	LAN	1 port/10Base-T/100Base-TX/1000Base-T (Auto Nego	tiation), Auto MDI/MDI-X, Connector: RJ-45
inctions	-	EDID emulation, Connection Reset ^{*3}	
eneral	Power	DC 5 V 1.6 A	
	Power consumption	9 W	
	Dimensions	4.2 (W) × 1.1 (H) × 4.7 (D)" (106 (W) × 28 (H) × 120 (D) mm) (Excluding connectors and the like)
	Weight	1.1 lbs. (0.5 kg)	
	Temperature	Operating: 32°F to 104°F (0°C to +40°C), Storage: -4°I	F to +176°F (-20°C to +80°C)
	Humidity	20% to 90% (Non Condensing)	

*2

x.v.Color/3D/ARC/HEC/CEC are not supported. 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.

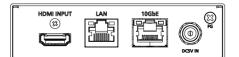
• HDMI (4K@60) : When IDK's 18 Gbps supported cable was used and signal of 3840x2160@60 24 bits was transmitted.

• 10GbE : When CAT6A (STP) cable is used.

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.

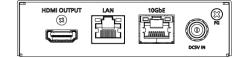
NJR-L01UC-T





NJR-I	L01U	IC-R
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AV over IP NJR-L01UC-R	IP-NIN AR
POWER SIGNAL	R5-232C
DECODER	Tx Rx G DIP-SW



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HDMI Encoder/Decoder NJR-L01UC-T/NJR-L01UC-R supported video signals

					INPUT	OUTPUT
Signal	Resolution	Frame Rate	Pixel Clock	Color Depth	HDMI	HDMI
Cigitai	recondicin	[Hz]	[MHz]	[bits]	10GbE	10GbE
640x480@60	640x480	59.94	25.18	24/30/36	0	0
800x600@60	800x600	60.32	40.00	24/30/36	0	0
1024x768@60	1024x768	60.00	65.00	24/30/36	0	0
1280x768@60	1280x768	59.87	79.50	24/30/36	0	0
1280x800@60	1280x800	59.81	83.50	24/30/36	0	0
1280x960@60	1280x960	60.00	108.00	24/30/36	0	0
1280x1024@60	1280x1024	60.02	108.00	24/30/36	0	0
1360x768@60	1360x768	60.02	85.50	24/30/36	0	0
1366x768@60	1366x768	59.79	85.50	24/30/36	0	0
1400x1050@60	1400x1050	59.98	121.75	24/30/36	0	0
1440x900@60	1400x1030	59.89	106.50	24/30/36	0	0
					0	0
1600x900@60	1600x900	59.95	118.25	24/30/36		
1600x1200@60	1600x1200	60.00	162.00	24/30/36	0	0
1680x1050@60	1680x1050	59.95	146.25	24/30/36		
1920x1080@60 RB	1920x1080	59.93	138.50	24/30/36	0	0
1920x1200@60 RB	1920x1200	59.95	154.00	24/30/36	0	0
2048x1152@60 RB	2048x1152	60.00	162.00	24/30/36	0	0
2560x1440@60 RB	2560x1440	59.95	241.50	24/30/36	0	0
2560x1600@60 RB	2560x1600	59.97	268.50	24/30/36	0	0
3840x2160@60 RB	3840x2160	60.00	522.61	24/30/36*	0	0
480i	720x480	59.94	27.00	24/30/36	0	0
480p	720x480	59.94	27.00	24/30/36	0	0
576i	720x576	50.00	27.00	24/30/36	0	0
576p	720x576	50.00	27.00	24/30/36	0	0
720p@50	1280x720	50.00	74.25	24/30/36	0	0
720p@59.94	1280x720	59.94	74.18	24/30/36	0	0
720p@60	1280x720	60.00	74.25	24/30/36	0	0
1080i@50	1920x1080	25.00	74.25	24/30/36	0	0
1080i@59.94	1920x1080	29.97	74.18	24/30/36	0	0
1080i@60	1920x1080	30.00	74.25	24/30/36	0	0
1080p@50	1920x1080	50.00	148.50	24/30/36	0	0
1080p@59.94	1920x1080	59.94	148.35	24/30/36	0	0
1080p@60	1920x1080	60.00	148.50	24/30/36	0	0
3840x2160@23.98	3840x2160	23.98	296.70	24/30/36	0	0
3840x2160@24	3840x2160	24.00	297.00	24/30/36	0	0
3840x2160@25	3840x2160	25.00	297.00	24/30/36	0	0
3840x2160@29.97	3840x2160	29.97	296.70	24/30/36	0	0
3840x2160@30	3840x2160	30.00	297.00	24/30/36	0	0
3840x2160@50	3840x2160	50.00	594.00	24/30/36*	0	0
3840x2160@59.94	3840x2160	59.94	593.41	24/30/36*	0	0
3840x2160@60	3840x2160	60.00	594.00	24/30/36*	0	0
4096x2160@23.98	4096x2160	23.98	296.70	24/30/36	0	0
4096x2160@24	4096x2160	24.00	297.00	24/30/36	0	0
4096x2160@25	4096x2160	25.00	297.00	24/30/36	0	0
4096x2160@29.97	4096x2160	29.97	296.70	24/30/36	0	0
4096x2160@30	4096x2160	30.00	297.00	24/30/36	0	0
4096x2160@50	4096x2160	50.00	594.00	24/30/36*	0	0
4096x2160@59.94	4096x2160	59.94	593.41	24/30/36*	0	0
4096x2160@60	4096x2160	60.00	594.00	24/30/36*	0	0

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.