

HDMI Encoder/Decoder

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

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.

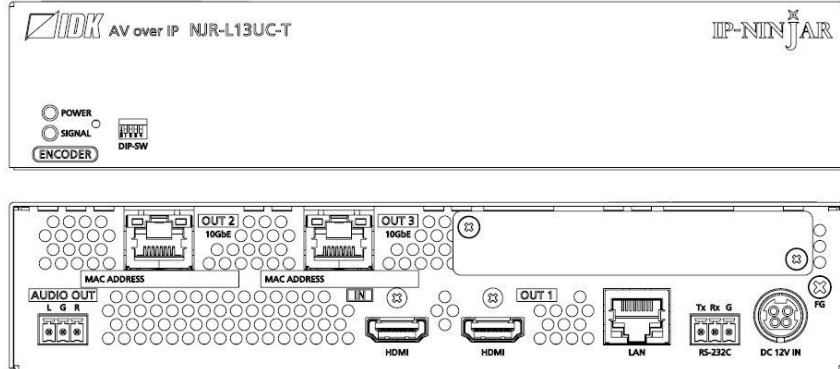
This product can be used in combination with other IDK SDVoE supported products.

■ Specification

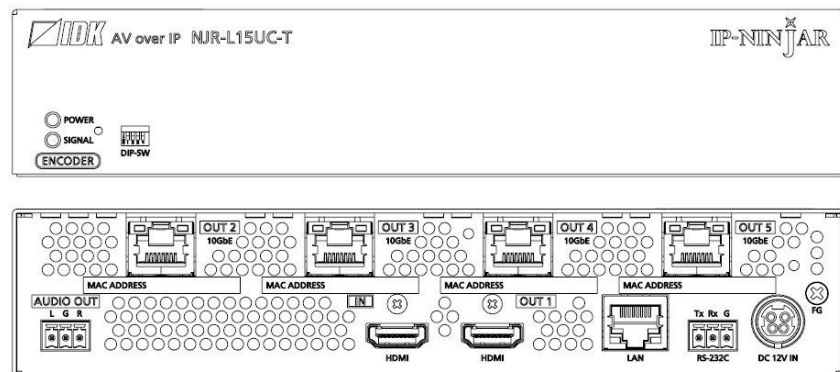
		NJR-L13UC-T	NJR-L15UC-T	NJR-L13UC-R	NJR-L15UC-R	
Video/Audio input	HDMI	1 output		—		
	10GbE	—		1 output		
Video/Audio output	HDMI	1 output		3 outputs	5 outputs	
	10GbE	2 outputs		4 output	—	
Other I/F	RS-232C	1 port/Connector: Captive screw (3-pin)				
	LAN	1 port 10Base-T/100Base-TX (Auto Negotiation), Auto MDI/MDI-X, Connector: RJ-45				
Functions	Audio	De-Embedding				
	Others	EDID emulation, Anti-snow, Connection Reset ^{*3}				
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)				

- ¹ 3D/ARC/HEC/CEC are not supported.
- ² 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.
- ³ 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.

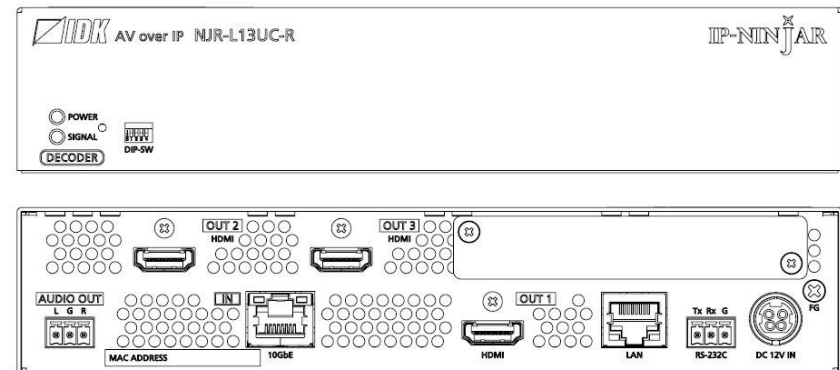
■ Front & Rear Panels
NJR-L13UC-T



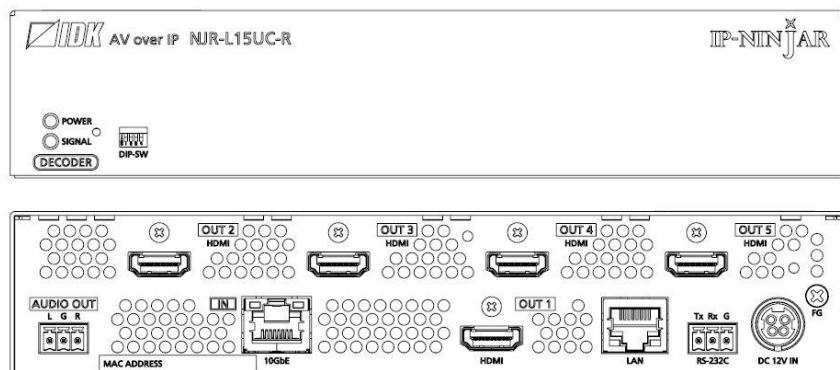
NJR-L15UC-T



NJR-L13UC-R



NJR-L15UC-R



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NJR-L13UC-T/NJR-L15UC-T/NJR-L13UC-R/NJR-L15UC-R Supported video signals

Signal	Resolution	Frame Rate [Hz]	Pixel Clock [MHz]	Color Depth [bits]	INPUT	OUTPUT
					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.