

The NJR-P01UF is an AV over IP solution for high definition signal transmission via fiber optic cables. This 4K solution leverages 10 Gb Ethernet switches and enables signal management of 4K@60 (4:4:4) signals with zero frame latency. USB HID class is also supported for KVM extension application. Additionally, via the NJR-P01UF, the NJR-CTB can be controlled using an IR cable (IR-P01-R) and recommended remote controller. The NJR-P01UF features LAN/RS-232C bidirectional communication.

Use this product with a combination of NJR-P01UF-T and NJR-P01UF-R or IP-NINJAR series products.

■ Specification

Item		NJR-P01UF-T (Encoder)	NJR-P01UF-R (Decoder)
Input		1 input HDMI/DVI 1.0 TMDS single link HDCP 1.4/2.2 HDR (*1) x.v.Color/3D/ARC/HEC/CEC are not supported. EDID emulation Connector: 1 female HDMI Type A (19-pin) Use 16 ft. (5 m) or shorter HDMI cables.	1 input Digital signal for extension Format: IP-NINJAR protocol RS-232C/LAN/USB Connector: 2 LC
	Output	1 output Digital signal for extension Format: IP-NINJAR protocol RS-232C/LAN/USB Connector: 2 LC	1 output HDMI/DVI 1.0 TMDS single link HDCP 1.4/2.2 HDR (*1) x.v.Color/3D/ARC/HEC/CEC are not supported. Connector: 1 female HDMI Type A (19-pin) Use 16 ft. (5 m) or shorter HDMI cables.
Format		VGA / SVGA / XGA / WXGA (1280x768) / WXGA (1280x800) / Quad-VGA / SXGA / WXGA (1366x768) / WXGA (1366x768) / SXGA+ / WXGA+ / WXGA++ / UXGA / WSXGA+ / VESAHD / WUXGA / QWXGA / 4K 480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K For 4K formats, 24 Hz/25 Hz/30 Hz/50Hz (4:4:4)/60 Hz (4:4:4) are supported.	
Color depth		24 bit, 30 bit, 36 bit Deep Color For 4K formats: only 24 bit	
Dot clock		25 MHz to 600 MHz	
TMDS clock		25 MHz to 300 MHz	
TMDS data rate		0.75 Gbps to 18 Gbps	
Digital audio input		Multi-channel LPCM up to 8 channels Sampling frequency: 32 kHz to 192 kHz Sample size: 16 bit to 24 bit	—
Digital audio output		—	Multi-channel LPCM up to 8 channels Sampling frequency: 32 kHz to 192 kHz Sample size: 16 bit to 24 bit
Cable for extension	Cable	Duplex fiber cable SFP+ optical transceiver	
	Transmission distances (*2)	Up to 984 ft. (300 m) (OM3 Multimode fiber), Up to 6.21 mi. (10 km) (OS1 Singlemode fiber)	
Control	RS-232C	1 port/captive screw (3-pin), full duplex, up to 115.2 kbps	
	LAN	1 port/RJ-45 10Base-T/100Base-TX/1000Base-T (Auto Negotiation), Auto MDI/MDI-X	
	USB	1 port/female Type-B (HID class)	2 ports/female Type-A (HID class)
	IR input	1 port/captive screw (3-pin)	
Functions		DDC buffer, Connection Reset (*3)	
General	AC adapter	Input : 100 - 240 VAC ±10%, 50 Hz/60 Hz ±3 Hz Output : DC 12 V 3 A 36.0 W (A dedicated AC adapter is provided)	
	Power consumption	About 8 W	About 10 W
	Dimensions	4.2 (W) × 1.1 (H) × 7.1 (D)* (106 (W) × 28 (H) × 180 (D) mm) (Quarter rack wide, thin type) (Excluding connectors and the like)	
	Weight	1.5 lbs. (0.7 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	Operating/Storage: 20% to 90% (Non Condensing)	

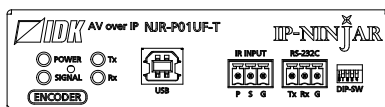
*1 HDR is supported if the connected sink device supports HDR and its copied EDID is set for EDID setting.

*2 Only if the SFP+ optical transceiver sold by IDK is used, signals can be transmitted to the mentioned maximum transmission distance. If using other SFP+ optical transceiver, check the compatible fiber and maximum distance of the SFP+ optical transceiver.

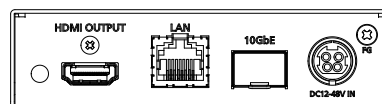
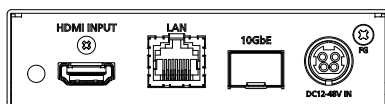
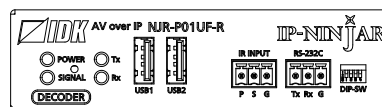
*3 For digital systems, some problems, such as an HDCP authentication error, can often be recovered by physically disconnecting and reconnecting the digital cables. However, the Connection Reset feature will fix these problems automatically without the need to physically plug and unplug the cables. It creates the same condition as if the cable were physically disconnected and reconnected. This feature only works for the NJR-P's output. If other devices are connected between the NJR-P's output and sink device, this feature may be invalid.

■ Front & Rear Panels

NJR-P01UF-T



NJR-P01UF-R



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